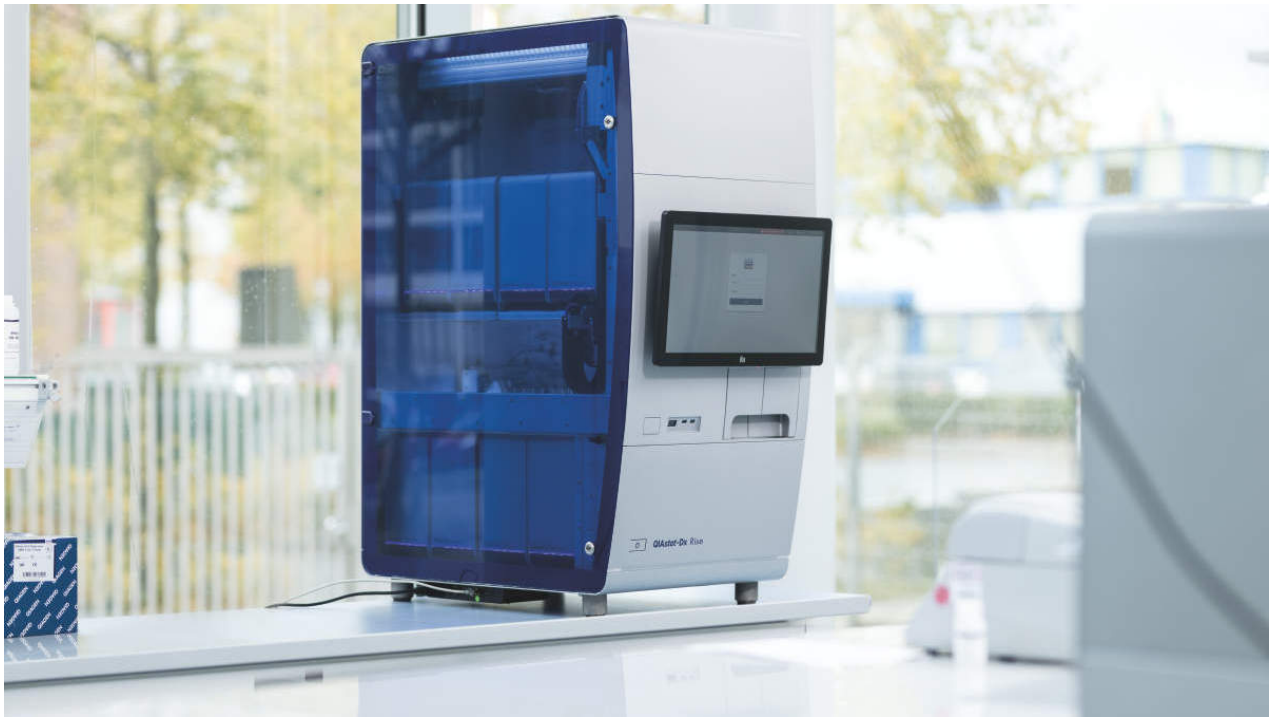
August 2026

QIAstat-Dx® Rise™ User Manual



For use with software version 2.5

IVD For in vitro diagnostic use only

CE

REF 9003163

QIAGEN, GmbH, QIAGEN Strasse 1, 40724 Hilden, GERMANY

R6

Sample to Insight

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1. Introduction

Thank you for choosing the QIAstat-Dx® Rise™.

This manual describes how to operate the QIAstat-Dx Rise with software version 2.5. Before using the QIAstat-Dx Rise, it is essential to read this user manual carefully and pay particular attention to the safety information. The instructions and safety information in the user manual must be followed to ensure safe operation of the instrument and to maintain it in a safe condition.

Note: The figures of the software screens shown in this user manual are only examples and may differ from assay to assay.

1.1. About this user manual

This user manual provides information about the QIAstat-Dx Rise in the following sections:

- Introduction
- Safety Information
- General Description
- Installation Procedures
- Running a Test and Viewing Results
- Operating Procedures
- HIS/LIS Connectivity
- Maintenance
- Troubleshooting
- Technical Specifications
- Appendices
- Document Revision History

The appendices contain the following information:

- License Terms
- License agreements of third-party software
- Waste Electrical and Electronic Equipment (WEEE)
- Glossary
- Ordering Information

1.2. General information

1.2.1. Technical assistance

At QIAGEN®, we pride ourselves on the quality and availability of our technical support. Our Technical Services Departments are staffed by experienced scientists with extensive practical and theoretical expertise in molecular biology and the use of QIAGEN products. If you have any questions or experience any difficulties regarding the QIAstat-Dx Rise or QIAGEN products in general, do not hesitate to contact us.

QIAGEN customers are a major source of information regarding advanced or specialized uses of our products. This information is helpful to other scientists as well as to the researchers at QIAGEN. We therefore encourage you to contact us if you have any suggestions about product performance or new applications and techniques.

For technical assistance, contact QIAGEN Technical Services.

Website: **support.qiagen.com**

When contacting QIAGEN Technical Services about errors, please have the following information ready:

- QIAstat-Dx Rise serial number as provided on the instrument type plate
- Support package
- Error code (if applicable)
- Timepoint when the error occurred for the first time
- Frequency of error occurrence (i.e., intermittent or persistent error)

1.2.2. Policy statement

It is the policy of QIAGEN to improve products as new techniques and components become available. QIAGEN reserves the right to change specifications at any time. In an effort to produce useful and appropriate documentation, we appreciate your comments on this user manual. Please contact QIAGEN Technical Service.

1.3. Intended use of the QIAstat-Dx Rise

The QIAstat-Dx Rise system is intended as an in vitro diagnostic device for use with QIAstat-Dx in vitro diagnostic assays indicated for use with QIAstat-Dx Rise and provides full automation from sample preparation to real-time PCR detection for molecular applications. The system is designed for professional use only and it is not a device for self-testing or near-patient testing.

1.3.1. Limitations of use

- The QIAstat-Dx Rise can only be used in combination with at least two QIAstat-Dx Analytical Modules (AM) processing QIAstat-Dx assay cartridges according to the instructions contained in this user manual and in the QIAstat-Dx assay instructions for use.
- When connecting the QIAstat-Dx Rise, use only the cables supplied with the system.
- Any service or repairs should be performed only by personnel authorized by QIAGEN.

- The QIAstat-Dx Rise should only be operated on a flat, horizontal surface that withstands at least 300 kg with no angles or tilts
- Do not re-run a QIAstat-Dx assay cartridge if it has already been used successfully, or if it has been associated with an error or an incomplete run.
- Allow the following minimum clearance to ensure adequate ventilation:
  - **Left side**: 90 cm (35.4 in)
  - **Top**: 32 cm (12.6 in)
  - **Front**: 150 cm (59 in)
- The QIAstat-Dx Rise can be used in the following environmental conditions:
  - **Temperature**: 15–25°C
  - **Relative humidity**: 20–80%
  - **Altitude**: maximum 2200 m above sea level
- Make sure that the QIAstat-Dx Rise is positioned away from any air conditioning outlets or heat exchangers.
- Do not change the system configuration during a run.
- Do not use the touchscreen to lift or move the QIAstat-Dx Rise.
- Do not lean on the drawers, the display, or the door to avoid tilting of the instrument.
- User must check if all the samples are loaded to AMs after confirming the run.

1.3.2. Requirements for QIAstat-Dx Rise

Table 1 covers the general level of competence and training necessary for transportation, installation, use, maintenance, and servicing of the QIAstat-Dx Rise.

Table 1. Level of expertise required to perform tasks

Task	Personnel	Training and experience
Delivery	Carrier	Professional carrier, experienced with transportation of heavy equipment
Installation	QIAGEN field service specialists only	Trained and authorized by QIAGEN
Routine use and maintenance	Laboratory technicians or equivalent	Appropriately trained and experienced personnel familiar with use of computers and automation in general
Servicing and annual maintenance	QIAGEN field service specialists only	Trained and authorized by QIAGEN

1.4. Materials provided

- Power cord
- Door key

Note: Only use accessories supplied by QIAGEN.

1.5. Materials required but not provided

- Ethernet cable
- USB storage device (USB 3.0 with 64 GB memory capacity and exFAT file system format and 64 GB memory capacity is recommended)

2. Safety Information

Before using the QIAstat-Dx Rise, it is essential that you read this user manual carefully and pay particular attention to the safety information. The instructions and safety information in the user manual must be followed to ensure safe operation of the instrument and to maintain the instrument in a safe condition.

The following types of safety information appear throughout the *QIAstat-Dx Rise User Manual*.

WARNING



The term **WARNING** is used to inform you about situations that could result in **personal injury** to you or other persons.

Details about these circumstances are given in a box like this one.

CAUTION



The term **CAUTION** is used to inform you about situations that could result in **damage to an instrument** or other equipment.

Details about these circumstances are given in a box like this one.

Note The term **Note** is used for information that explains or clarifies a specific case or task.

Important The term **Important** is used to highlight information that is critical for the completion of a task or optimal performance of the system.

The guidance provided in this manual is intended to supplement, not supersede the normal safety requirements prevailing in the user's country.

Please be aware that you may be required to consult your local regulations for reporting serious incidents that have occurred in relation to the device to the manufacturer and/or its authorized representative and the regulatory authority in which the user and/or the patient is established.

2.1. Proper use

Perform the maintenance as described in Section 8 Maintenance. QIAGEN charges for repairs that are required due to incorrect maintenance.

WARNING **Risk of personal injury and material damage**



The QIAstat-Dx Rise is too heavy to be lifted by one person. To avoid personal injury or damage to the instrument, do not lift the instrument alone. Contact QIAGEN Technical Services to relocate the instrument.

WARNING **Risk of personal injury and material damage**



Improper use of the QIAstat-Dx Rise may cause personal injuries or damage to the instrument. The QIAstat-Dx Rise must only be operated by qualified personnel who have been appropriately trained. Servicing of the QIAstat-Dx Rise must only be performed by a QIAGEN field service specialist.

WARNING **Risk of personal injury and material damage**



Do not attempt to move the QIAstat-Dx Rise during operation.

WARNING **Risk of personal injury and material damage**



Do not lean on the drawers of the QIAstat-Dx Rise. This may cause tilting of the instrument.

CAUTION **Damage to the instrument**



Avoid spilling water or chemicals onto the QIAstat-Dx Rise. Instrument damage caused by water or chemical spillage will void your warranty.

CAUTION **Risk of material damage**



Do not place any items on top of the instrument.

In case of emergency, power **OFF** the QIAstat-Dx Rise using the power switch at the rear connection box on the left side of the instrument.

Note: This will shut down the instrument immediately and result in sample and data loss. Sample and data loss can result from power failures as well.

CAUTION **Damage to the instrument**



Only use QIAstat-Dx cartridges as described in the respective assay handbook with the QIAstat-Dx Rise. Damage caused by use of other types of consumables will void your warranty.

CAUTION **Risk of material damage**



Do not place the QIAstat-Dx Rise close to prototype instruments. Effects like electromagnetic emissions, vibration, and heat may cause the instrument to fail, resulting in damage or data or material loss.

WARNING **Explosive atmosphere**



QIAstat-Dx Rise is not designed for use in an explosive atmosphere.

CAUTION **Interference with direct sunlight**



Direct sunlight may interfere with optical modules inside the instrument. The QIAstat-Dx Rise must not be placed in direct sunlight.

2.2. Electrical safety

Disconnect the line power cord from the power outlet before servicing.

WARNING **Electrical hazard**



Any interruption of the protective conductor (earth/ground lead) inside or outside the instrument or disconnection of the protective conductor terminal is likely to make the instrument dangerous.

Intentional interruption is prohibited.

WARNING **Lethal voltages inside the instrument**



When the instrument is connected to line power, terminals may be live and opening covers or removing parts is likely to expose live parts.

CAUTION **Damage to electronics**



Before powering ON the instrument, make sure that the correct supply voltage is used.

Use of incorrect supply voltage may damage the electronics.

To check the recommended supply voltage, refer to the specifications indicated in the type plate of the instrument.

WARNING **Risk of electric shock**



Do not open the instrument cover or any service flap on the QIAstat-Dx Rise.

WARNING **Risk of personal injury and material damage**



Only perform maintenance that is specifically described in this user manual.

To ensure satisfactory and safe operation of the QIAstat-Dx Rise, follow the advice below:

- The line power cord must be connected to a line power outlet that has a protective conductor (earth/ground).
- Place instrument in a location so that the power cord is accessible and can be connected/disconnected.
- Use only the power cord delivered by QIAGEN.
- Do not adjust or replace internal parts of the instrument.
- Do not operate the instrument with any covers or parts removed.
- If liquid has spilled inside the instrument, switch off the instrument, disconnect it from the power outlet and contact QIAGEN Technical Service.
- If the instrument becomes electrically unsafe, prevent other personnel from operating it and contact QIAGEN Technical Service.

The instrument may be electrically unsafe when:

- It or the line power cord appears to be damaged.
- It has been stored under unfavorable conditions for a prolonged period.
- It has been subjected to severe transport stresses.

2.3. Biological safety

The QIAstat-Dx Rise, Analytical Modules, and cartridges do not themselves contain biohazardous materials. However, samples and reagents containing materials from biological sources should generally be handled and disposed of as potentially biohazardous. Use safe laboratory procedures as outlined in publications such as B*iosafety in Microbiological and Biomedical Laboratories*, from the Centers for Disease Control and Prevention and the National Institutes of Health.

Samples tested on the QIAstat-Dx Rise may contain infectious agents. Users should be aware of the health hazard presented by such agents and should use, store, and dispose of such samples according to the required safety regulations. Wear personal protective equipment and disposable powder-free gloves when handling reagents or samples and wash hands thoroughly thereafter.

Avoid contamination of the QIAstat-Dx Rise and workspace by handling samples and QIAstat-Dx assay cartridges with care. In the event of contamination (e.g., a leak from a cartridge), clean and decontaminate the affected area and the instrument as described in Section 8.3.

WARNING **Biological hazard**



Use caution when loading or removing QIAstat-Dx assay cartridges containing infectious samples into or from the QIAstat-Dx Rise. A break in the cartridge could contaminate the QIAstat-Dx Rise and the surrounding area.

All QIAstat-Dx assay cartridges should always be handled as if they contain potentially infectious agents.

CAUTION **Risk of contamination**



Contain and clean contamination from a broken or visibly damaged QIAstat-Dx assay cartridge immediately. Contents, though not infectious, can be spread by normal activity and may contaminate further analytical results, leading to false positives.

For instructions on cleaning and decontaminating the QIAstat-Dx Rise, refer to the respective sections in this user manual.

Always observe safety precautions as outlined in relevant guidelines, such as the Clinical and Laboratory Standards Institute® (CLSI) *Protection of Laboratory Workers from Occupationally Acquired Infections, Approved Guidelines* (M29), or other appropriate documents provided by:

- OSHA®: Occupational Safety and Health Administration (United States of America)
- ACGIH®: American Conference of Government Industrial Hygienists (United States of America)
- COSHH: Control of Substances Hazardous to Health (United Kingdom)

2.4. Chemicals

Used QIAstat-Dx assay cartridges and plasticware may contain hazardous chemicals or infectious agents. Such waste must be collected and disposed of properly in accordance with all national, state, and local health and safety regulations and laws.

For disposal of waste electrical and electronic equipment (WEEE), see Appendix A.

WARNING **Hazardous chemicals**



Chemicals may leak from the cartridge in the event that the cartridge housing is damaged. Some chemicals used in QIAstat-Dx assay cartridges may be hazardous or may become hazardous. Always wear eye protection, gloves, and a lab coat.

CAUTION **Damage to the instrument**



Avoid spilling water or chemicals onto the QIAstat-Dx Rise. Instrument damage caused by water or chemical spillage will void your warranty.

2.5. Waste disposal

Used QIAstat-Dx assay cartridges and plasticware may contain hazardous chemicals or infectious agents. Such waste must be collected and disposed of properly in accordance with all national, state, and local health and safety regulations and laws.

Waste drawer must be checked regularly for spilled liquids and cleaned as described in the Section 8 Maintenance.

For more information about how to dispose of the QIAstat-Dx Rise, see "Waste Electrical and Electronic Equipment (WEEE)".

WARNING **Hazardous chemicals and infectious agents**



The waste contains samples and reagents. This waste may contain toxic or infectious material and must be disposed of properly. Refer to your local safety regulations for proper disposal procedures.

2.6. Mechanical hazards

The side door of the QIAstat-Dx Rise must remain closed during operation of the instrument. Only handle the input and waste drawer when they have been released by the system. Ensure to only operate the system with both the input and the waste tray inserted into their respective drawer positions.

WARNING **Biological hazard**



To avoid contact with moving parts during operation of the QIAstat-Dx Rise, the instrument must be operated with the door closed. Only open the side door when instructed by the instrument. In the unlikely event that manual recovery of the instrument is required, carefully follow the instructions provided on the graphical user interface of the instrument.

If the door sensor is not functioning correctly, contact QIAGEN Technical Service.

WARNING **Closing drawers**



To avoid jamming operators' finger between drawer and display, use only the handles to close the waste and input drawers.

WARNING **Risk of overheating**



To ensure proper ventilation, maintain the following minimum clearance:

- Left side: 90 cm (35.4 in)
- Top 32 cm, (12.6 in)
- Front 150 cm (59 in)

Slits and openings that ensure the ventilation of the QIAstat-Dx Rise must not be covered.

2.7. Electromagnetic safety information (Electromagnetic compatibility; EMC)

Note: Please refer to the technical description for EMC available at **www.qiagen.com** for details about the emission and immunity test levels, description of essential performance, and EMC basic standards fulfilled.

CAUTION **Risk of data and material loss**



Electromagnetic (EM) disturbances might cause the instrument or the Analytical Module (AM) to fail resulting in data loss and/or loss of the sample.

CAUTION **Electromagnetic interference**



Do not place or use the QIAstat-Dx Rise in close proximity of sources of strong electromagnetic radiation (e.g., unshielded intentional RF sources), as these can interfere with proper operation.

CAUTION **Risk of data and material loss**



Do not expose the instrument to strong magnetic fields.

Magnetic fields can affect the unit by triggering the sensors on the drawers or the side door without cause, thus stopping the robotic arm's movements. This may trigger sample and data loss. However, operator safety is not affected.

CAUTION **Risk of data and material loss**



Do not use any other power cable than the one supplied with the instrument. In case of damage or loss contact QIAGEN service for a replacement.

Other cables might negatively affect the electromagnetic compatibility (EMC) performance of the instrument.

CAUTION **Risk of data and material loss**



Do not use portable radio frequency communications equipment (including antennas) closer than 30 cm (12 in.) to any part of the QIAstat-Dx Rise – including cables specified by QIAGEN.

CAUTION **Risk of electromagnetic emission**



QIAstat-Dx Rise uses (radiofrequency) (RF) energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.

CAUTION **Risk of electromagnetic emission**



QIAstat-Dx Rise suitable for use in all establishments including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

CAUTION **Risk of electromagnetic immunity**



Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.

CAUTION **Risk of electromagnetic immunity**



The signal lines (e.g., Ethernet) must not be longer than 30 m in order to avoid impairments due to surge voltages.

CAUTION **Risk of electromagnetic immunity**



If the user of QIAstat-Dx Rise requires continued operation during power mains interruptions, it is recommended that the product is powered from an un-interruptible power supply or a battery. UT is the a. c. mains voltage prior to application of the test level.

CAUTION **Risk of electromagnetic immunity**



Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

2.8. Maintenance safety

WARNING **Risk of personal injury and material damage**



Only perform maintenance that is specifically described in this user manual.

WARNING **Risk of fire**



When cleaning the QIAstat-Dx Rise with alcohol-based disinfectant, leave the QIAstat-Dx Rise door open to allow flammable vapors to disperse. For the plastic door, use only distilled water and mild detergents without alcohol.

CAUTION **Damage to the instrument**



Do not use bleach, solvents, or reagents containing acids, alkalis, or abrasives to clean the QIAstat-Dx Rise.

2.9. Data security

Note: It is strongly recommended to create a support package and archive it according to your organization's policy for the availability of data and the protection of data from loss. The support package contains the database and can be restored by a QIAGEN Service Technician in the event of data loss on the QIAstat-Dx Rise instrument. For creation of a support package refer to Section 5.8 Creating a support package.

USB storage devices should preferably be used for short term data storage and general data transfer (e.g., saving support package and test results, file imports).

Note: The use of a USB storage device is subject to restrictions (e.g., the memory capacity or the risk of overwriting, which should be considered before usage.) It is recommended to use USB 3.0 with 64 GB memory capacity and exFAT file system format to decrease the transfer time of files to and from the storage device.

For long-term data security, follow your organization's data storage and security policies for credential retention.

2.10. Cybersecurity

It is highly recommended to follow the cybersecurity recommendations listed below when using the QIAstat-Dx Rise:

- Operate the QIAstat-Dx Rise in a secured environment and secured network.
- The support package contains a database backup. Extract the support package in regular intervals and keep them at a secure, ideally offline storage. For information on how to create a support package, refer to Section 5.8.
- Always ensure that you use a malware-free USB storage device.
- Use personal user accounts for the QIAstat-Dx Rise and follow the principle of least privileges (Assigning an account to a user according to their work profile). For more information about User management, refer to Section 6.3.5 User management.
- Follow the policy of your organization regarding setting-up complex passwords and the frequency when they are changed.
- All users are recommended to log out manually. By default, automatic logout is set to occur after 30 minutes. For more information regarding logging out of QIAstat-Dx Rise,, refer to Section 6.2.2.
- Do not use freely editable fields to enter personal information or protected health information.
- Events related to Cybersecurity are recorded in the System Log.
- In case you suspect that your QIAstat-Dx Rise security may have been compromised, please immediately inform your IT or Cybersecurity department and follow local guidance. Such guidance may vary greatly, depending on local priorities and could include disconnecting the device from the network, shutting down the device, or leaving the device untouched and getting a local response team to investigate. In addition, please inform your QIAGEN Technical Service representative as soon as possible for further guidance and support.

Patches for the QIAstat-Dx Rise are part of the regular system update. They contain updates and vulnerability remediation for the application software and the underlying operating system. These updates undergo the established verification and validation process according to QIAGEN's global quality management system.

Customers are informed when updates, including cybersecurity patches, are available. System updates will be provided and installed by QIAGEN Technical Service.

In addition, *QIAstat-Dx Rise Security and Privacy Guide* will help you safely and securely install, configure, operate, and maintain your instrument in compliance with data protection regulations. The *QIAstat-Dx Rise Security and Privacy Guide* is available on **www.qiagen.com**.

2.11. Symbols on the QIAstat-Dx Rise

Symbol	Location	Description
	Type plate on the instrument	Mechanical hazard – avoid contact with moving parts.

Symbol	Location	Description
	Type plate on the instrument	WEEE about the disposal of waste electrical and electronic equipment for Europe and rest of the world.
	Type plate on the instrument	Legal manufacturer.
	Type plate on the instrument	Consult instructions for use
	Type plate on the instrument	CE mark for Europe
	Type plate on the instrument	RCM (former C-Tick) for Australia (supplier identification N17965)
	Type plate on the instrument	Instrument serial number
	Type plate on the instrument	In vitro diagnostic medical device
	Type plate on the instrument	TÜV mark of the TÜV SÜD Product Service for testing
	Type plate on the instrument	Unique Device Identifier
	Type plate on the instrument	Date of manufacturing
	Type plate on the instrument	Catalog number

3. General Description

3.1. System description

The QIAstat-Dx Rise is a diagnostic system leveraging molecular capabilities based on fluorescence techniques providing clinical results.

It works only in combination with QIAstat-Dx assay cartridges and uses real-time PCR to detect pathogen nucleic acids in human biological samples. The QIAstat-Dx Rise and cartridges are designed as a closed system that enables hands-off sample preparation followed by detection and identification of pathogen nucleic acids. Samples are inserted into a QIAstat-Dx assay cartridge that contains all reagents necessary to isolate and amplify nucleic acids from the sample. Detected real-time amplification signals are interpreted by the integrated software and are reported via an intuitive user interface.

3.2. QIAstat-Dx Rise description

The QIAstat-Dx Rise is a regular bench-top usage increased throughput system that incorporates up to 8 QIAstat-Dx Analytical Modules on a small footprint and is designed to process up to 128 cartridges/day (may vary depending on the assay type). The instrument enables queuing of up to 18 cartridges scheduled for processing and loaded into an AM by an integrated robotic arm.

The QIAstat-Dx Rise includes the following elements:

- Touchscreen for user interaction
- Barcode reader for sample and QIAstat-Dx assay cartridge identification
- USB ports for assay and system upgrades
- Input drawer for inserting QIAstat-Dx assay cartridges into the QIAstat-Dx Rise
- Waste drawer for wasting QIAstat-Dx assay cartridges after ejected from an Analytical Module (AM)
- Module Ethernet connector for network connectivity

3.3. QIAstat-Dx Rise workflow

After the cartridge is prepared (sample is loaded and a unique sample ID barcode is applied) and loaded into the input drawer, the system calculates the queue. Next, the user confirms the queue and the QIAstat-Dx Rise automatically performs the following steps:

- Picking up the cartridge from the input tray
- Scanning of the cartridge in the scan station and loading it into the Analytical Module (AM) via a robotic arm
- Processing the cartridge in the AM
- Removal of the cartridge from the AM and transferring it to the waste drawer via robotic arm when the test is completed
- Providing a test result

During the run, users can open the input drawer and load new cartridges for continuous loading.

3.4. QIAstat-Dx assay cartridge description

The QIAstat-Dx assay cartridge is a disposable plastic device that enables performance of fully automated molecular assays. The main features of the QIAstat-Dx assay cartridge include compatibility with various sample types (e.g., fluids or swabs) and hermetic containment of all preloaded reagents necessary for testing and true walk-away operation. All sample preparation and assay testing steps are performed within the QIAstat-Dx assay cartridge as described in the respective assay handbook.

All reagents required for the complete execution of a test run are pre-loaded and self-contained in the QIAstat-Dx assay cartridge. The user does not need to come in contact with and/or manipulate any reagents. During the test, reagents are handled in the Analytical Module (AM) by pneumatically operated microfluidics and make no direct contact with the QIAstat-Dx Rise.

The QIAstat-Dx Rise houses air filters for incoming air, further safeguarding the environment. After testing, the QIAstat-Dx assay cartridge stays hermetically closed at all times, greatly enhancing its safe disposal.

Within the QIAstat-Dx assay cartridge, multiple steps are automatically performed in sequence using pneumatic pressure to transfer samples and fluids via the transfer chamber to their intended destinations. After the QIAstat-Dx assay cartridge is introduced into an AM with the QIAstat-Dx Rise via a robotic arm, the following assay steps occur automatically:

Execution of the protocol, including:

- Resuspension of internal control
- Cell lysis using mechanical and/or chemical means
- Membrane-based nucleic acid purification
- Mixing of the purified nucleic acid with lyophilized master mix reagents
- Transfer of defined aliquots of eluate/master mix to different reaction chambers
- Performance of real-time, multiplex PCR testing within each reaction chamber. An increase in fluorescence, indicating presence of the target analyte, is detected directly within each reaction chamber.

The general layout of the cartridge and its features are illustrated in Figure 1. This is only a general description of the cartridge, please refer to the respective assay instructions for use for a detailed description of functions and how to prepare and load the samples.

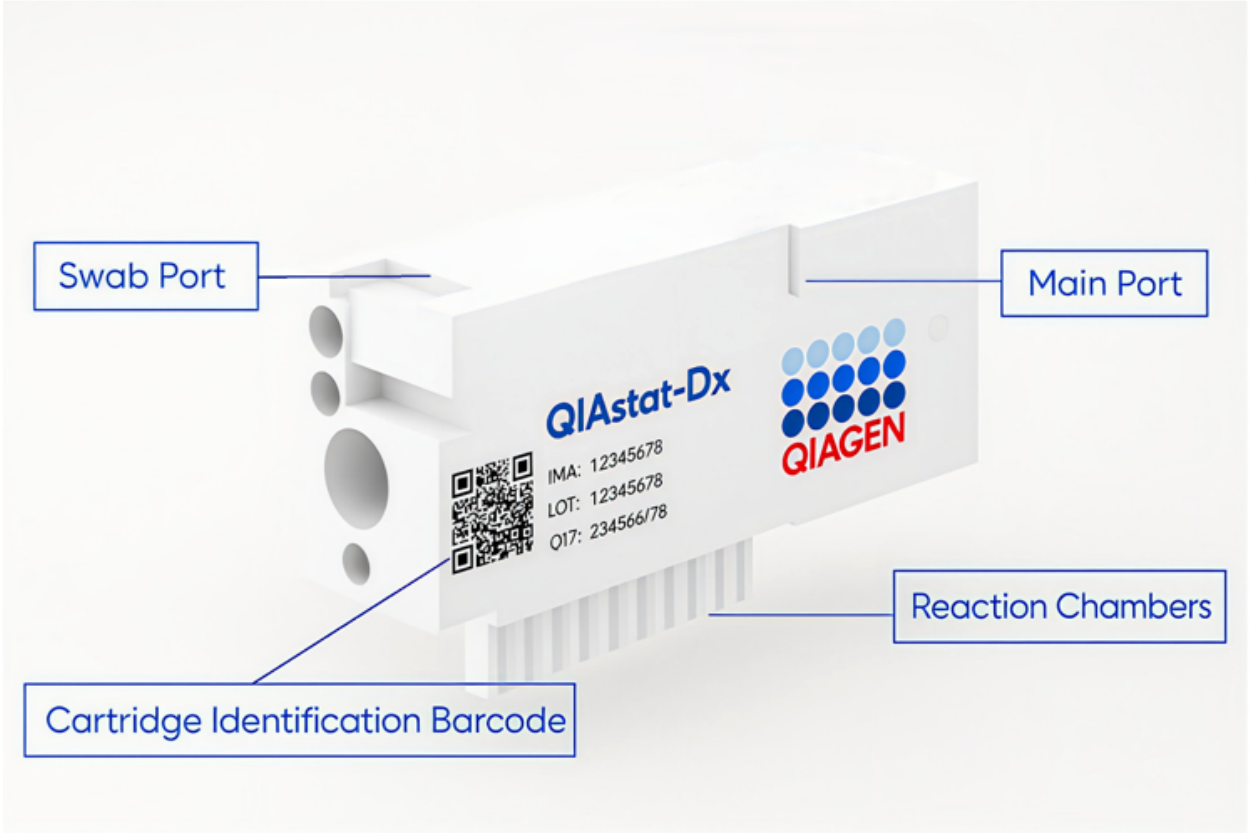


Figure 1. QIAstat-Dx assay cartridge features.

3.5. QIAstat-Dx Rise application software

The QIAstat-Dx application software (SW) is pre-installed on the system. This manual describes the software version 2.5 only.

It implements 3 main groups of functionalities:

- General operation functions allow easy setup, execution, and visualization of a test and its associated results
- Configuration functions allow configuration of the system (user management, HIS/LIS settings, and hardware/software configuration management)
- Test execution control to perform necessary automated analytical steps that comprise a test execution

3.6. External features of the QIAstat-Dx Rise

Instrument view:



Figure 2. QIAstat-Dx Rise features.

1	Upper service flap	5	Lower service flap
2	Display	6	LED status indicator
3	Input drawer	7	Side door
4	Waste drawer		

Rear connection box:



Figure 3. QIAstat-Dx Rise side connection box.

1	Connection to power cable	**3**	Two ethernet ports	(use left port for internet connection labeled as **www**)
2	Power switch	**4**	Two USB ports	

3.7. Internal features of the QIAstat-Dx Rise

Internal view:

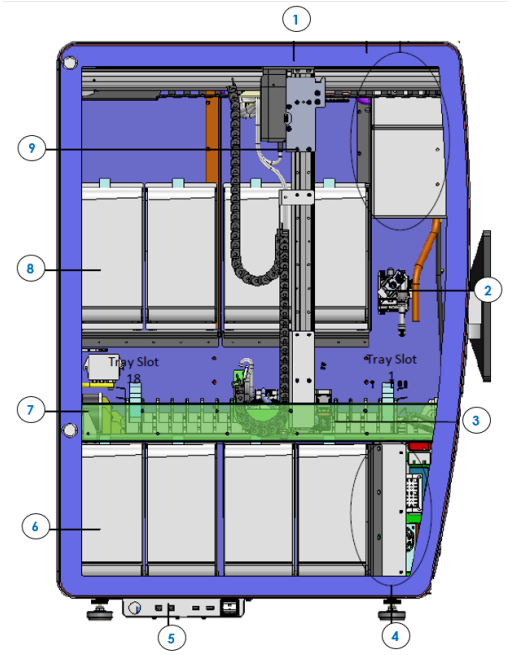


Figure 4. Internal view of the QIAstat-Dx Rise.

1	Main fan	**6**	Analytical Module (AM in position 4)
2	Scan station	**7**	Input and waste drawer magnetic locks
3	Input and waste drawer	**8**	Analytical Module (AM in position 8)
4	Lower electronic cabinet	**9**	Robotic arm
5	Side connection box		

4. Installation Procedures

4.1. System delivery and installation

The unpacking and installation of the QIAstat-Dx Rise is performed by a certified QIAGEN field service specialist. A person who is familiar with your laboratory and computer equipment should be present during the installation.

The following items are delivered:

- QIAstat-Dx Rise
- QIAstat-Dx Rise software (will be installed by QIAGEN field service specialist during initial set up)

An ethernet cable is required to connect the QIAstat-Dx Rise to your local network (not provided). Up to 8 Analytical Modules (AM) are required to operate the QIAstat-Dx Rise (not provided). Additionally, the QIAstat-Dx Rise requires a minimum of 2 installed Analytical Modules (AMs) to operate, as defined in the instrument's system configuration and limitations of use.

4.2. Site requirements

Select a flat, dry, and clean workbench space for the QIAstat-Dx Rise. Make sure that the space is free of excessive drafts, moisture, and dust, as well as protected from direct sunlight, large temperature fluctuations, heat sources, vibration, and electrical interference.

Note: The QIAstat-Dx Rise is heavy. The total weight including 8 Analytical Modules (AM) is approximately 260 kg (573 lbs). Please ensure that the workbench supports at least 300 kg (661 lbs). Refer to Section 10.1 Environmental conditions – operating conditions for the weight and dimensions of the QIAstat-Dx Rise and the correct operating conditions (temperature and humidity). The QIAstat-Dx Rise should have sufficient clearance on all sides to enable proper ventilation and to allow unimpeded access to the input and the waste drawer, the side of the QIAstat-Dx Rise, the power switch at the side connection box, the ON/OFF button at the front, the barcode reader, the Analytical Modules, and the touchscreen. The side door must be opened in a 90-degree angle for installation and troubleshooting purposes.

Note: Space of 1.5 m (59in) is required for installation, service interventions, and troubleshooting in front of the instrument and the left side of the instrument.

For more details regarding the site requirements and safety information, refer to Section 2 Safety Information.

4.3. Unpacking and installing the QIAstat-Dx Rise

Unpacking and installation of the QIAstat-Dx Rise shall only be performed by a qualified QIAGEN field service engineer. Do not install the system on your own.

4.3.1. Software upgrade

If necessary, software updates will be done during the installation procedure. Contact QIAGEN Technical Service at **support.qiagen.com** for future software updates.

4.4. Repacking and shipping the QIAstat-Dx Rise

Repacking of the QIAstat-Dx Rise shall only be performed by a qualified QIAGEN field service engineer. Do not repack the system on your own.

When repacking the QIAstat-Dx Rise for shipping, the original packaging materials must be used. If the original packaging materials are not available, contact QIAGEN Technical Service.

Make sure that the instrument has been properly prepared prior to packing and that it poses no biological or chemical hazard. For more information, refer to Section 8 Maintenance.

4.5. Initial start-up of QIAstat-Dx Rise

1. First, make sure the power switch at the side of the connection box of the instrument must be set in the "I" position (Figure 3). Then press the **ON/OFF** button on the front of the QIAstat-Dx Rise to start the unit (Figure 5).



Figure 5. ON/OFF button on the QIAstat-Dx Rise.

2. After successful initial installation of the QIAstat-Dx Rise, the system administrator needs to create a password for the default administrator (Figure 6). Press **CREATE PASSWORD** on the upper right of the screen and create a password according to the password requirements shown in Figure 7. The password can be changed after log-in as described in Section 6.3.6 Change password.

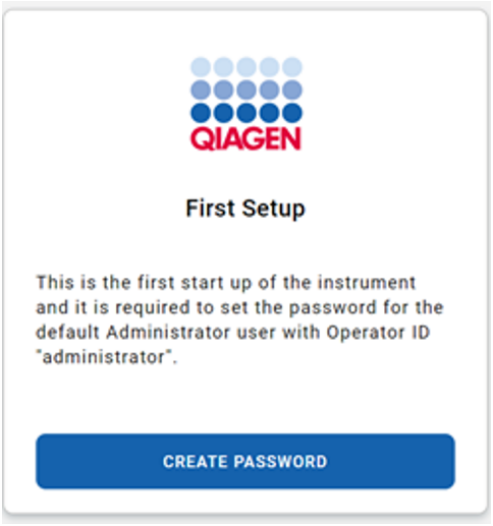


Figure 6. First Setup screen.

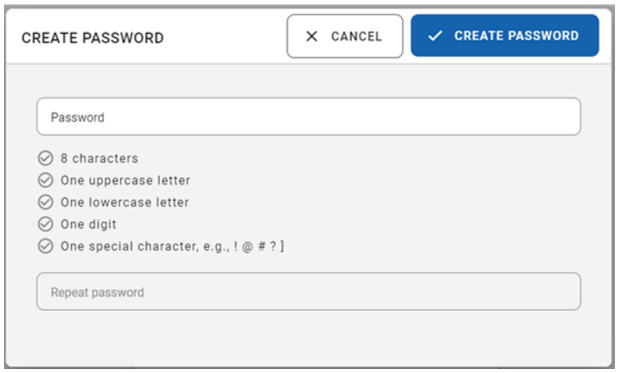


Figure 7. Create password screen.

Note: The password for the operator ID "**administrator**" must not be forgotten.

Note: Follow your organization's cybersecurity policies for credential custody.

Note: It is recommended to use a strong password following your organization's password policies and minimum requirements of the application described in Section 6.3.6 Change password.

Note: All users are recommended to log out manually. By default, automatic logout is set to occur after 30 minutes.

3. After creating the password, log in to the system once the LOGIN screen appears (Figure 8).

   Note: Wrong/invalid login credentials are indicated by this error message below the input fields: `The Operator ID or password are incorrect`. The login button will be disabled until further modification of any of the input fields. After 5 consecutive login attempts with the wrong password, the account is locked preventing any login. The account can be unlocked by an administrator according to using the edit user dialog box to generate a new password described in Section 6.3.5 User management.

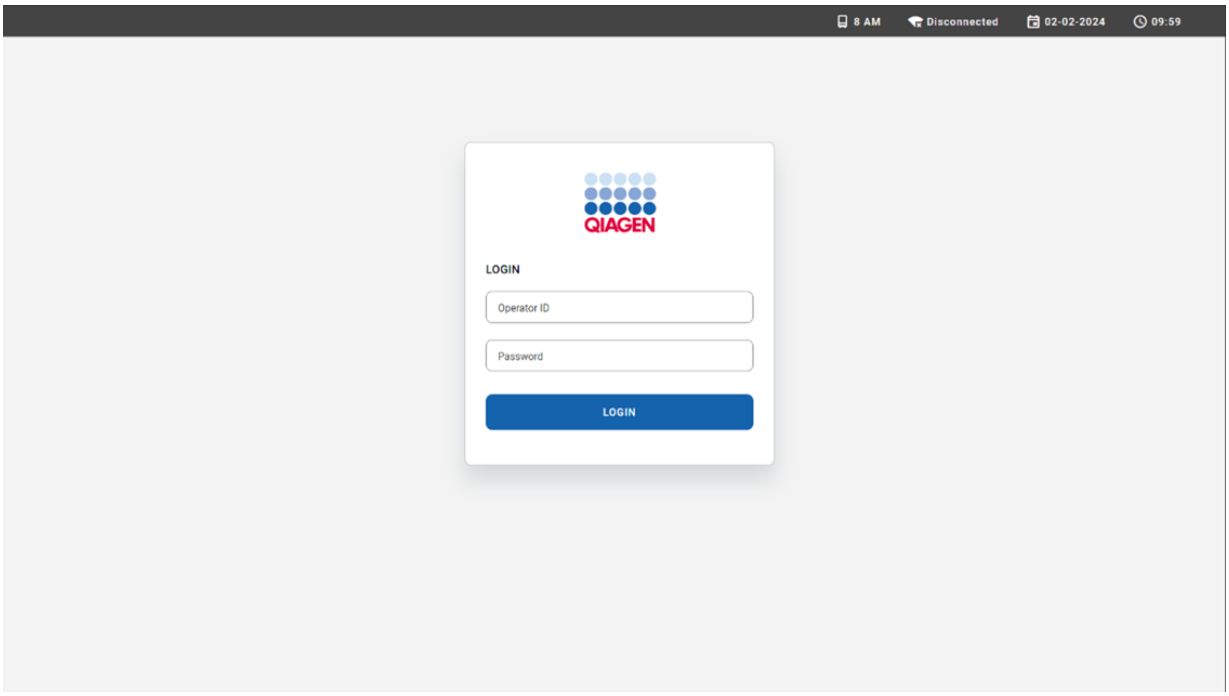


Figure 8. Login screen.

5. Running a Test and Viewing Results

5.1. Preparing the QIAstat-Dx assay cartridge

Remove the QIAstat-Dx assay cartridge from its packaging. For details about adding the sample to the QIAstat-Dx assay cartridge and for information specific to the assay to be run, refer to the instructions for use for the specific assay. If you use a swab for the sample, make sure it reaches the readable region (it needs to reach the bottom of the swab port).

Always make sure that both sample lids are firmly closed after adding a sample to the QIAstat-Dx assay cartridge.

Important: Follow the assay instructions for the maximum time allowed before the cartridge is loaded to the QIAstat-Dx Rise instrument.

5.1.1. Adding a sample barcode to the QIAstat-Dx cartridge

Place a barcode on the top right side of the QIAstat-Dx cartridge indicated by the arrow (Figure 9).

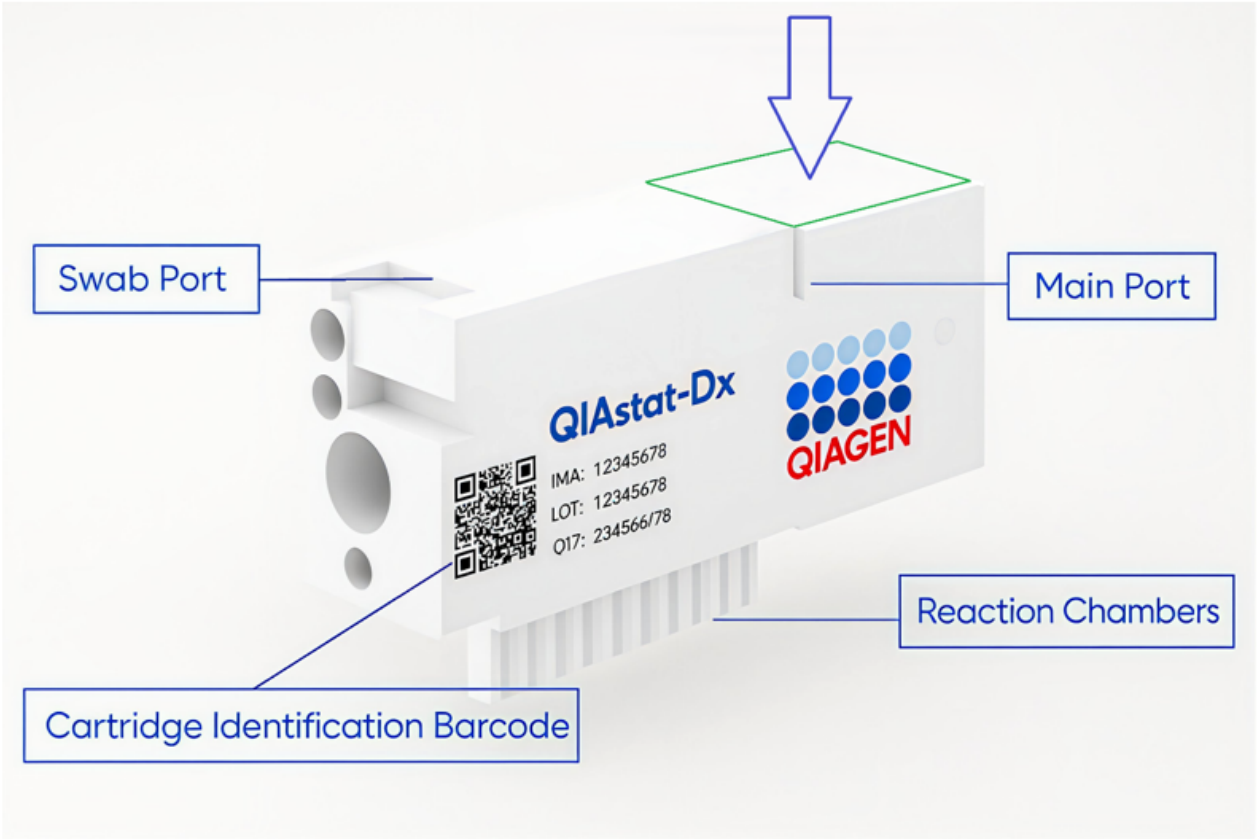


Figure 9. Placing sample ID barcode.

Important: To process samples on the QIAstat-Dx Rise, it is required to provide a machine-readable sample ID barcode on the QIAstat-Dx cartridge. The sample ID barcode should not contain any special characters or non-ASCII symbols. The maximum barcode size is 22 mm × 35 mm (0.87 in × 1.38 in).

Important: The barcode must always be on the right side of the cartridge when looking at it from the side of the label (as it is shown in the figure with blue marked area). The barcode label must not be placed beyond 35 mm (1.38 in) from the right side of the cartridge (Figure 10).

Important: Please keep the left side of the cartridge clear in order not to inhibit sample autodetection.

Note: Sample ID may not contain any of the following characters: \&~|^ and may not be longer than 80 valid characters.

Important: Do not use the same sample ID for different sample type and assay type otherwise the system may not process the sample correctly.

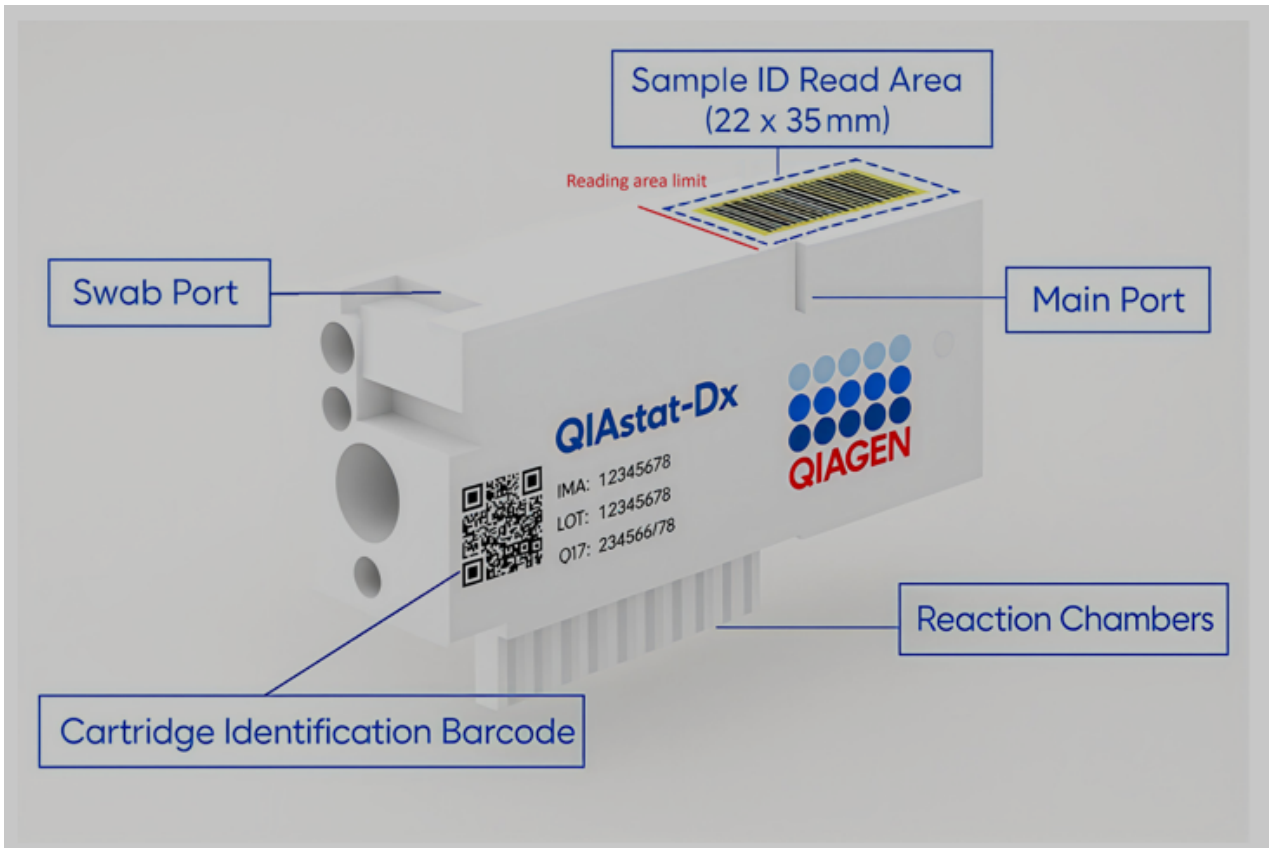


Figure 10. Positioning sample ID barcode.

For QIAstat-Dx Rise, 1D and 2D barcodes can be used. Usable 1D barcodes are the following: EAN-13 and EAN-8, UPC-A and UPC-E, Code128, Code39, Code 93, and Codabar. Usable 2D barcodes are Aztec Code, Data Matrix, and QR code. QIAstat-Dx Rise do not support GS1 barcodes.

Make sure that the barcode quality is sufficient. The system is capable of reading a printing quality of grade C or better, as defined in ISO/IEC 15416 (linear) or ISO/IEC 15415 (2D).

If the system reports barcode scanning errors (e.g., sample ID is not readable), ensure that the barcode position and size are correct and improve the quality of the barcode. The cartridge can be reloaded if it is within the onboard stability time.

5.2. Procedure to run a test

All operators should wear appropriate personal protective equipment, such as gloves, lab coat, and protective glasses when handling the QIAstat-Dx Rise touchscreen and cartridges.

To run a test, start the instrument, log in and wait for initialization to complete.

When initialization is complete, please check the following:

- The QIAstat-Dx Rise is correctly initialized.
- All installed Analytical Modules (AM) are shown as "Ready" in the main tab.
- The connectivity is available. (In case the instrument is installed in an internet connectivity environment, so ethernet is connected)
- The HIS/LIS Settings are available. (In case the instrument is installed in a HIS/LIS connectivity environment)
- Assay Definition File (ADF) is available.
- Check if time and date settings are correct.
- Check if patient ID is activated (If the use of patient ID is preferred, it must be enabled in the **SETTINGS** menu. Go to **SETTINGS** > **General Settings** > **TEST SETTINGS** > **Require Patient ID** and tap **EDIT**. Select **Require Patient ID** and press **SAVE** (see Section 6.3.2 General settings).

To run a test, follow the steps below:

1. Press **OPEN WASTE DRAWER** at the lower right corner of the main test screen to open the waste drawer (Figure 11). Check for the following conditions and remove used cartridges from previous runs. Check the waste drawer for spilled liquids. If necessary, clean the waste drawer.
    - Remove used cartridges from previous runs.
    - Inspect the waste drawer for any spilled liquids and clean as described in Section 8 Maintenance.
2. Close the waste drawer. The system will scan the tray and return to the main screen. If the waste tray was removed for maintenance purposes, make sure it is correctly inserted before closing the drawer.
3. Press **OPEN INPUT DRAWER** at the lower right corner of the main test screen (Figure 11).

    Note: The **OPEN INPUT DRAWER** button is only active when the system is initialized and there is at least one available AM.

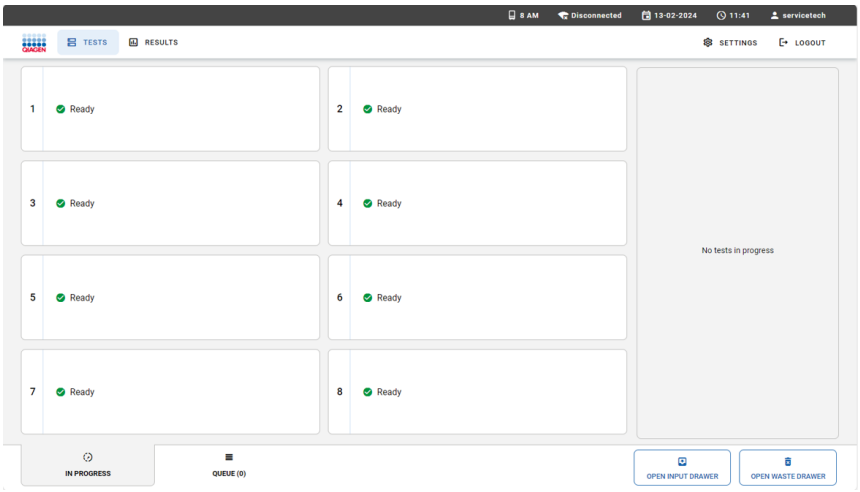


Figure 11. Main test screen.

4. Wait until the input drawer is unlocked (Figure 12).

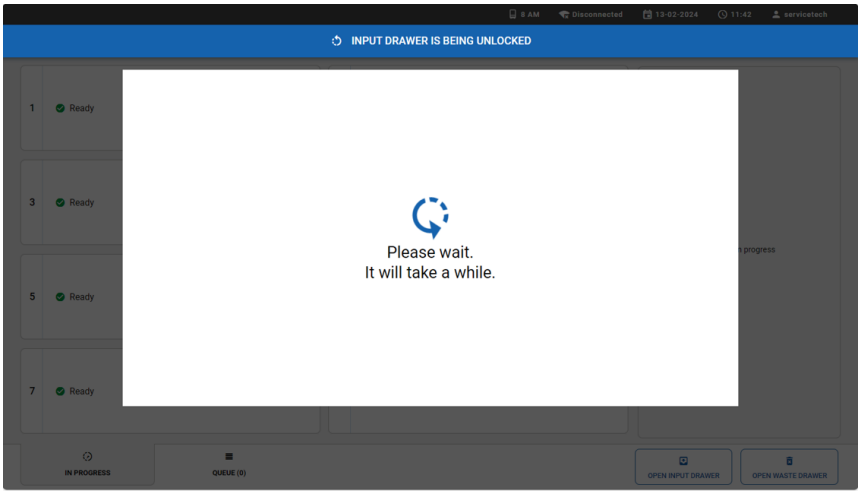


Figure 12. Input drawer waiting dialog box.

5. When prompted, pull the input drawer to open (Figure 13). Depending on instrument status it can take a moment for the drawer to unlock. Note that the input drawer will be automatically locked if no interaction is performed.

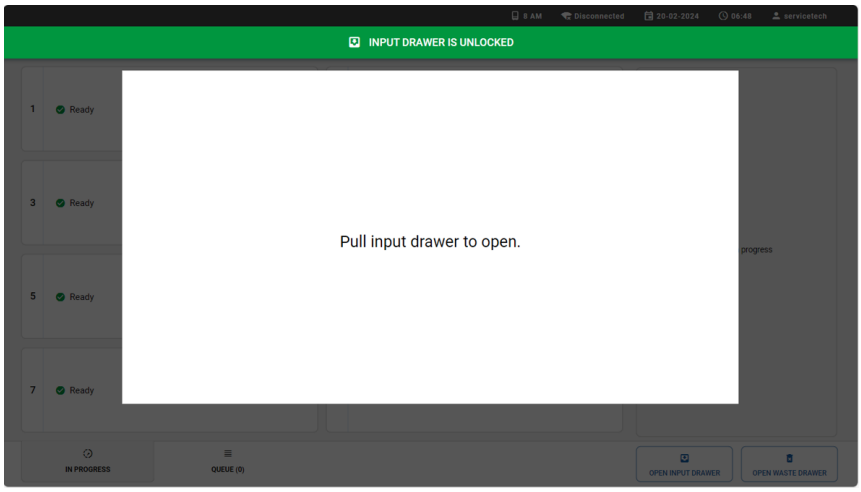


Figure 13. Input drawer open dialog box.

Starting with the cartridge loading step, the test setup in QIAstat-Dx Rise may differ depending on the HIS/LIS connection status and the **Test Orders** and **Force Orders** functionality of the HIS/LIS connection (Table 2). The details of the HIS/LIS settings can be found in Section 7 HIS/LIS Connectivity. For more information on **Test Orders** and **Force Orders** functionality, refer to Section 7.3 Querying test orders from HIS/LIS .

In case the QIAstat-Dx Rise instrument is not connected to the HIS/LIS system, it is recommended to enter the data to run the test manually, following the manual test setup (Section 5.2.1 Manual test setup).

When the QIAstat-Dx Rise instrument is connected to the HIS/LIS system and both **Test Orders** and **Force Orders** are enabled, the data to run the test will always be queried automatically ("LIS orders enforced" section). Samples where no order is available in HIS/LIS cannot be processed in this setup.

If the QIAstat-Dx Rise instrument is connected to the HIS/LIS system and **Test Orders** is enabled while **Force Orders** is disabled, the data to run the test can be either entered manually or can be queried automatically from HIS/LIS ("LIS orders optional" section). Samples without test order that are loaded without manual data entry will undergo full scan by the system before the queue is confirmed.

Table 2. Test setup options

HIS/LIS connection	Test orders	Force orders	Test setup	Reference section
No	n/a	n/a	Manual Test setup	Manual test setup
Yes	Disabled	Disabled	Manual Test setup	Manual test setup
Yes	Enabled	Enabled	Test setup with HIS/LIS connection	LIS orders enforced
Yes	Enabled	Disabled	Test setup with HIS/LIS connection	LIS orders optional

5.2.1. Manual test setup

If the QIAstat-Dx Rise is not connected to your HIS/LIS system, the test order data must be entered manually. To do this, scan the sample ID barcode and the cartridge ID barcode, then enter the relevant test data as described in this section.

1. The Add cartridge dialog box appears and the scanner at the front will be activated. Scan the sample ID barcode attached to the top of the QIAstat-Dx assay cartridge (position is indicated by the arrow) (Figure 14).

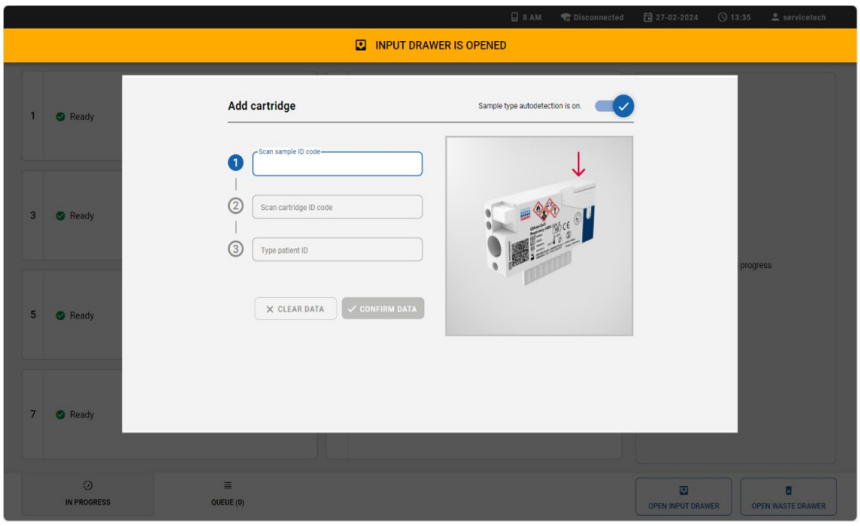


Figure 14. Scan sample ID screen.

2. Scan the cartridge ID barcode. The QIAstat-Dx Rise automatically recognizes the assay to be run, based on the QIAstat-Dx assay cartridge barcode (Figure 15).

   If sample type autodetection is enabled, the system will automatically recognize the sample type used. The sample type will be displayed as autodetected on the test details section of the sample queue screen. If sample type autodetection is not available for the assay used, the sample type has to be selected manually. If sample type autodetection is disabled, you might need to select the appropriate sample type manually. The sample type will be displayed on the test details section of the sample queue screen (Figure 22).

   Important: Note that there are QIAstat-Dx assays for which the QIAstat-Dx Rise cannot automatically detect the sample type. Check the respective assay handbook accordingly.

   Note: If the external front barcode scanner does not capture the barcode after presenting it to the scanner, contact QIAGEN Technical Service.

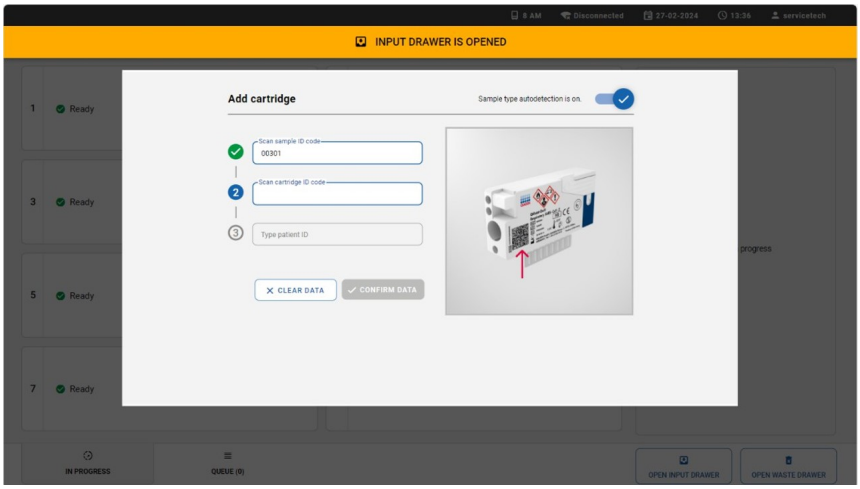


Figure 15. Scan cartridge ID screen.

Note: The QIAstat-Dx Rise is designed to reject QIAstat-Dx assay cartridges with lapsed expiration dates and onboard stability time, aborted cartridges, cartridges that were already used for a complete test run, or cartridges for assays that are not installed on the instrument. An error message will be displayed in these cases.

3. Select the sample type for assays where sample type autodetection is not available or in case sample type autodetection is not selected (Figure 16).

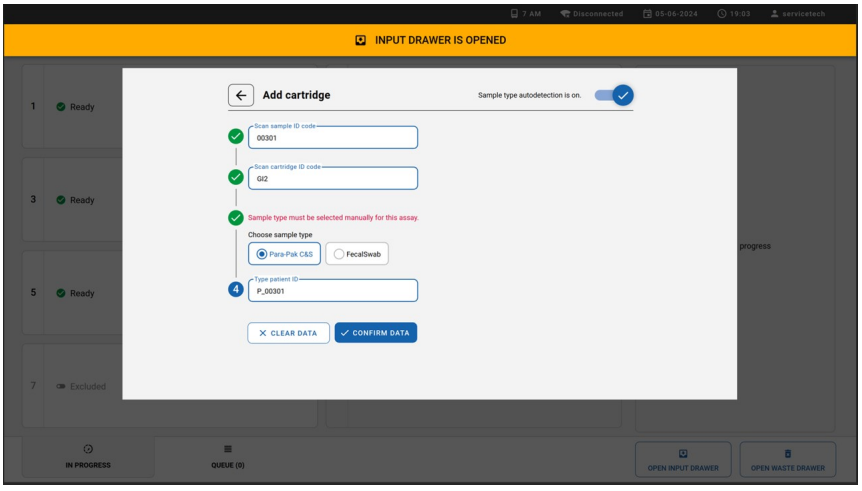


Figure 16. Select sample type screen.

4. Enter the patient ID and press **CONFIRM DATA** (Figure 17).

   Note: To enable use of the patient ID refer to the Section 6.3.2 General settings.

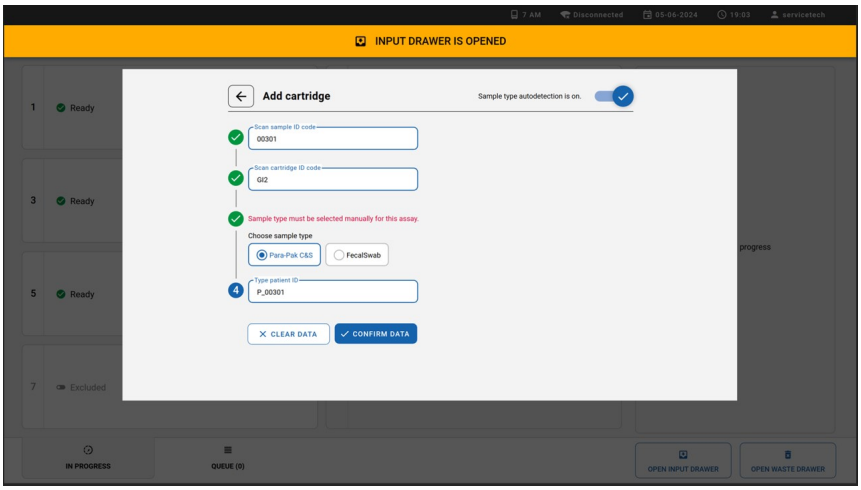


Figure 17. Type patient ID then confirm the data screen.

5. After a successful data entry, the following message bar appears briefly at the top of the screen (Figure 18).

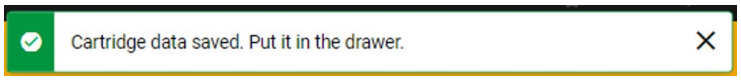


Figure 18. Cartridge saved dialog.

6. Place the cartridge into the input drawer. Make sure the cartridge is inserted properly into the tray.
7. Continue scanning and inserting cartridges following previous steps. You can load up to 18 cartridges into the drawer.
8. Close the input drawer when all cartridges have been manually scanned and inserted. The system will scan the cartridges and prepare a queue (Figure 19).

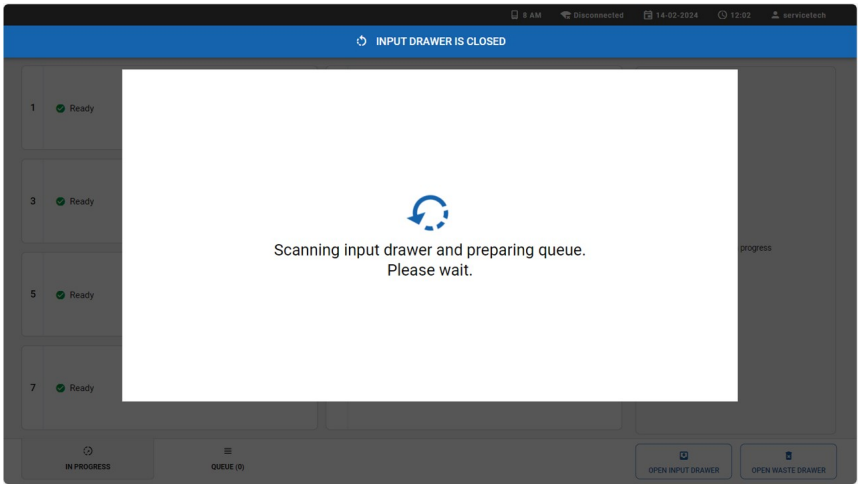


Figure 19. Preparing queue screen.

9. Continue with reviewing the test queue in Section 5.2.3 Review and confirm the test queue to run.

   Note: It is possible to load cartridges into the input tray without scanning them beforehand. In this case, the time for the queue preparation may take up to 30 minutes depending on the number of loaded cartridges and is therefore not recommended.

5.2.2. Test setup with HIS/LIS connection

When the QIAstat-Dx Rise instrument is connected to your HIS/LIS system, the test order data can be retrieved from the HIS/LIS fully automatically. The cartridges can be loaded without manual data entry as described below.

When connected to HIS/LIS the QIAstat-Dx Rise can be operated in 2 modes:

- **Force Orders enabled**: Test will only be executed when a matching LIS order can be retrieved from the LIS system.
- **Force Orders disabled**: User can enter test data manually, and run tests where no LIS order is available.

For more information regarding Force Orders functionality, refer to Section 7.3 Querying test orders from HIS/LIS

LIS orders enforced

When **Force Orders** is enabled, the Load Cartridge(s) dialog box appears as seen in Figure 20.

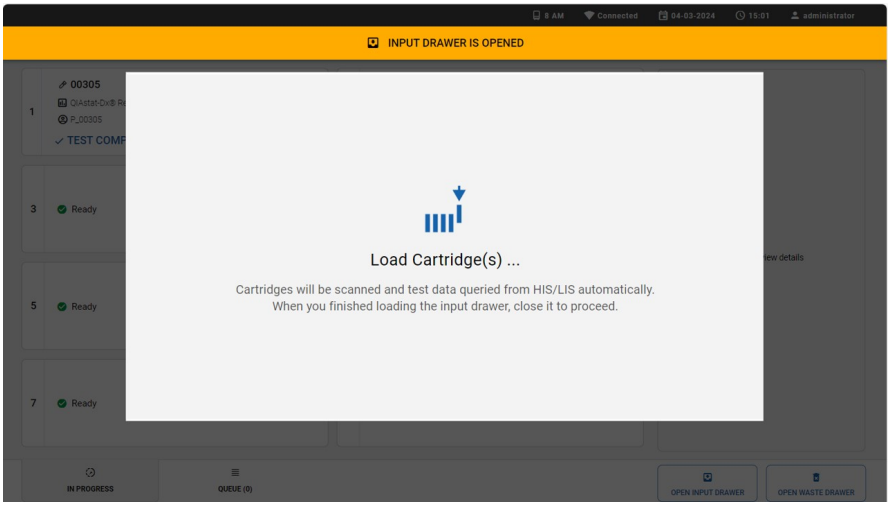


Figure 20. The load cartridge dialog box when both test order and force orders are enabled.

1. Place the cartridges into the input drawer (see Section 5.2 Procedure to run a test and the respective assay handbook for correct cartridge preparation). Make sure all the cartridges are inserted properly into the tray and the sample ID barcode is placed correctly.
2. Close the input drawer. The system will scan the sample ID barcode of the cartridges and prepare a queue (Figure 22).
3. Continue with reviewing the test queue in Section 5.2.3 Review and confirm the test queue to run.

Note: If **Force Orders** is enabled and the test order is not successfully retrieved from the LIS, the system will display an error and not run the test. If a sample must be urgently run for which no test order is created yet, an administrator must temporarily turn off the **Force Orders** functionality as described in Section 7 HIS/LIS Connectivity.

Note: If **Force Orders** is enabled for the assays to which sample autodetection function is available and the order contains a sample type that is not defined in the ADF, the cartridge goes to the scan station before queue confirmation.

LIS orders optional

When **Force Orders** is disabled, the Load Cartridge(s) dialog box appears as seen in Figure 21.

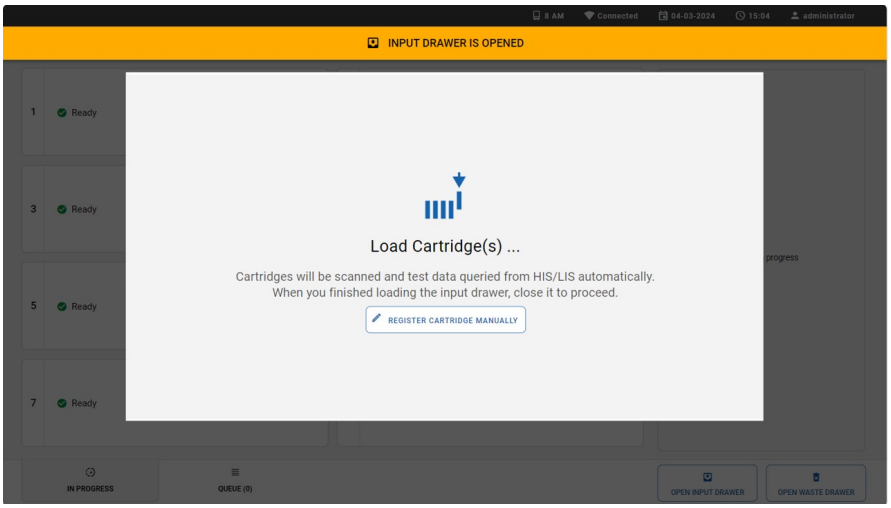


Figure 21. The load cartridge dialog box when the test order functionality is enabled and force order disabled.

When a test order can be retrieved from the LIS system for a sample, the cartridge can be loaded without entering the test data manually.

1. Place the cartridges into the input drawer (see Section 5.2 Procedure to run a test and the respective assay handbook for correct cartridge preparation). Make sure all the cartridges are inserted properly into the tray.
2. Close the input drawer. The system will scan the sample ID barcode of the cartridges and prepare a queue (Figure 22).
3. Continue with reviewing the test queue in Section 5.2.3 Review and confirm the test queue to run.

When no test order can be retrieved from the LIS system for a sample, the user can enter the test data manually to run the test.

1. Press **REGISTER CARTRIDGE MANUALLY** to switch to manual test setup.
2. Enter the test data and load the cartridges as described within Section 5.2.1 Manual test setup.

The system can process tests that were registered manually and tests where the test order is retrieved from LIS in parallel.

Note: For samples where no test order was created in the HIS/LIS system, the manual data entry is strongly recommended. Otherwise, the time for the queue preparation may take up to 30 minutes depending on the number of loaded cartridges and is therefore not recommended.

5.2.3. Review and confirm the test queue to run

When calculated, the test queue is displayed as in Figure 22. Review the data shown in the queue. In case of an error, the respective cartridge will be moved to the waste tray after confirming the queue.

Important: If **LIS orders** is enabled and a cartridge was previously canceled, the onboard stability time cannot be displayed correctly by the system during confirmation of the queue. The correct onboard stability time will only be displayed once the cartridge is scanned in the scan station. In this case, it is required that the user tracks the onboard stability time of the sample as cartridges with exceeded onboard stability time might lead to false results.

Important: Do not change the position of a cartridge in the input drawer when re-loading cartridges (continuous loading). If **LIS orders** is enabled and a cartridge position is changed, the sample stability time will be reset.

Note: If **LIS orders** is enabled and the user removes a cartridge from the input drawer before the queue is confirmed, the time the cartridge resided in the input drawer is not considered when calculating the onboard stability time when the cartridge is reloaded into the system.

Note: Some errors cannot be detected at this stage, for example, if cartridge data are not matching with data retrieved from the HIS/LIS order. In this case and because cartridges with exceeded onboard stability might lead to false results, the system will display an error at a later processing step and waste the cartridge at that point in time.

In either case, a detailed error message about the error can be seen in the test results.

Alternatively, the cartridge can be taken out from the input drawer. This is not recommended because the detailed error message is lost once the cartridge is taken out. It also takes longer to process cartridges when the input drawer is opened a second time before the queue confirmation.

It is possible to prioritize a sample at that point (see Section 5.5 Cancelation and abortion of samples).

Note: If you need to open the input drawer during a run for any reason (e.g., to load/unload cartridges) the system will prepare the queue again. The queue needs to be confirmed again.

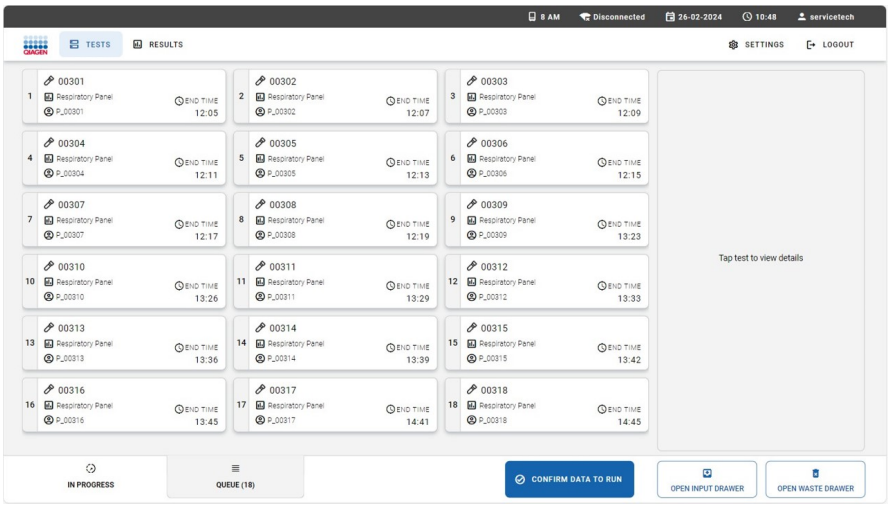


Figure 22. Sample queue screen.

Note: The sample order on the screen may not match the cartridge order in the input drawer. The sample queue/processing order is generated by QIAstat-Dx Rise based on the following rules:

- Samples marked as URGENT will be processed first.
- Stability time/onboard time: Assays with the shortest remaining stability time will be prioritized over samples with longer stability time irrespective of the position in the loading tray.
- Within the same assay type, the position in the loading tray determines the order in the queue.

Note: The terms “stability time” and “onboard time” are used synonymously in this document. Please refer to the assay instructions for use for the maximum allowed stability time once the sample is loaded into the cartridge.

If you select a test on the touchscreen, additional information is displayed in the view details section of the screen (Figure 23).

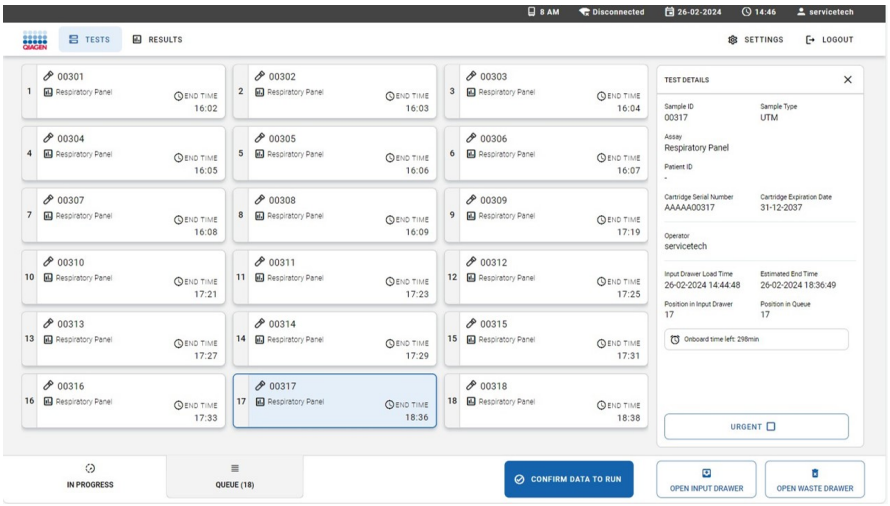


Figure 23. Sample queue screen with selected assay showing additional information.

The following information is displayed in the test details section:

- Sample ID
- Sample Type (depends on assay and sample autodetection function)
- Assay
- Patient ID (if applicable)
- Cartridge Serial Number
- Cartridge Expiration Date
- Operator
- Input Drawer Load Time
- Estimated End Time
- Position in Input drawer
- Position in Queue (**Note**: The position may differ, based on sample or assay stability time/onboard time)
- Onboard time left
- **URGENT** icon for prioritization functionality
- Error messages, warnings (if applicable)

Note: In case that a cartridge was loaded using the automatic test setup (see Section 5.2.2 Test setup with HIS/LIS connection), some of the information above (such as the cartridge serial number) may not yet be displayed.

Press **CONFIRM DATA TO RUN** on the bottom of the screen when all the displayed data are correct (Figure 23). Thereafter, one final confirmation is required from the operator to run the tests, press **RUN TEST** (Figure 24).



Figure 24. Confirm queue dialog box.

5.3. Test execution

After the queue is confirmed, the **IN PROGRESS** tab is displayed. The **IN PROGRESS** tab provides instant information about each of the 8 Analytical Module (AM) and the sample being tested by each of the AM.

While the tests are running, the remaining run time and other information for all tests in process are displayed on the touchscreen (Figure 25).

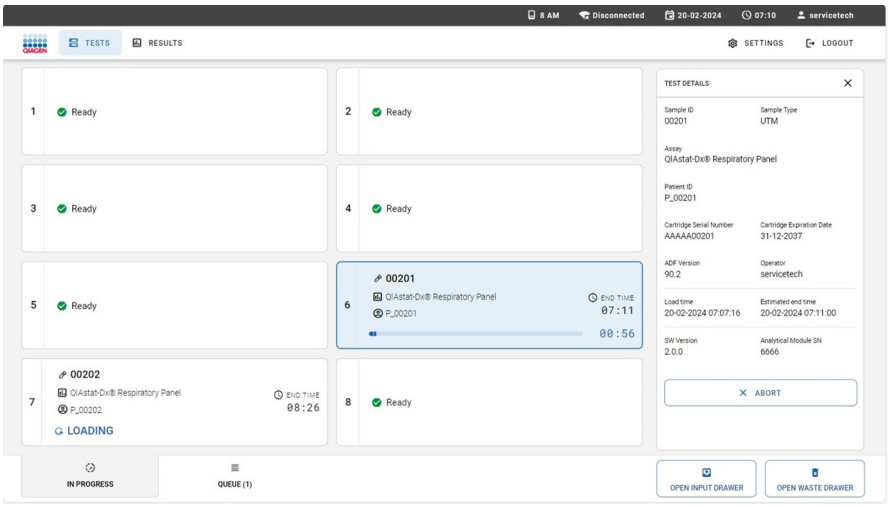


Figure 25. Test execution information on TESTS screen.

When the cartridge is scanned on the scan station, the state "CHECKING" is displayed (Figure 26).

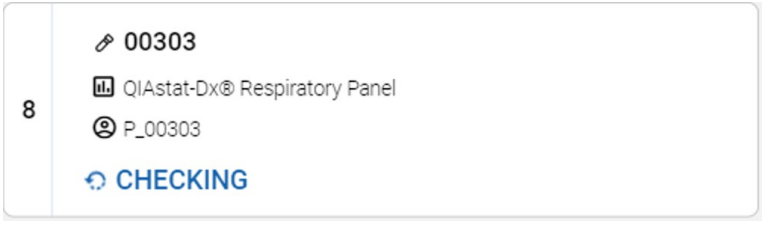


Figure 26. Cartridge checking message.

When the cartridge is being loaded into an AM, a test "LOADING" message and the estimated end time are displayed (Figure 27).

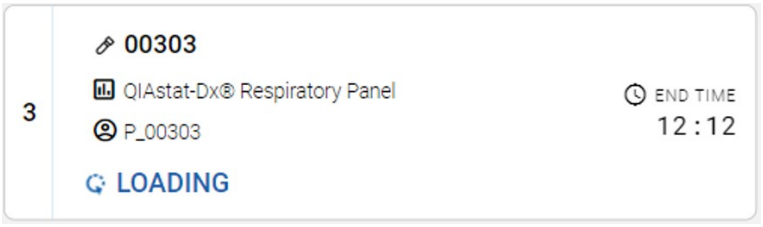


Figure 27. Test loading message and end time.

When the test is running, the elapsed run time and the approximate end time are being displayed (Figure 28).

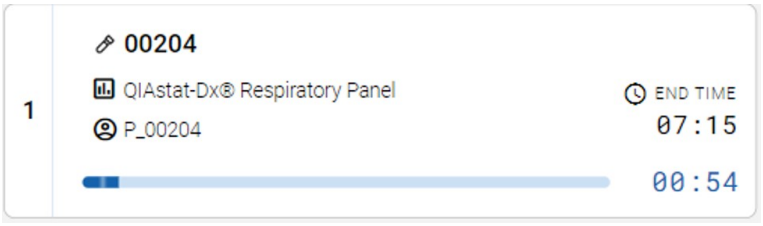


Figure 28. Elapsed run time and approximate end time view.

If the test is completed, a "TEST COMPLETED" message and the run end time is displayed (Figure 29).

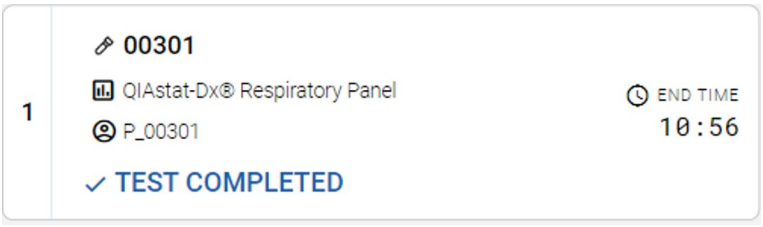


Figure 29. Test completed view.

If an error occurs during test execution, the error message will be displayed instead of the "TEST COMPLETED" message.

5.4. Prioritizing samples

5.4.1. Prioritizing samples before starting the run

If one sample needs to be run urgently, it is possible to select this sample on the sample queue screen and run as a first sample. Please note that it is not possible to prioritize a sample after confirmation of the queue. If you need to prioritize a sample after the queue is confirmed, it is required to open and close the input drawer again to create a new queue and prioritize the sample prior to confirming the queue.

Note: Opening the input drawer will trigger a rescan of the cartridges in the input drawer that will take approximately the same time as the original scan.

The urgent sample is selected on the queue screen and marked urgent from right-hand side of the sample queue screen before confirm data to run (Figure 30). Following this, the sample is moved to the first position of the queue and will be processed before all other cartridges in the first available AM (Figure 31).

Note: Only one sample can be prioritized at a time.

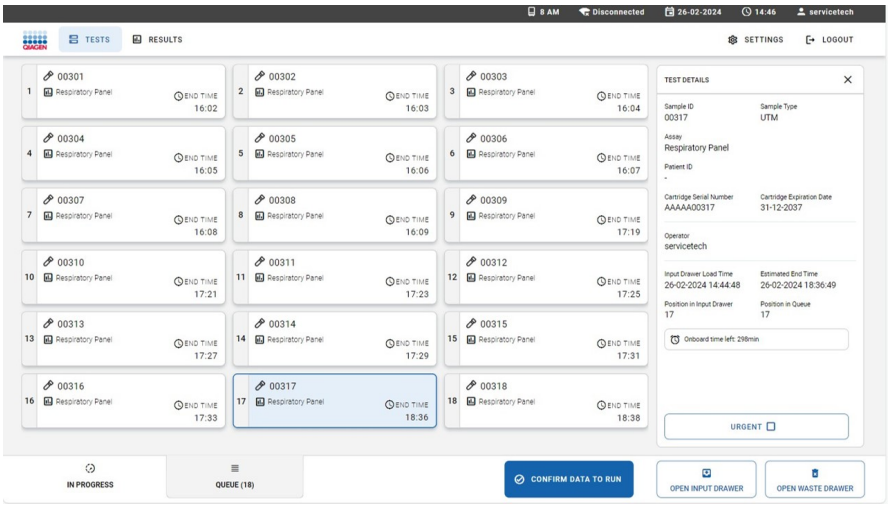


Figure 30. Sample queue screen while selecting sample to be prioritized.

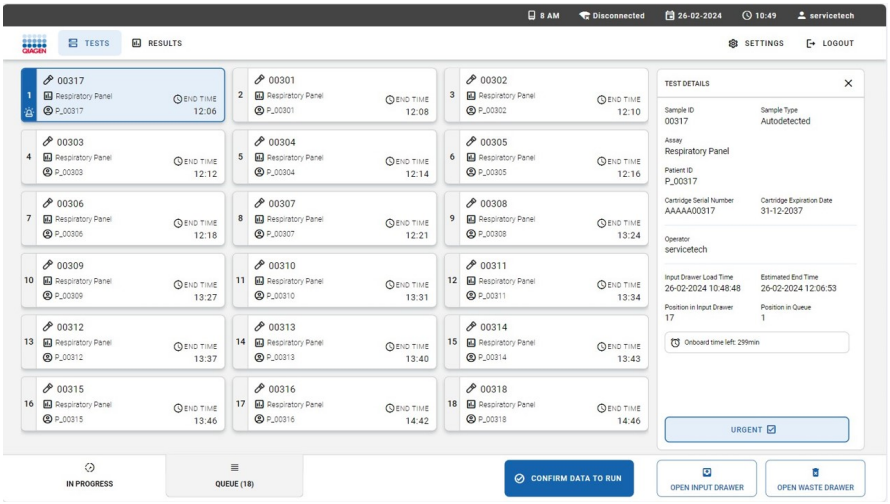


Figure 31. Sample queue screen after a sample is prioritized.

Some other samples may run out of stability time due to prioritization of a sample. The system marks samples that may run out of stability time with a red icon and show the remaining onboard time in the TEST DETAILS area (Figure 32).

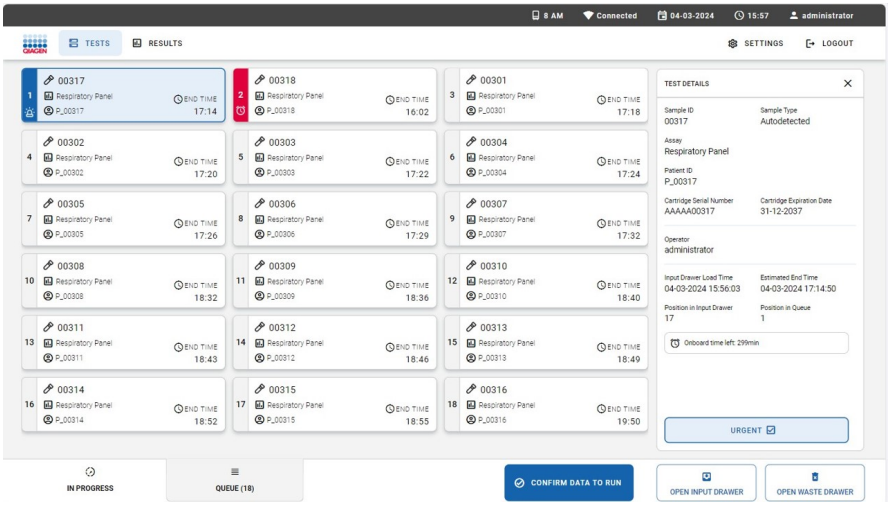


Figure 32. Sample queue screen after a sample is prioritized and one sample may run out of stability time.

After confirmation of the queue, the run can be started (Figure 33).

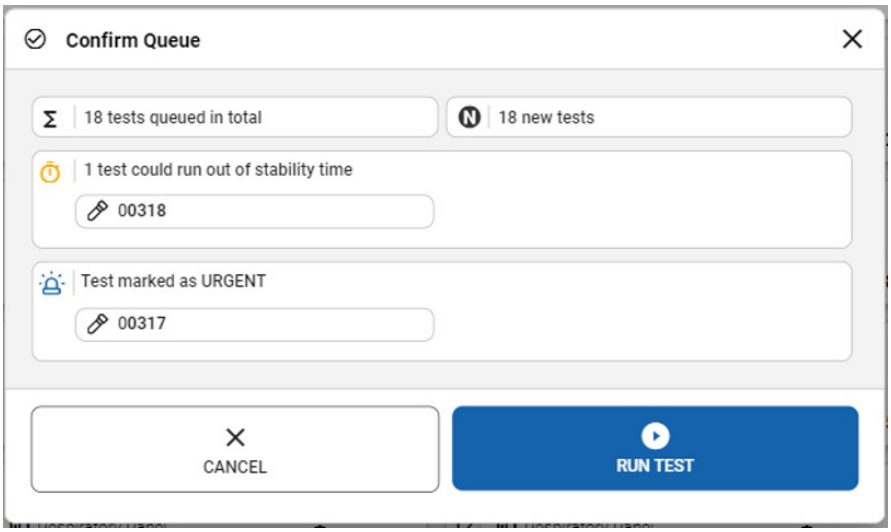


Figure 33. Confirmation of the run screen.

5.4.2. Prioritizing sample during run

If you need to prioritize a sample during the run, it is required to open and close the input drawer and prioritize the sample before confirming the queue. The **URGENT** sample will be processed in the next available Analytical Module (AM).

Note: Opening the input drawer will trigger a rescan of the cartridges in the input drawer that will take approximately the same time as the original scan.

In case the **URGENT** sample needs to be processed immediately and all Analytical Modules are executing tests, any other ongoing test needs to be aborted to start the test execution of the **URGENT** sample (Figure 34).

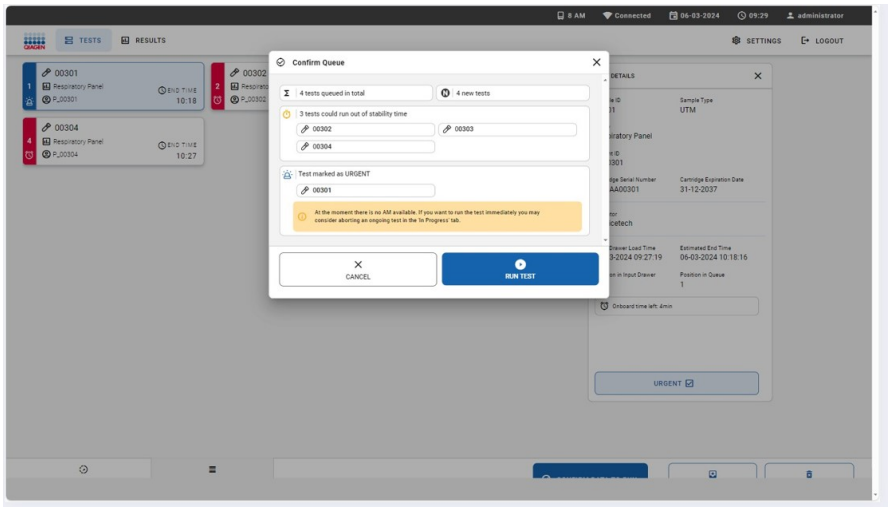


Figure 34. Confirmation when there is no available AM.

5.5. Cancelation and abortion of samples

5.5.1. Cancelation and abortion of samples by the system

Samples can be canceled or aborted by QIAstat-Dx Rise when the test run cannot be started due to an error that occurs before the cartridge is inserted into an Analytical Module.

A cancelation occurs when a sample/cartridge cannot be run due to an error that does not affect the sample (for example, if the sample ID barcode cannot be read by the system). Because the sample is not affected, the canceled cartridge can be reloaded into the instrument provided the error is corrected and the stability time is not exceeded.

A sample/cartridge is aborted if the sample is affected, so that the result is at risk. (For example, if the temperature inside the instrument is too high). The aborted cartridge can no longer be used.

Result records are created for both canceled (Figure 35) and aborted (Figure 36) cartridges. The test status shows whether a test was canceled or aborted. A detailed error message describes the error. For canceled samples, the message also indicates how to resolve the error so that the cartridge can be reloaded into the instrument. For aborted samples, the test result is transferred to LIS when the system is setup accordingly. In both cases, the cartridge can be taken out of the instrument from the waste drawer.

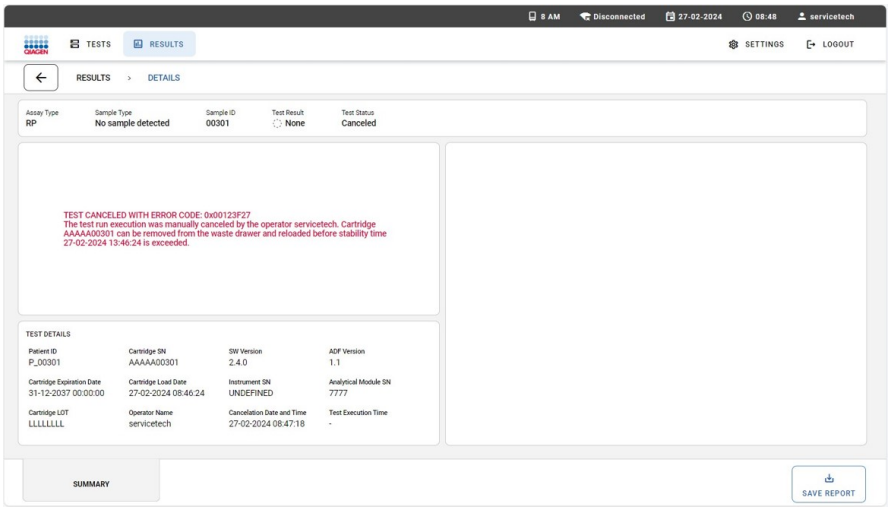


Figure 35. Result of a canceled sample.

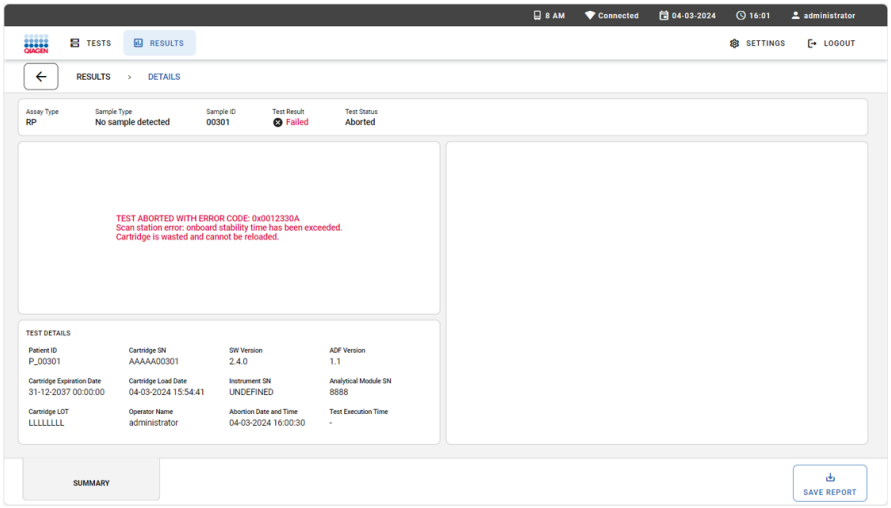


Figure 36. Result of an aborted sample.

In addition to the test cancelations and abortions performed by the system, users can also manually cancel or abort a sample, depending on the status of the run.

5.5.2. Cancelation of a sample by user

A sample can be canceled during transfer to the scan station and cartridge check performed in the scan station (Figure 37). Once the sample is loaded into the AM, it is no longer possible to cancel the test and therefore the cancel option is no longer visible on the touchscreen. After this point, the cartridge can only be aborted (see Section 5.6 Continuous operation).

To cancel a sample, go to the **IN PROGRESS** tab of the screen, then select the sample and press **CANCEL** on the bottom right corner of the screen (Figure 37).

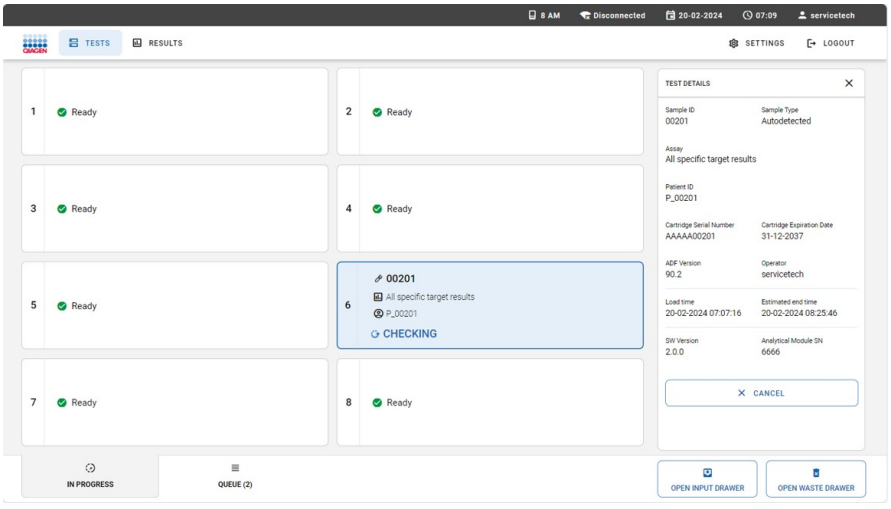


Figure 37. Cancelation of a sample.

Press **CONFIRM CANCELATION** to proceed with the cancelation (Figure 38).

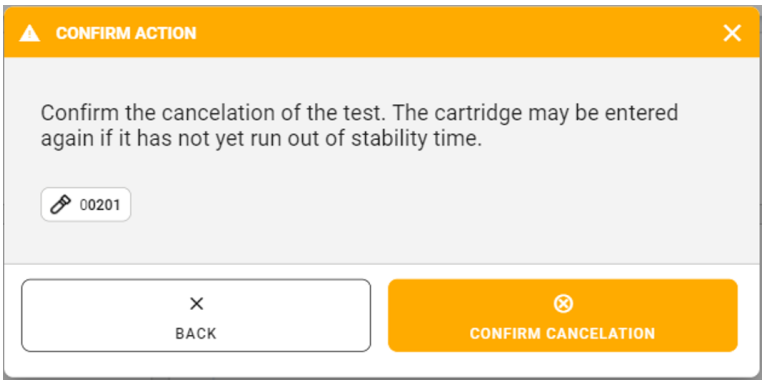


Figure 38. Confirmation dialog box of sample cancelation.

The canceled sample can be reloaded into the instrument if the onboard stability time is not exceeded (Figure 39).

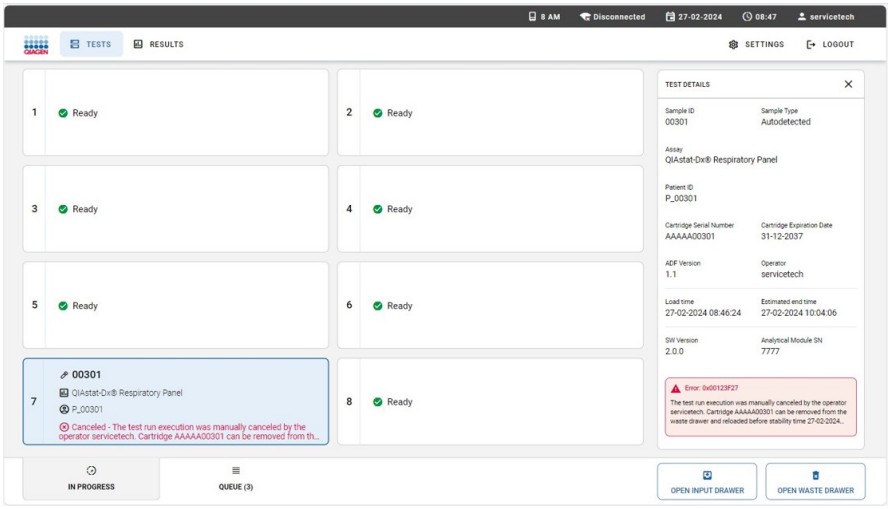


Figure 39. Canceled sample screen.

5.5.3. Abortion of a sample by user

A sample can be aborted while the test is running inside the Analytical Module (AM). To abort a sample, go to the **IN PROGRESS** tab of the **TESTS** screen, then select the sample and press **ABORT** on the bottom right corner of the screen (Figure 40).

Important: The sample cannot be used again once it is aborted.

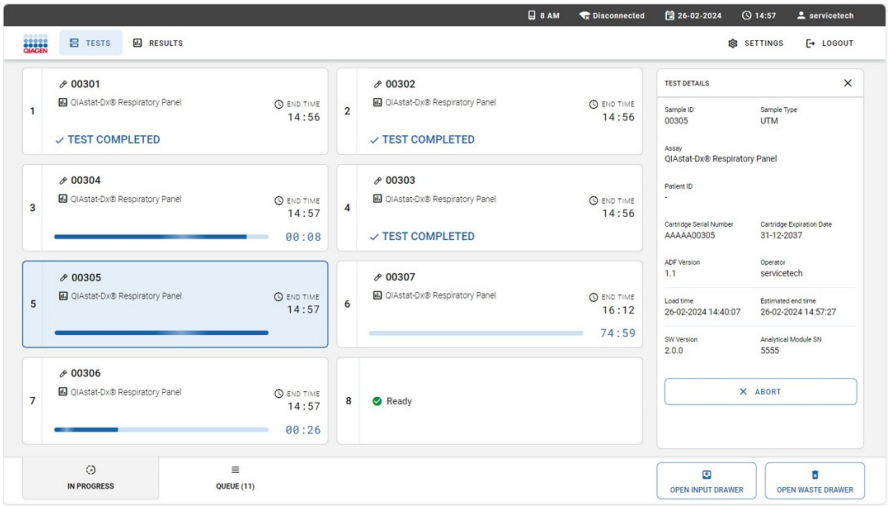


Figure 40. Abortion of a running sample.

Press **CONFIRM ABORTION** to proceed with aborting the sample (Figure 41).

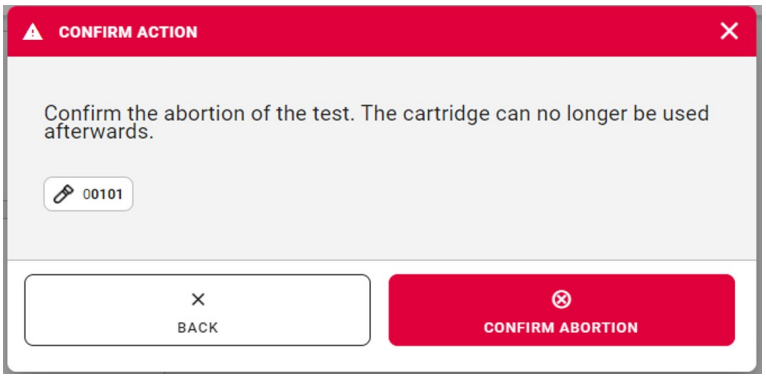


Figure 41. Confirmation dialog box to abort running sample.

After confirmation, the system aborts the run, ejects the cartridge, and moves it to the waste drawer. After a while, the sample can be seen as aborted on the screen (Figure 42 and Figure 43).

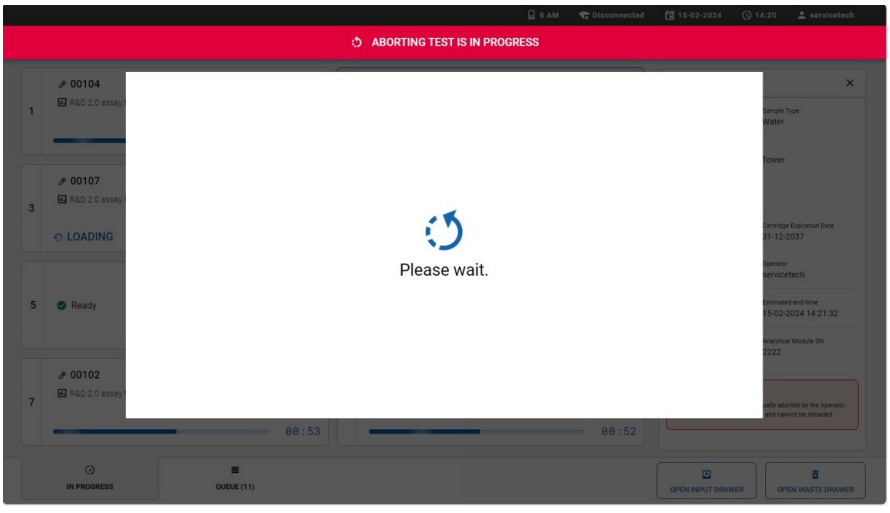


Figure 42. Sample abortion waiting dialog box.

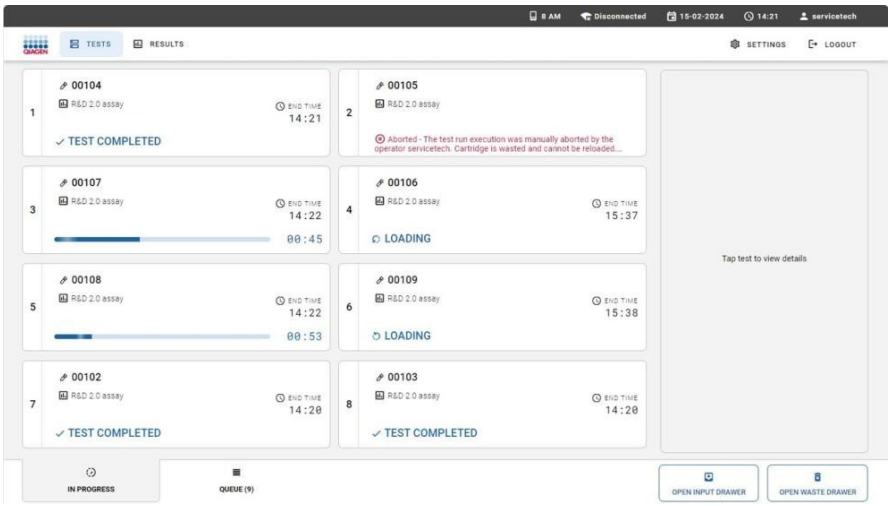


Figure 43. Aborted sample after confirmation of the abortion.

5.6. Continuous operation

5.6.1. Continuous loading

Continuous operation of the QIAstat-Dx Rise allows the user to easily and safely open the input drawer and load new cartridges to be tested during their testing routine while a test run is being performed for other cartridges.

Note: During continuous loading, do not exchange an existing cartridge with another cartridge containing the same sample ID.

5.6.2. Empty the waste drawer during continuous run

Note: The user must check and unload the waste drawer when the new cartridges are loaded to the instrument.

QIAstat-Dx Rise always checks the total number of cartridges in the input tray, waste tray, and all available AM right after the input drawer or waste drawer is closed by the user.

If the total number of the cartridges exceeds the available slots in the waste drawer and available AM, the QIAstat-Dx Rise will show the "Empty The Waste Drawer" warning dialog box right after the scan of input tray and load check of waste tray. The warning dialog box contains the number of available slots for waste tray and AM and occupied slots for input tray (Figure 44).

The warning dialog box can simply be closed by the user by pressing the **CLOSE** button on the screen.

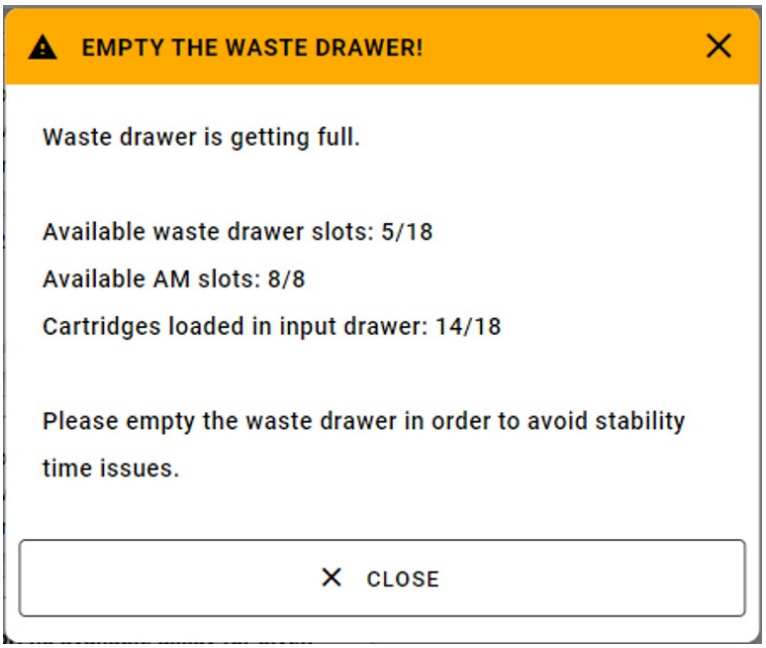


Figure 44. Empty waste drawer dialog box.

When there are 7 empty slots in the waste tray, the warning dialog box appears on the upper side of the screen and the status indicators (LEDs) of the system starts blinking blue. This additional warning is automatically updated by the system, and it is permanent on the screen until the waste drawer is emptied (Figure 45).



Figure 45. Waste drawer warning.

If the waste tray is not emptied, the system will be blocked and the 2 warning dialog boxes appear on the screen (Figure 46). The user can select **OPEN WASTE DRAWER** option on the warning and empty the waste drawer. Please note that this warning will disappear after a few seconds, but the warning on the upper side (Figure 47) will stay until the waste drawer is emptied. The user can still open the waste drawer and empty at any time.

Note: When the system is blocked, the status indicators (LEDs)of the system starts red blinking.

When the system is blocked, running samples will be completed. However, Analytical Modules cannot be unloaded and remaining samples in the input tray are at risk to exceed their stability time.

After emptying the waste drawer, the warning will disappear, the remaining processed samples in the AM will be transferred to the waste drawer, and the system will be active again.

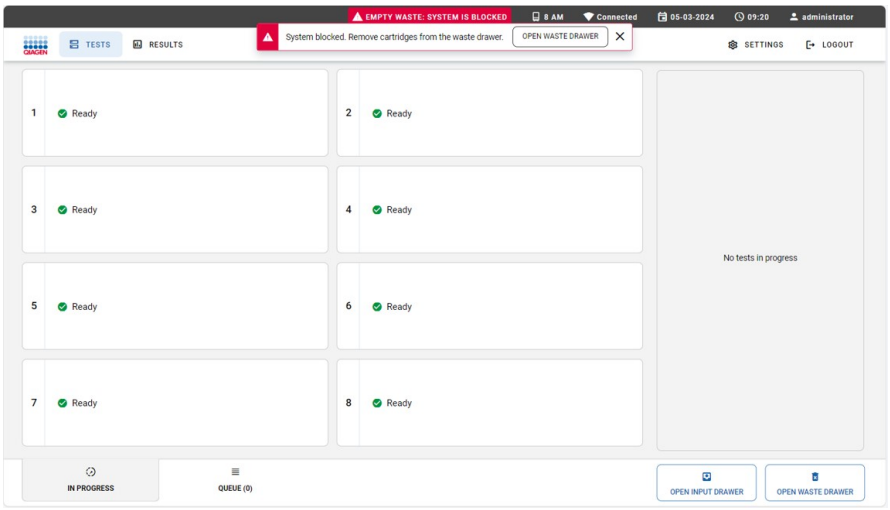


Figure 46. System is blocked warnings.



Figure 47. System is blocked warning.

5.7. Viewing results

The QIAstat-Dx Rise automatically interprets and saves test results. After the run is completed, the results can be seen in the **RESULTS** summary screen (Figure 48).

Note: The figures shown in this user manual are only examples and may differ from assay to assay.

Note: Refer to assay-specific instructions for use for possible results and instructions on how to interpret assay results.

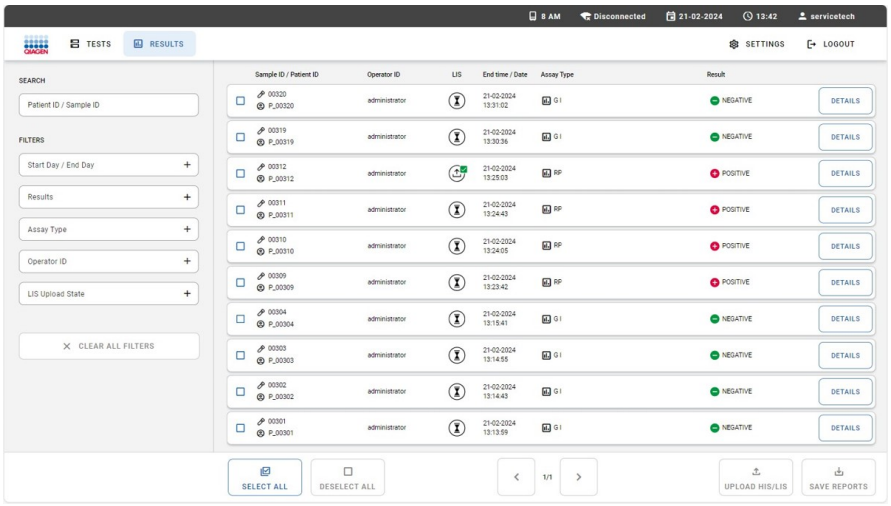


Figure 48. The RESULTS summary screen.

The main part of the screen provides an overview of the completed, canceled, and aborted runs and uses color-coding and symbols to indicate the results:

- If at least one pathogen is detected in the sample, the term POSITIVE is displayed in the result column, preceded by a sign.
- If no pathogen is detected, and the internal control is valid, the term **NEGATIVE** is displayed in the result column, preceded by a sign.
- If at least one pathogen is detected in the sample, and the internal control was invalid, the term **POSITIVE WITH WARNING** is displayed in the result column, preceded by a ! sign.
- If the test did not complete successfully, the term **FAILED** is displayed in the result column, proceeded by a sign. When viewing the details of such a test, a specific error code followed by an error message is displayed.
- If a test is canceled before running in an AM, the term **NONE** is displayed in the result column, proceeded by a sign. When viewing the details of such a test, a specific error message displays the reason for the cancelation and steps how to resolve it. The cartridge of a canceled test can be reloaded into the instrument again within the stability time.
- If a test is aborted before running in an AM, the term **ABORTED** is displayed in the result column, proceeded by a sign. When viewing the details of such a test, a specific error message displays the reason for the abortion. The cartridge of an aborted test cannot be reloaded into the instrument.

The **RESULTS** summary screen displays the following information:

- Sample ID/Patient ID (if applicable)
- Operator ID
- LIS (HIS/LIS upload state, if applicable)
- End time/Date
- Assay Type
- Result

The **SEARCH** option is available with **Patient ID/Sample ID**. **FILTERS** are available by **Start Day/End Day**, **Results**, **Assay Type** and **Operator ID**, and **LIS Upload State**. To remove the filters, press **CLEAR ALL FILTERS**.

5.7.1. Viewing test details

For the summary of the data, press **DETAILS** sat the right side of the screen (5). The upper part of the screen displays general information about the test. It includes **Assay Type**, **Sample Type**, **Sample ID**, **Test Result**, status of the **Internal Control**, **Test Status**, and **LIS Upload Status** (Figure 49).

On the left side of the screen, all positive and equivocal pathogens are displayed, the right part of the screen displays all pathogens defined by the assay and their detection status. For positive and equivocal pathogens, the Ct value and the endpoint fluorescence is displayed. If AMR genes are detected, the Ct value and endpoint fluorescence may or may not be displayed depending on the assay. If the assay contains pathogens which produce semi-quantification results, a third column for the semi-quantification value is displayed.

On the bottom left side of the screen, the test details are presented:

- Patient ID (if applicable)
- Cartridge SN (serial number)
- SW Version (software version)
- ADF Version
- Cartridge Expiration Date
- Cartridge Load Date
- Instrument SN
- Analytical Module SN
- Cartridge LOT
- Operator Name
- Test Start Date and Time
- Test Execution Time
- LIS Upload Status (if applicable)
- LIS Order Number (if applicable),
- LIS Order Date and Time (if applicable).

Note: Categories and type of pathogens displayed depend on the assay used.

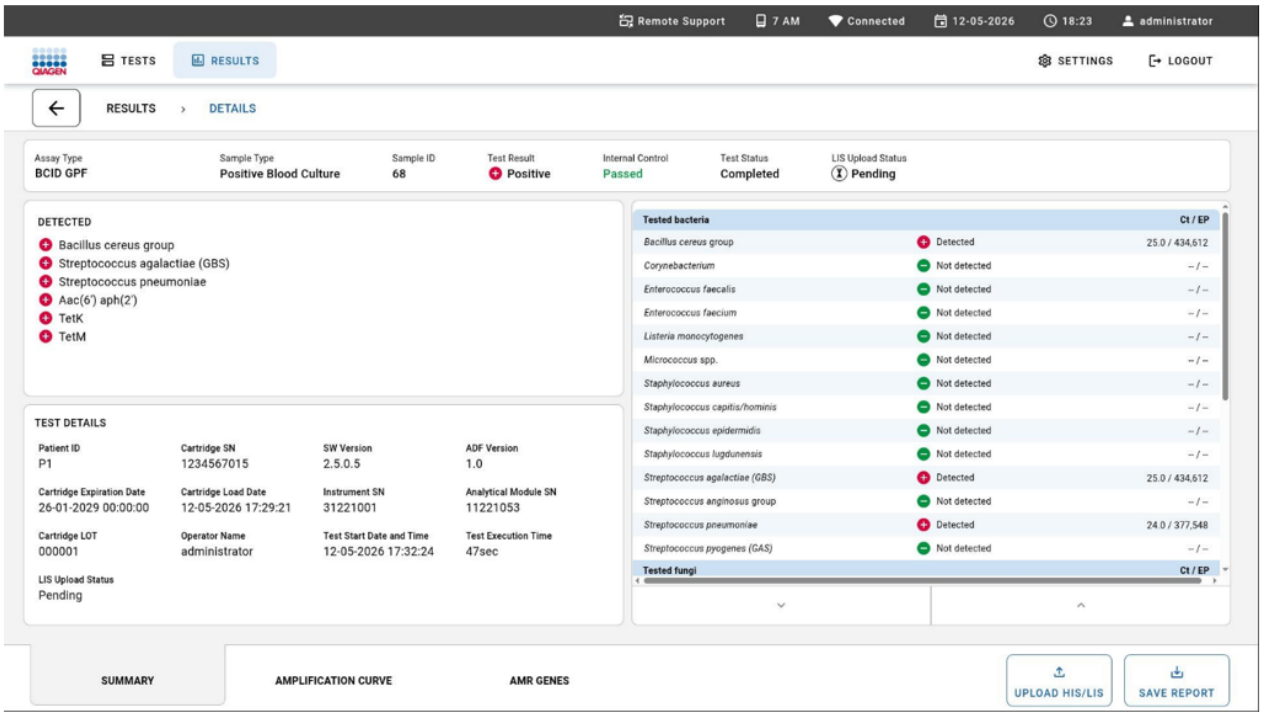


Figure 49. The test details screen.

5.7.2. Viewing amplification curves

To view the test amplification curves, press the **AMPLIFICATION CURVE** tab at the bottom of the screen (Figure 50).

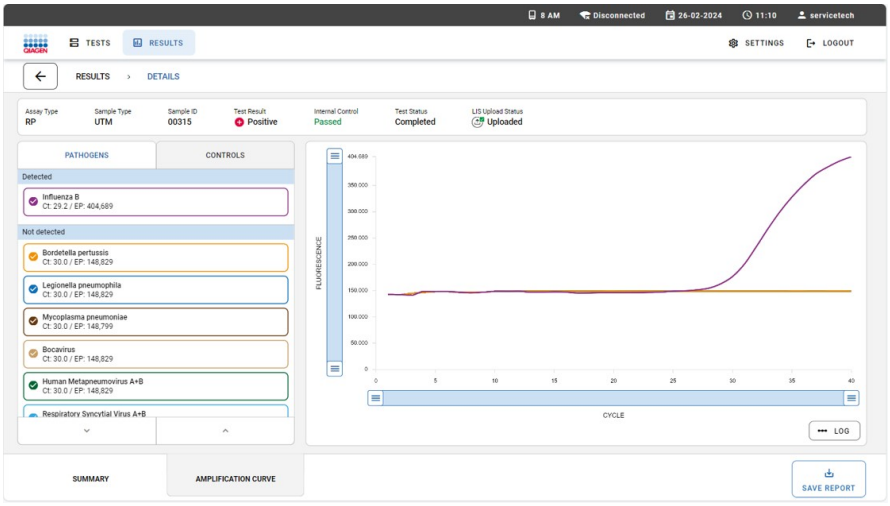


Figure 50. The amplification curves screen.

Press the **PATHOGENS** tab on the left side to display the plots corresponding to the tested pathogens. Tap the pathogen name to select which pathogens are displayed in the amplification plot. It is possible to select single, multiple, or no pathogens. Each pathogen in the selected list will be assigned a color corresponding to the amplification curve associated with the pathogen. Unselected pathogens will not be displayed.

The corresponding Ct and endpoint fluorescence values are displayed below each pathogen name. Pathogens are grouped into **detected**, **equivocal**, and **not detected**.

Select the **CONTROLS** tab on the left side to view the controls and select which controls are shown in the amplification plot.

5.7.3. Viewing AMR genes

The AMR Genes view enables the review of antimicrobial resistance (AMR) gene results for assays that include AMR targets.

To access this view, press the **AMR GENES** tab at the bottom of the Results screen.

Note: The **AMR GENES** tab is only available for assays that include AMR gene detection.

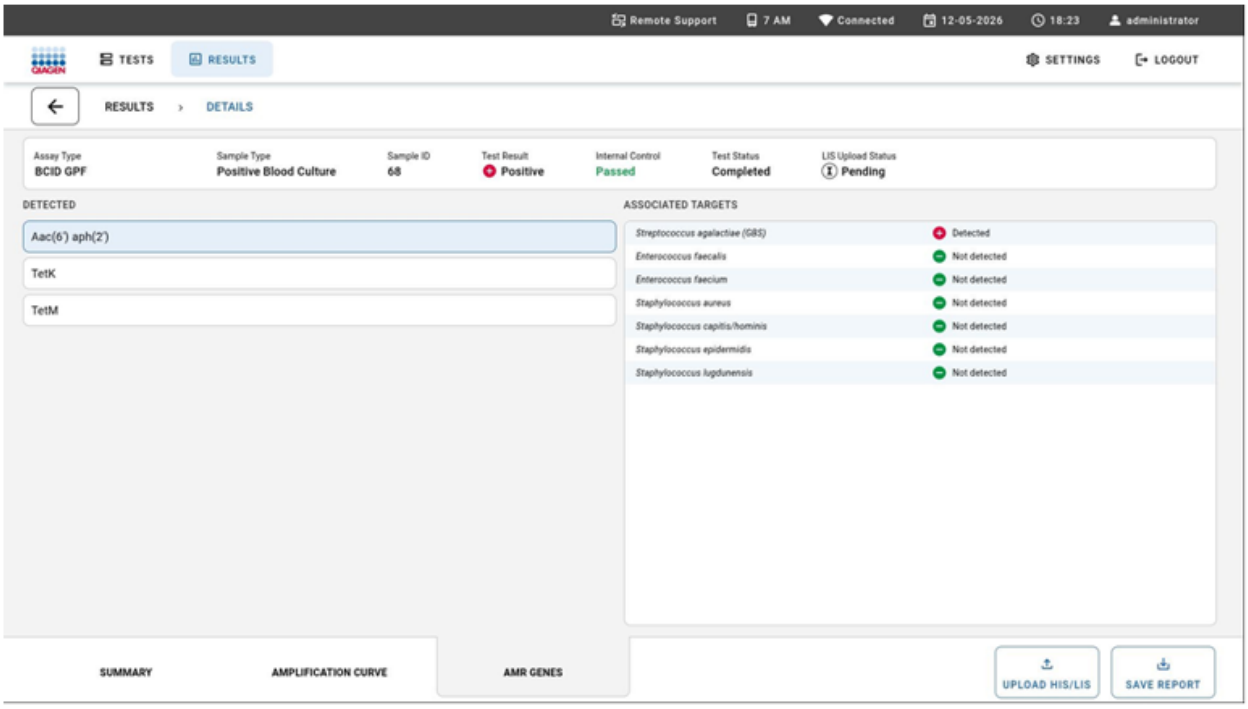


Figure 51. AMR Genes screen.

On the left side of the screen, a list of all detected AMR genes is displayed. When selecting one of the detected AMR genes, a list of all associated pathogens is displayed on the right side. Pathogens detected and identified in the sample are preceded by a sign and are colored red. Pathogens that were tested but not detected are preceded by a sign and are colored green.

AMR genes are displayed only when at least one pathogen associated with that resistance marker is detected by the assay. If none of the pathogens linked to a specific AMR gene are detected, the corresponding AMR gene is not displayed on the AMR Genes screen.

With this exception, AMR gene results follow the same detected and not detected logic used for pathogen reporting.

Detection of an AMR gene indicates the presence of the corresponding genetic determinant but does not confirm phenotypic antimicrobial resistance. Conversely, a Not Detected AMR gene result does not indicate antimicrobial susceptibility. Bacteria

may be resistant to specific antibiotics by mechanisms of resistance not targeted by the QIAstat-Dx panels. In samples with mixed growth, AMR genes are not assigned to a specific pathogen. AMR gene results should always be interpreted together with the detected pathogens, additional laboratory testing, and the overall clinical context.

For more information about AMR genes and a complete overview of all associations between AMR genes and other targets, refer to the respective assay's instruction for use.

5.7.4. Browsing results from previous tests

To view results from previous tests that are stored in the results repository, use the search functionality in the main results screen (Figure 48).

5.7.5. Exporting results to a USB storage device or connected network share

To export test results to a USB storage device or connected network share, follow these steps:

Note: See Section 6.3.3 Connectivity settings for further details regarding network share configuration.

1. Navigate to the **RESULTS** menu to export test reports as PDF to a USB storage device or connected network share.
2. Select the report(s) to export individually or use **SELECT ALL** to select all reports. Press **SAVE REPORTS** to initiate the export and **CONFIRM** the export.
3. If multiple USB drives or connected network shares are connected, select the desired USB drive or connected network share (Figure 52). When the export of the reports is completed, the system displays a message in the message bar (Figure 53).

Note: The USB ports are located in the front and on the side of the instrument.

Important: Do not remove the USB storage device until the data transfer is finished.

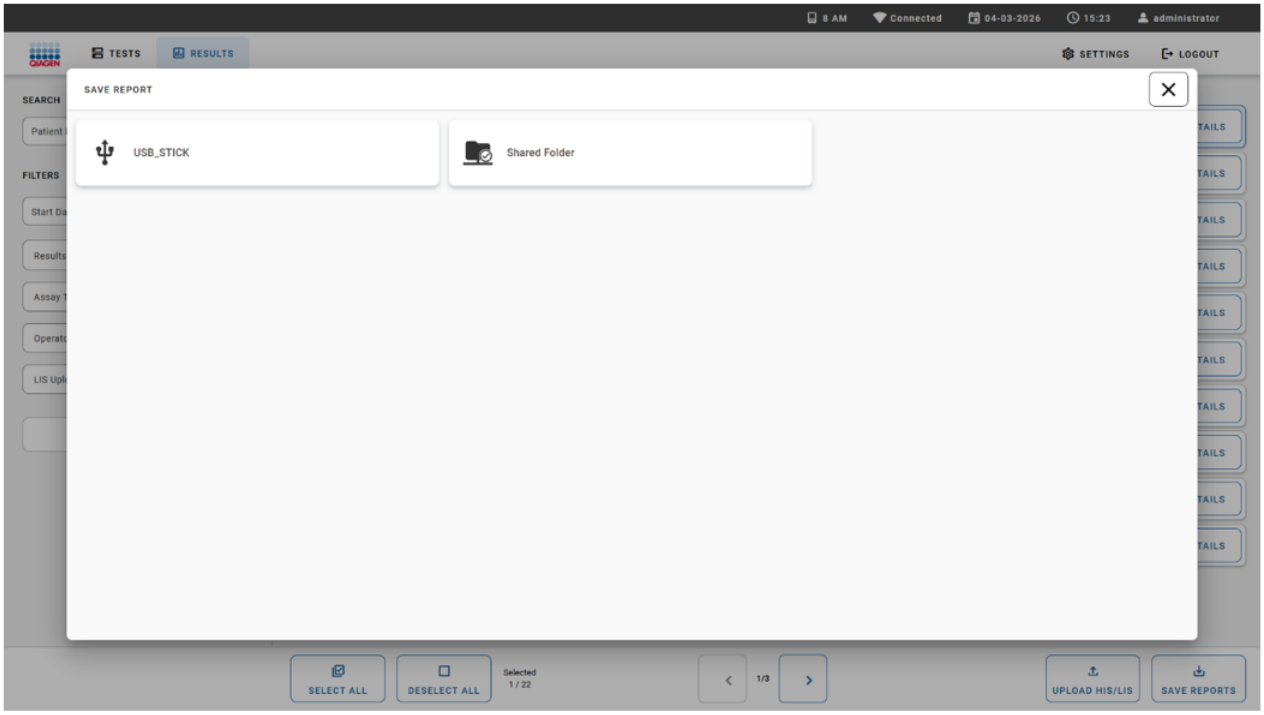


Figure 52. Exporting results to a USB storage device or via connected network share.

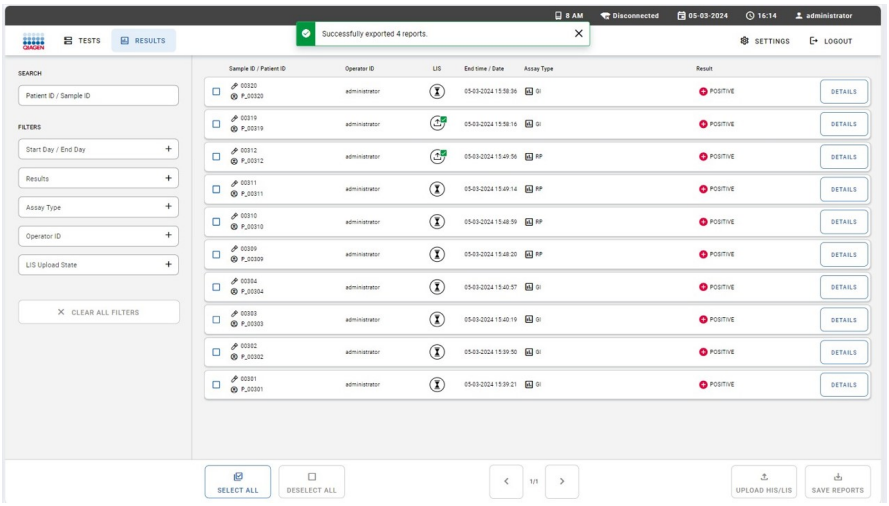


Figure 53. Successful export.

Note: It is recommended to use the USB storage device for short-term data saving and transfer only. The use of a USB storage device is subject to restrictions (e.g., the memory capacity or the risk of overwriting, which should be considered before usage). It is recommended to use USB 3.0 with 64 GB memory capacity and exFAT file system format to decrease the transfer time of files to and from the storage device.

5.8. Creating a support package

If support is required, a support package containing all required run information, system, and technical log files can be created and provided to QIAGEN Technical Service.

To create a support package, follow these steps:

1. Navigate to **SETTINGS** > **SYSTEM**.
2. Go to the **SUPPORT PACKAGE** tab, then press **SAVE SUPPORT PACKAGE**.
3. Save the support package to a USB storage device or connected network share.

Note: It is recommended to use USB 3.0 with 64 GB memory capacity and exFAT file system format to decrease the transfer time of files to and from the storage device.

The time needed to create a support package depends on the size of the database and the USB storage device used. User can continue to operate the instrument while the support package is being generated. Do not remove the USB storage device before the process is completed (Figure 54). When the download is completed the message "`Support package successfully saved`" is displayed in the message bar.

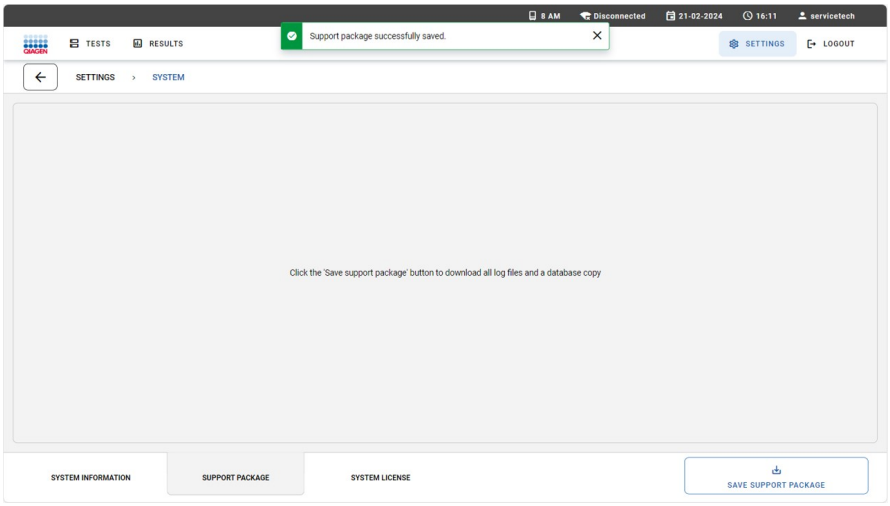


Figure 54. Save log files screen.

6. Operating Procedures

Before proceeding, we recommend that you familiarize yourself with the features of the instrument by referring to Section 3 General Description.

Note: The figures shown in this user manual are only examples and may differ from assay to assay.

6.1. Use of the QIAstat-Dx Rise software

This section provides a description of all the available QIAstat-Dx Rise features and options that enable customization of the instrument settings.

Note: If you need to refresh the screen you are working on, switch to another screen and back again.

6.2. Main screen

In the main screen, it is possible to view the status of the instrument and navigate to different sections (Figure 55).

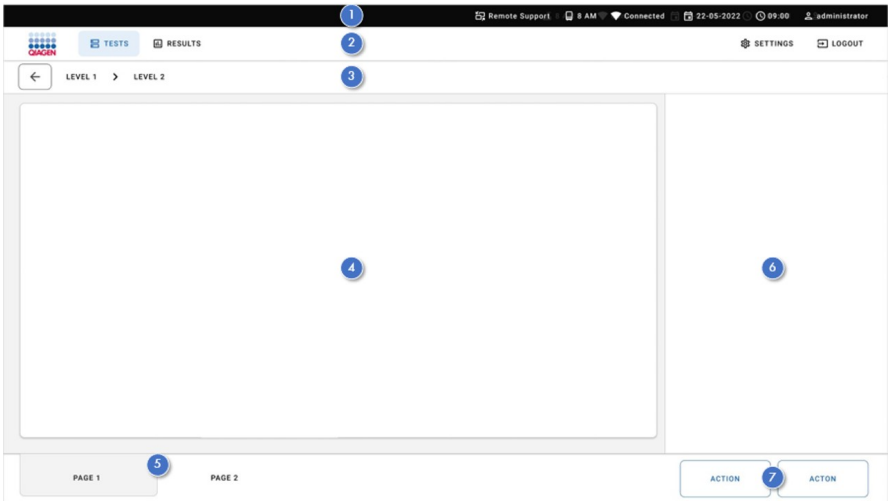


Figure 55. Main screen of the QIAstat-Dx Rise software.

1	Status	**5**	View options/details
2	Main navigation	**6**	View tabs
3	Secondary navigation	**7**	View actions
4	View area		

6.2.1. Status bar

The status bar provides information about the status of the instrument. The information whether the remote support functionality is enabled (see Section 9.1 Remote support), number of installed AMs, connection status, instrument date and time, and the user ID of the logged-in user appear on the right status (Figure 56).



Figure 56. Status bar of the QIAstat-Dx Rise.

6.2.2. Main navigation bar

The main navigation bar provides efficient access to the following submenus: **TESTS**, **RESULTS** (left side), **SETTINGS**, and **LOGOUT** (right side) (Figure 57).



Figure 57. Main navigation bar of the QIAstat-Dx Rise.

Table 3 shows the options that are available to the user through the main navigation bar.

Table 3. Main navigation bar options

Name	Button	Description
Tests	TESTS	Opens the TESTS screen
Results	RESULTS	Opens the view RESULTS screen
Settings	SETTINGS	Opens the SETTINGS submenu
Logout	LOGOUT	Logs the user out

When **LOGOUT** is pressed, a dialog box is displayed asking confirmation to logout or to cancel. After confirmation, the user is logged out and is redirected to the Login screen, described in Section 4.5 Initial start-up of QIAstat-Dx Rise.

Note: Even after the user logged out, the system will continue to run tests in progress or queued tests which are confirmed to run.

The user is automatically logged out if there is no interaction with QIAstat-Dx Rise for a predefined period of time. The time period can be configured by an administrator as described in Section 6.3.2 General settings. In case of an automatic logout, the application moves to the Login screen.

The automatic logout timer is reset each time the user touches the application screen.

A message is displayed at the top of the screen informing the user that the automatic logout is about to occur. This message appears 30 seconds before the automatic logout occurs (Figure 58).

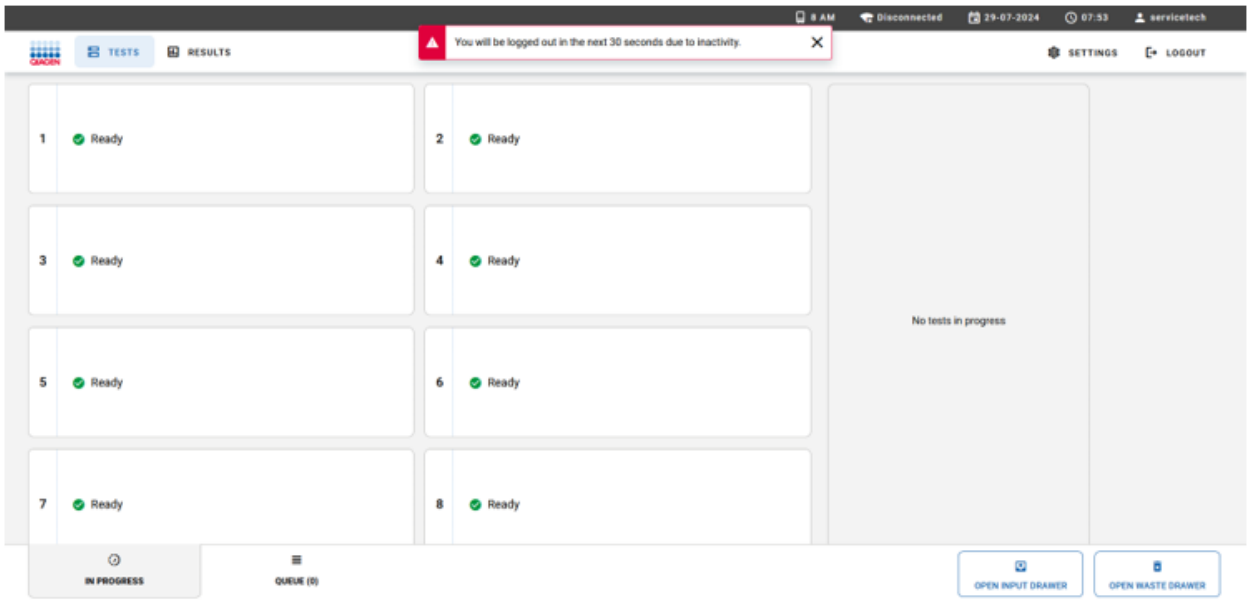


Figure 58. Automatic logout warning.

Note: If the input and waste drawers are open or the queue is not yet confirmed, the automatic logout timer is stopped and will restart as soon as the user exits the application.

6.2.3. View area

The information displayed in the main view area varies according to the state of the user interface. Results, summaries, configurations, and settings are displayed in this area upon entering different modes and selecting items from the menus described below (Figure 59).

Depending on the content, further options may be available through the view options, view tabs, and view actions menu.

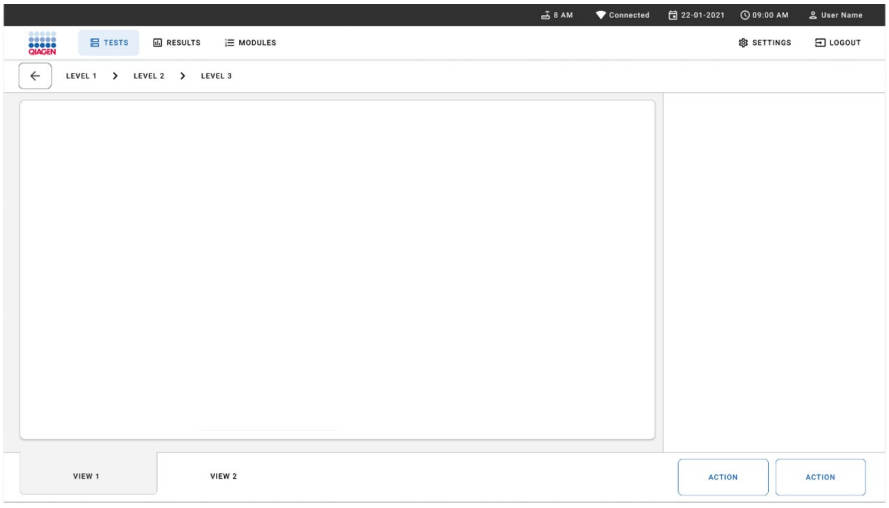


Figure 59. View area of the QIAstat-Dx Rise.

6.2.4. Submenu bar

The submenu bar provides access to context-dependent functions. The content depends on the current submenu (Figure 60).



Figure 60. Submenu content area of the QIAstat-Dx Rise.

6.3. Settings menu

The **SETTINGS** menu is accessible from the main menu bar (Figure 61). **Assay Management**, **General Settings**, **Connectivity**, **System**, **User Management**, and **CHANGE PASSWORD** options can be found under **SETTINGS** menu.

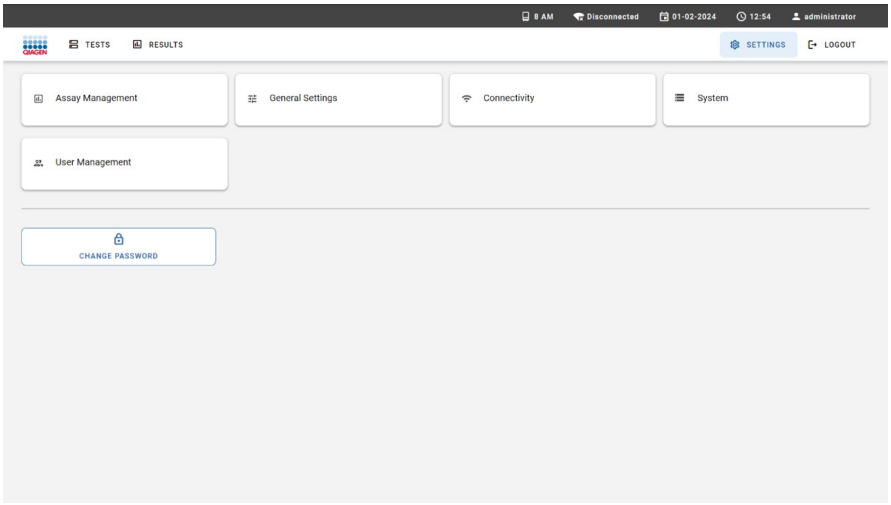


Figure 61. Settings menu screen.

Note: Changes to settings that may affect test runs that are being processed by the device could lead to cancelation of running or queued tests. For this reason, the application is restricting when a user can perform these changes so the workflow is not compromised. The instrument needs to be in idle state before any changes to the settings can be applied.

The instrument is considered in idle state when:

- There are no cartridges in the input tray.
- The input tray is closed.
- The waste tray is closed.
- There are no cartridges gripped by the robotic arm.
- There are no cartridges in the scan station.
- There are no cartridges in an AM (i.e. no ongoing test runs)

6.3.1. Assay management

The **ASSAY MANAGEMENT** menu provides information about the assays installed on the QIAstat-Dx Rise. Press **ASSAY MANAGEMENT** to see the installed assays (Figure 62). Select the applicable assay to view the assay details. Administrators can install new assays (Figure 62).

Important: Administrators can install new ADF versions, but must ensure that only assays released in the respective region for the QIAstat-Dx Rise are installed.

Press **IMPORT ASSAY** to import new assays. The Assay Import view opens and lists all accessible storage volumes. Assay Definition Files (.asy) can be imported from a USB storage device or a network share.

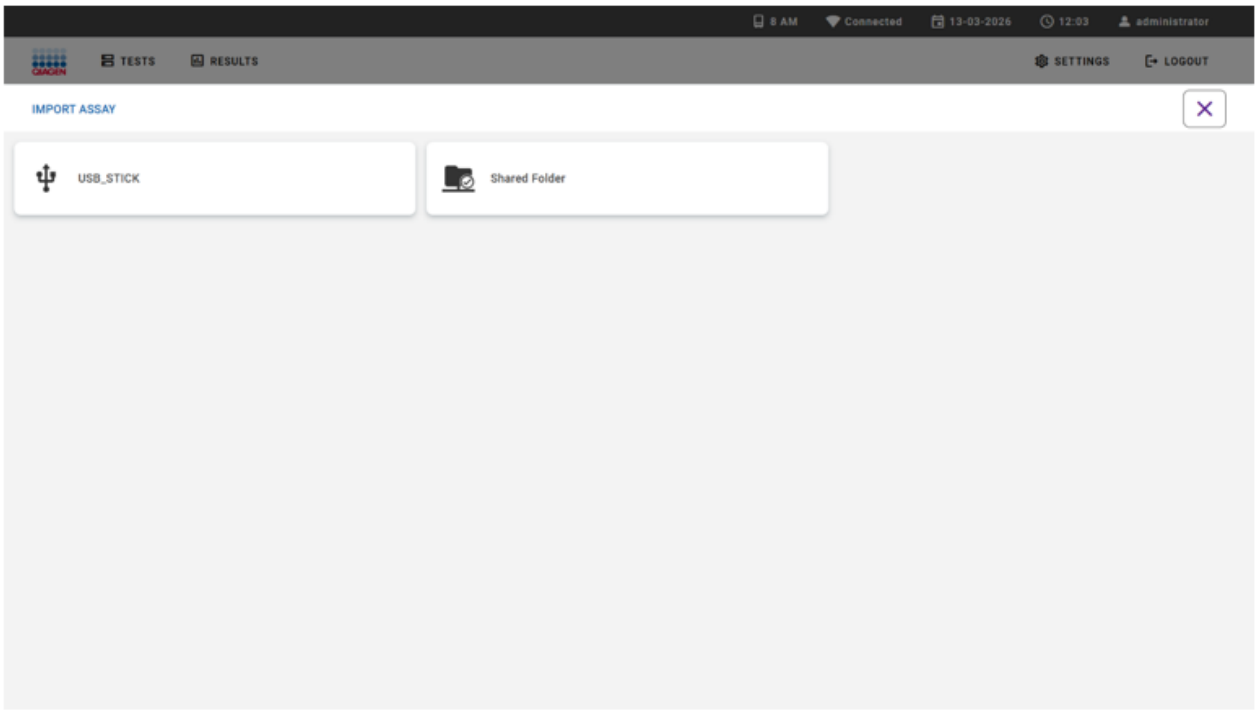


Figure 62. Assay Management screen showing all accessible storage volumes.

After selecting a storage volume, all available .asy files located in the root directory are displayed (Figure 63).

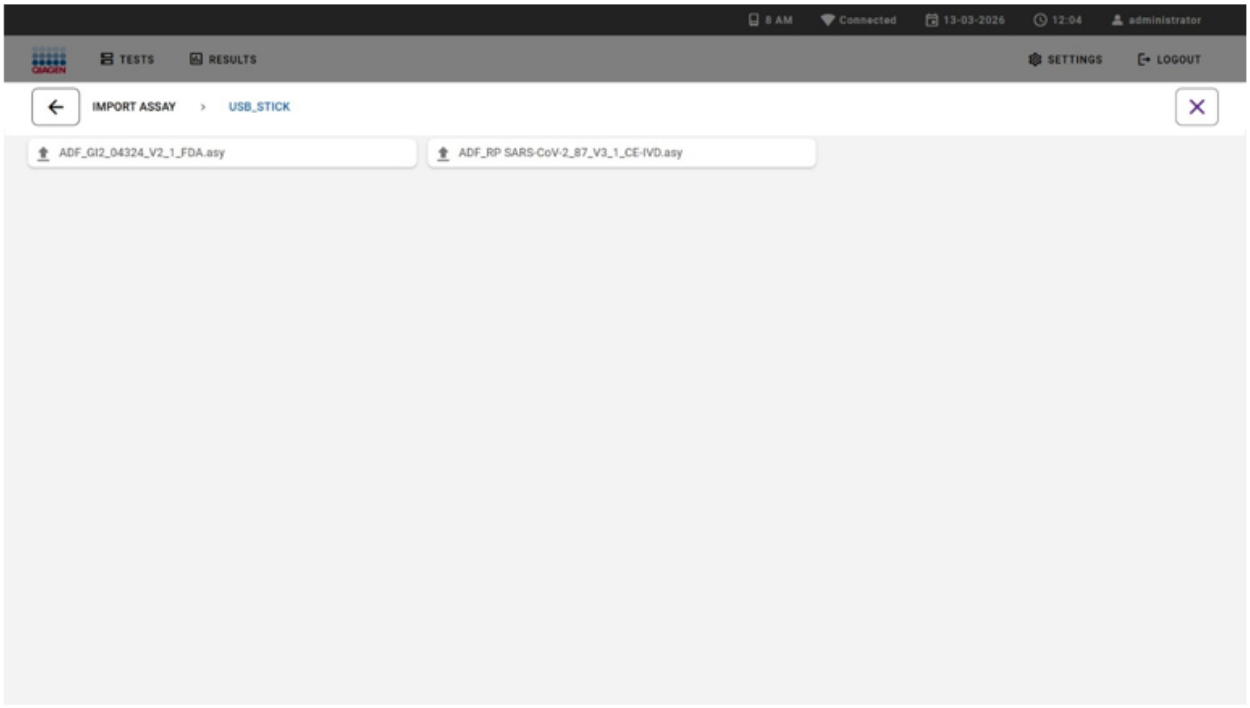


Figure 63. Assay Management screen showing all available .asy files on selected storage volume.

If the selected volume does not contain any .asy file, the file selection window displays the message: "No Assay Definition File found on this drive! Please ensure that the .asy file is correctly copied or select a different drive" (Figure 64).

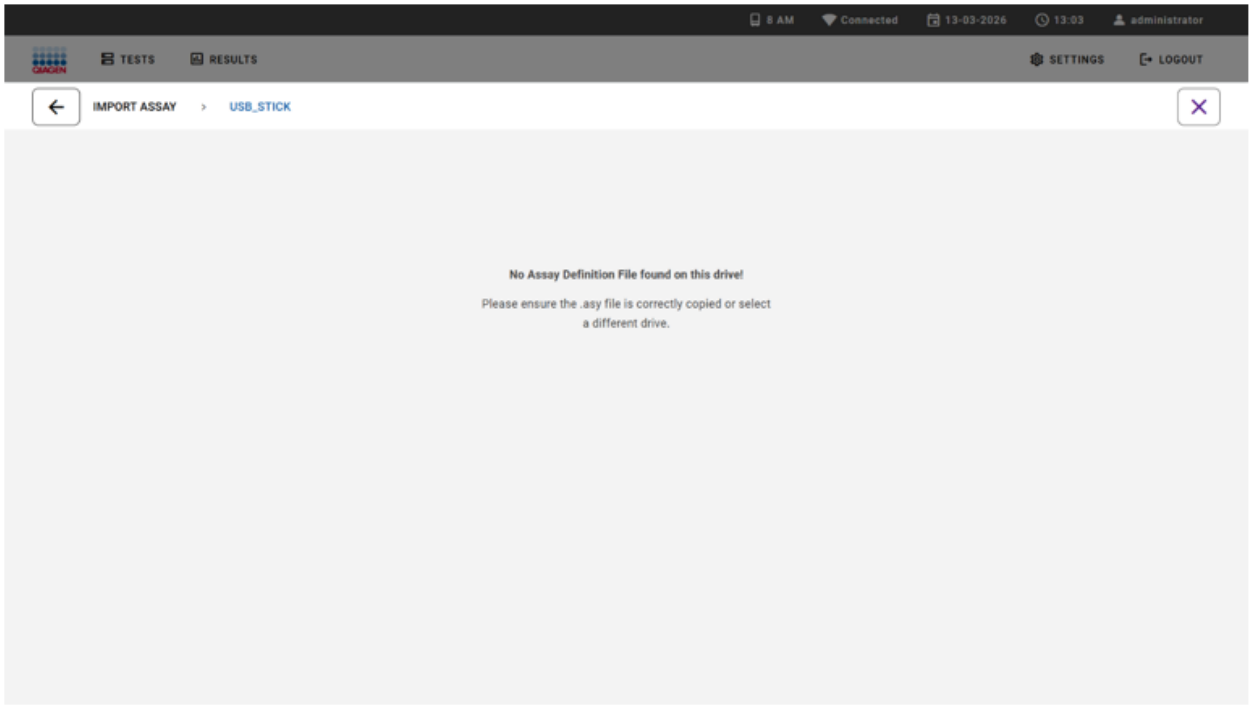


Figure 64. Assay Management screen showing error message in case selected storage volume does not contain any .asy file.

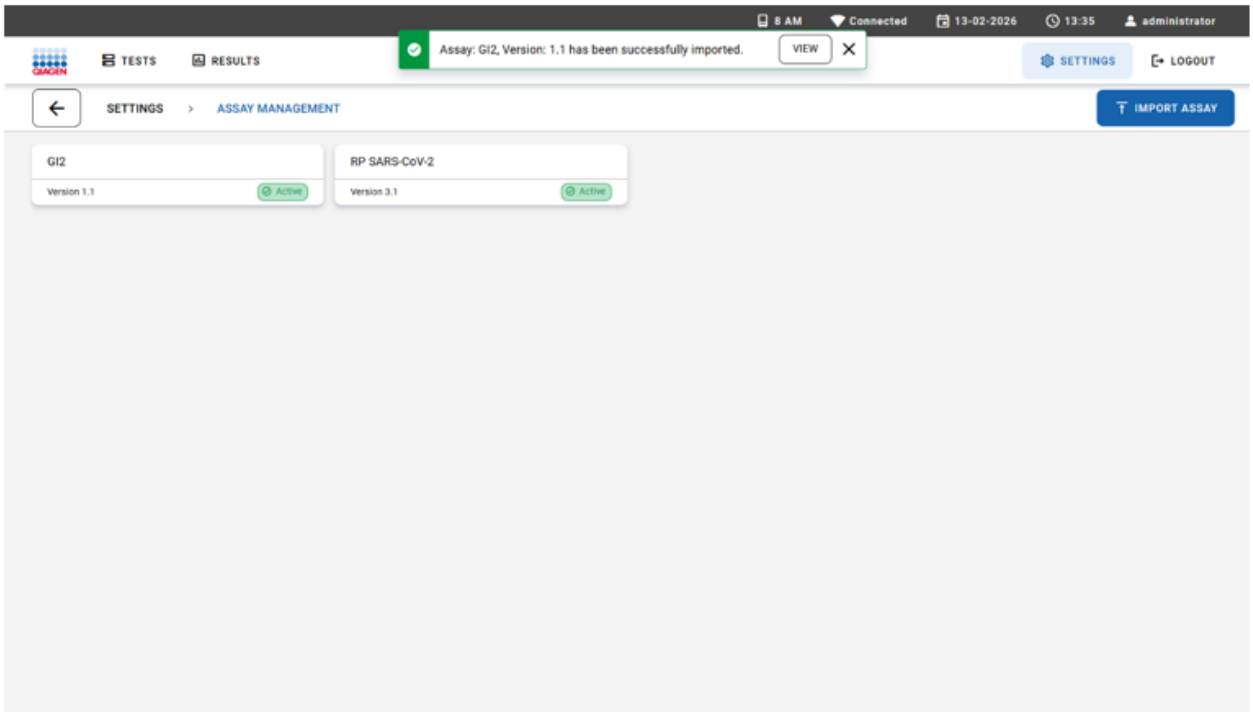


Figure 65. Assay management screen including message about successful assay import.

Tap the assay to view the assay details. The Assay Details screen displays all information for the selected assay. GENERAL INFO displays technical information such as name, version, and ID of the assay. SAMPLE TYPES, CONTROLS (Internal Controls (IC)), and ANALYTES are displayed as defined by the assay (Figure 66). The LIS assay name must be unique.

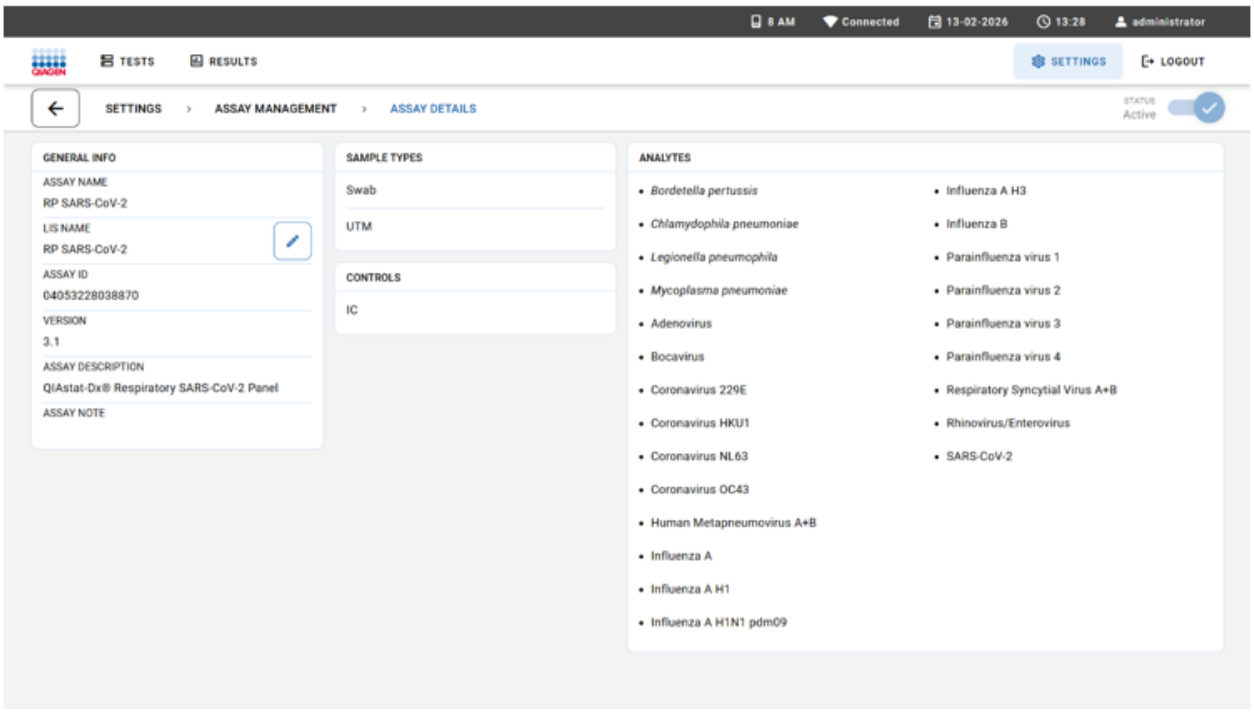


Figure 66. Assay Details screen.

6.3.2. General settings

The **GENERAL SETTINGS** menu is only available to administrator. In **GENERAL SETTINGS**, the patient ID can be made mandatory, the amplification curves can be hidden from PDF reports, and the date and time settings can be edited (Figure 67).

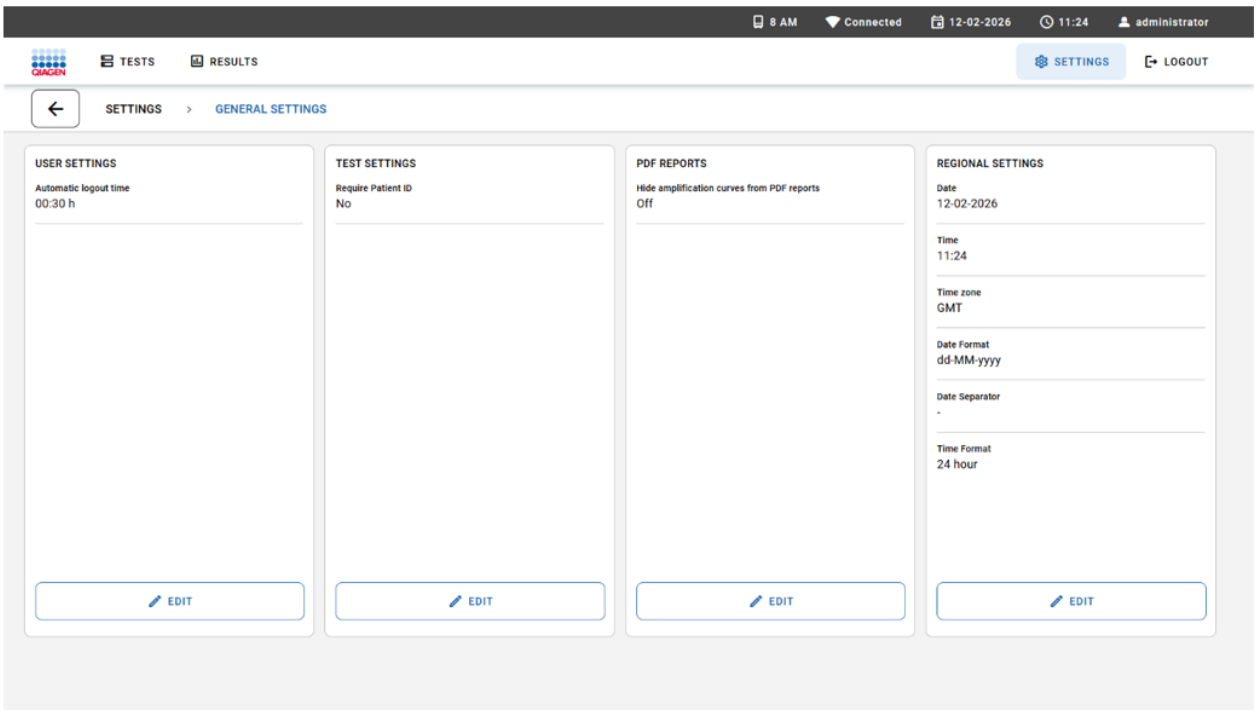


Figure 67. General settings screen.

Changing the automatic logout time

1. In **USER SETTINGS** area, press **EDIT**.
2. To change the automatic logout time, enter the desired time using the numeric keypad. The range of the time is described by the following values:
   - **Minimum**: 5 minutes
   - **Maximum**: 99 hours 59 minutes
   - **Default**: 30 minutes

   Note: Time format is in hh:mm.

   Note: If an invalid input is entered, the border of the input field turns red, Save button is disabled, and the following message appears: "`Must be in range: 00:05h–99:59h`".

Enforcing the use of a patient ID

1. Press **EDIT** in the **TEST SETTINGS** area to enforce the use of a patient ID.
2. Select **Require Patient ID**, and press **SAVE**.

   Note: The patient ID provided by the user shall have a minimum length of 1 character and a maximum length of 25 characters and can only include letters (upper case or lower case), digits, and special characters. The characters \ & ~ | ^ are not allowed.

   Note: The same patient ID can be used for multiple samples.

Regional settings

Changes to date, time, time zone, date format, date separator, and time format can be performed in **REGIONAL SETTINGS** (Figure 68).

1. Press **EDIT** in the **REGIONAL SETTINGS** area.
2. Define the changes to the settings listed in Table 4 as needed and press **SAVE**.

Table 4. Regional setting

Name	Description
Date	Set the date. **Note**: Even if only the day, month or year are to be modified, they must all be selected together. Otherwise, the date change will not be saved correctly.
Time	Set the time
Time Zone	Select the time zone. The system automatically shifts to daylight saving time according to the rules of the selected time zone.
Date Format	Select a date format: • DD-MM-YYYY (default) • DD-MM-YY • MM-DD-YYYY • YYYY-MM-DD • YY-MM-DD
Date Separator	Select a date separator: • (default) • _ • / • . • :
Time Format	Select a time format: • 24 hours (default) • 12 hours AM/PM

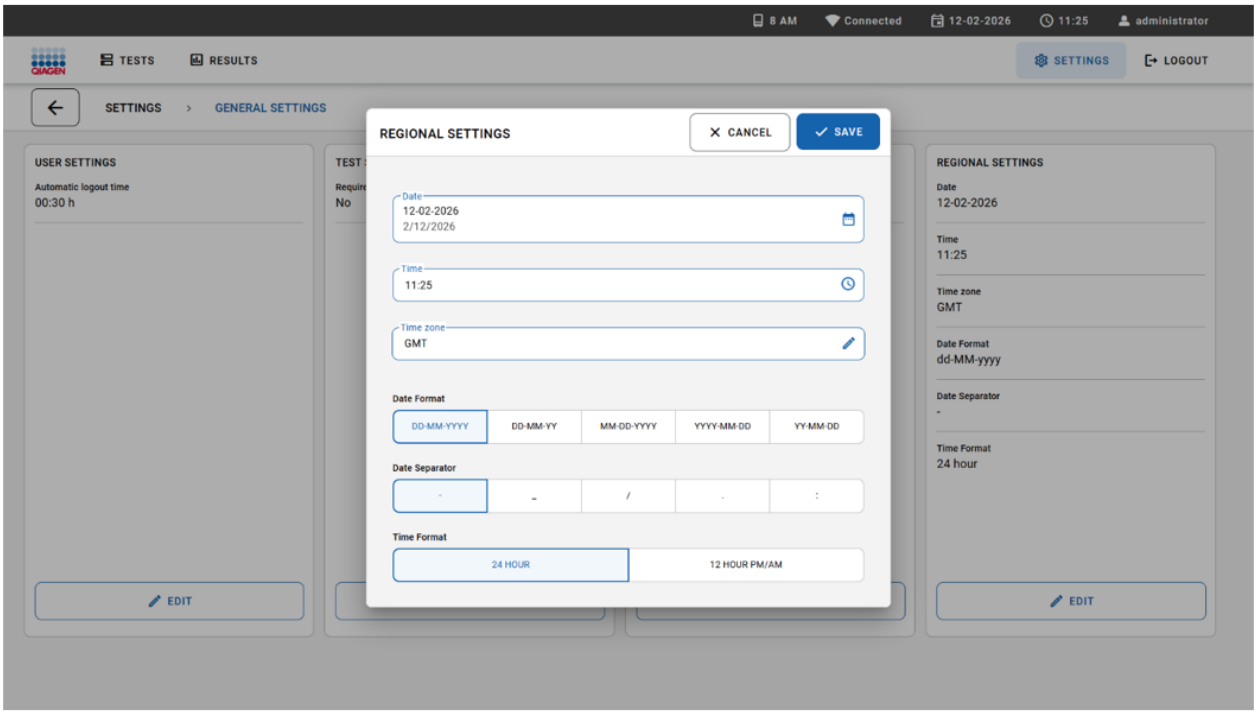


Figure 68. Regional settings.

Note: Manual data and/or time settings is only possible under these conditions:

- If **Host communication** is disabled (off) in the QIAsphere tab; and
- If the **Date** and **Time** input fields are enabled in **Regional Settings** menu

Important: After changing the time zone, the instrument must be restarted.

6.3.3. Connectivity settings

The **CONNECTIVITY** menu is available to users with the role administrator when the instrument is in idle state. In the **CONNECTIVITY** menu, users can perform the following actions:

- Configure the Network Adaptor settings
- Enable Remote Support
- Configure the HIS/LIS settings
- Configure Network Shares
- Configure QIAsphere settings

Network settings

Select the **NETWORK** tab to view the **NETWORK ADAPTOR** and **REMOTE SUPPORT** settings (Figure 69). In the **NETWORK ADAPTOR** menu, the following information is displayed (Table 5):

Table 5. Network Adapter setting

Name	Description
MAC ADDRESS	MAC address of the instrument
NETWORK CONFIGURATION	Network configuration • Automatic • Manual
STATUS	Status • Connected • Disconnected • Configuring
IP ADDRESS	IP v4 address with subnet mask, or "Not Assigned" if no IP address is assigned
SUBNET MASK	IP v4 address with subnet mask, or "Not Assigned" if no IP address is assigned
DEFAULT GATEWAY	IP v4 address of Default Gateway
DNS	IP v4 of DNS Server

Additionally, the **REMOTE SUPPORT** functionality can be enabled. For more information about this, refer to Section 9.1 Remote support.

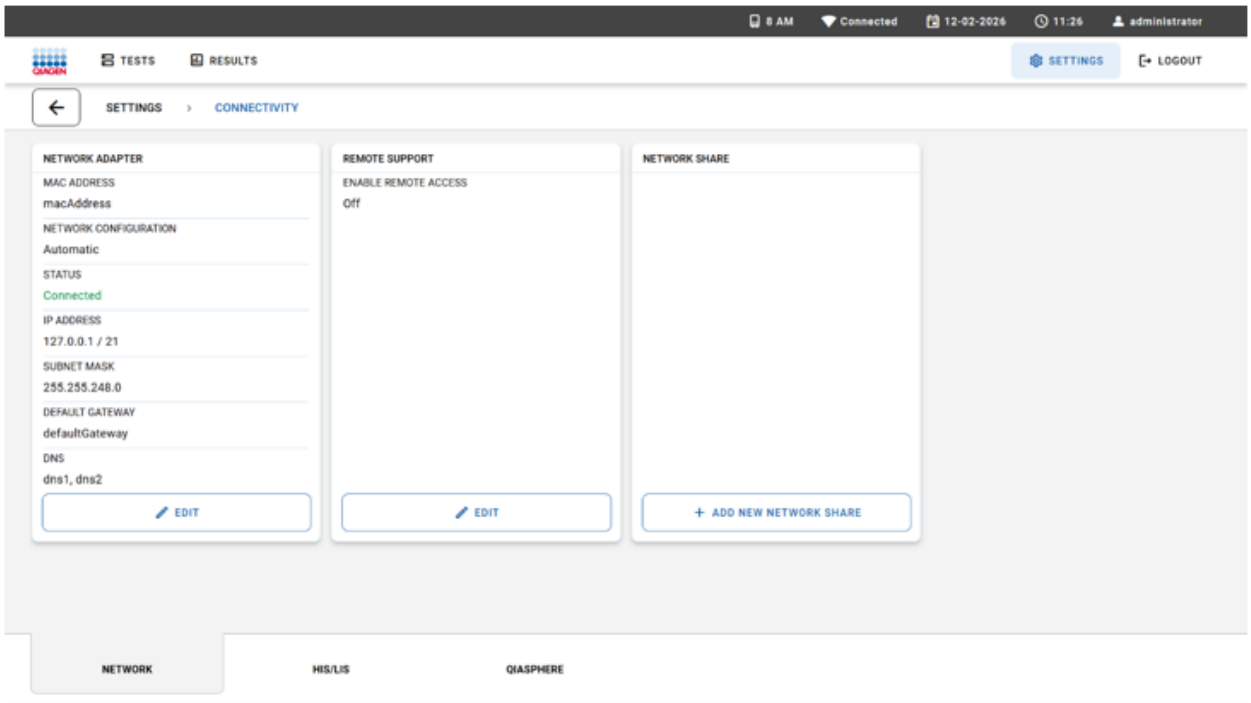


Figure 69. Connectivity screen – Network settings.

Configuring network adapter settings

Press **EDIT** to configure the **NETWORK ADAPTER** settings and select the desired configuration:

- **AUTOMATIC** (Figure 70): When this configuration is active, the network settings will be received from your local DHCP server.
- **MANUAL** (Figure 71): If this configuration is selected, enter the desired network settings according to Table 6.

Table 6. Manual network setting

Name	Description
NETWORK CONFIGURATION	Network configuration ◦ Automatic ◦ Manual
STATUS	Status ◦ Connected ◦ Disconnected ◦ Configuring
IP ADDRESS	Valid IP address (x.x.x.x where x is an octet and must be a decimal value between 0 and 255. The numbers cannot be 0 prefixed unless they are 0)
SUBNET MASK	Valid network mask in IP address form notation
DEFAULT GATEWAY	Valid IP within the configured network range (IP address and Network mask) or empty.
DNS Server 1	Valid IP or empty
DNS Server 2	Valid IP or empty

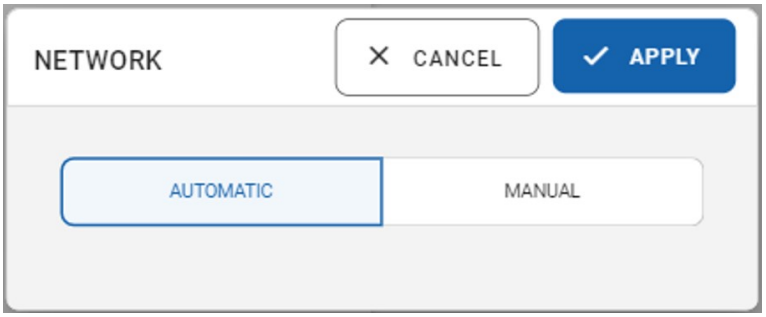


Figure 70. AUTOMATIC network settings.

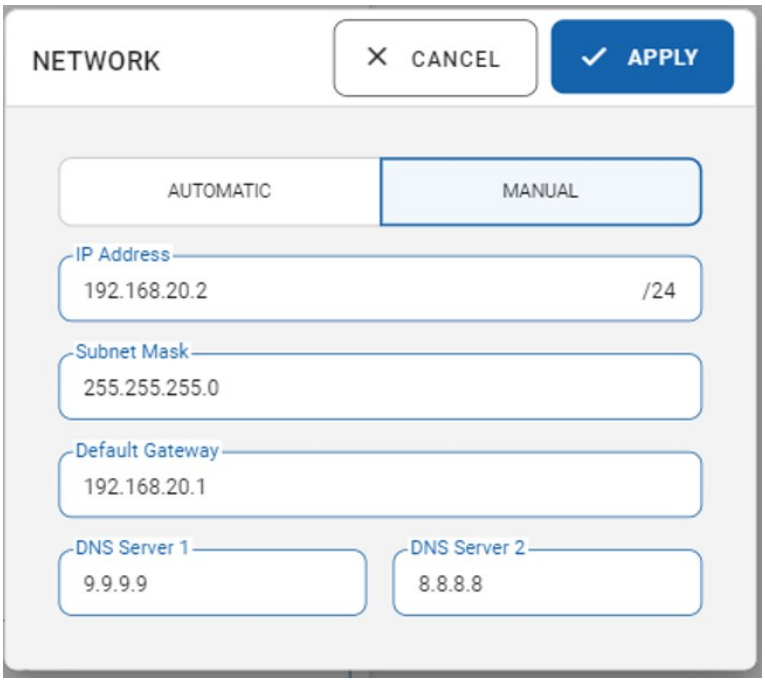


Figure 71. MANUAL network settings.

Administrators can configure network shares. This includes adding, editing, and removing network shares as well as configuring multiple network shares. Press **EDIT** to configure the NETWORK SHARE settings. In the NETWORK SHARE menu, the following information is displayed when editing an existing network share (Figure new) or adding a new network share (Table 7) (Figure 72):

Table 7. Network share

Name	Description	Input requirement
LOCAL ALIAS	The alias is used on the display to show the network share in file selection window. The string on the local alias field is trimmed. **Note**: Value for this field must be unique.	Mandatory field Limited to 15 characters only Alphanumeric input only
NETWORK SHARE FOLDER PATH	This specifies the network share name (i.e. the server) and the exact subfolder that is handled as the root for all read and write operations. If the subfolder does not exist, it will be created whenever there is a write operation. **Note**: Folder path must be unique.	Mandatory field Limited to 255 characters only Alphanumeric input only
DOMAIN NAME	The domain name specifies the network in which the network share is located and where the credentials are stored.	Limited to 50 characters only Alphanumeric input only
USER NAME	Permits access to the network share.	Limited to 50 characters only Alphanumeric input only

Table 7. Network share (continued)

Name	Description	Input requirement
PASSWORD	This is required for authentication. • The password characters can only be displayed while a new password is being created. Otherwise, the characters are hidden from the user. • When editing an existing network share, the characters of the current password cannot be displayed. • An existing password can still be edited. In this case, the current password will be deleted and a new password can be created. **Note**: Canceling the network share edition will restore the current password.	Limited to 50 characters only Alphanumeric input only

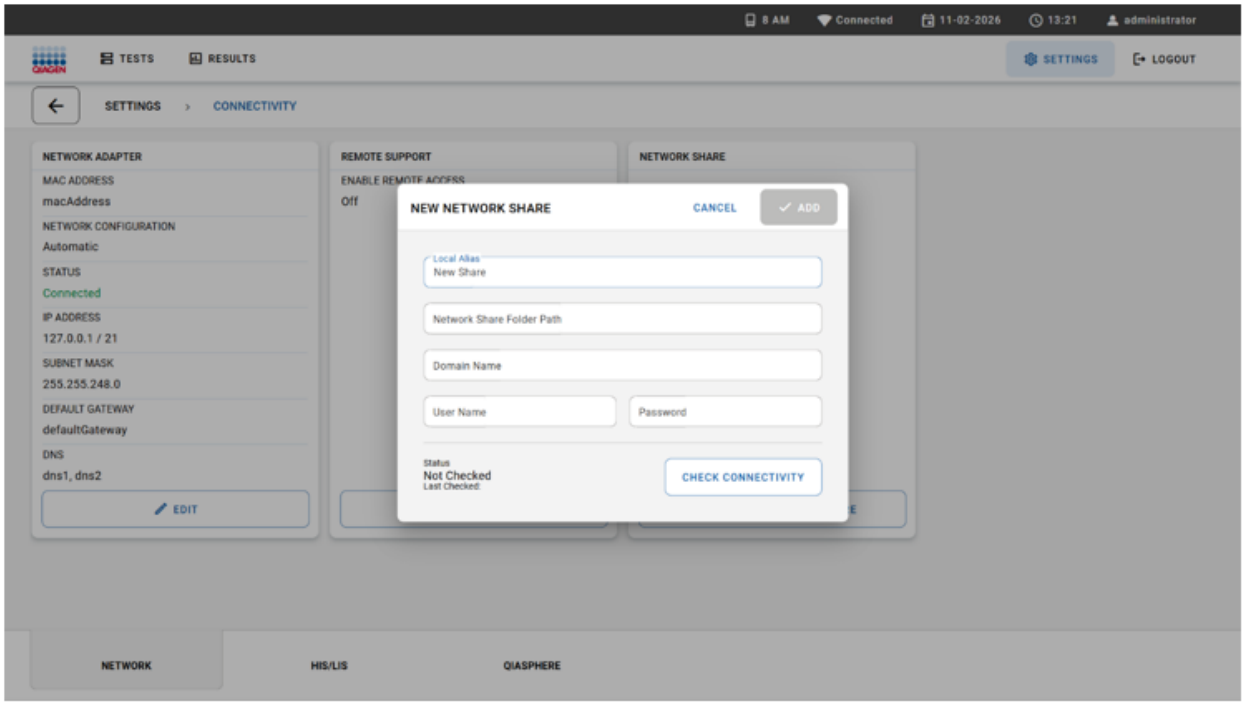


Figure 72. Adding a network share dialog box.

After adding all mandatory information, press **CHECK CONNECTIVITY** to check if the connection is successful. The message "`New network share created successfully`" appears to indicate that the network share addition is successful.

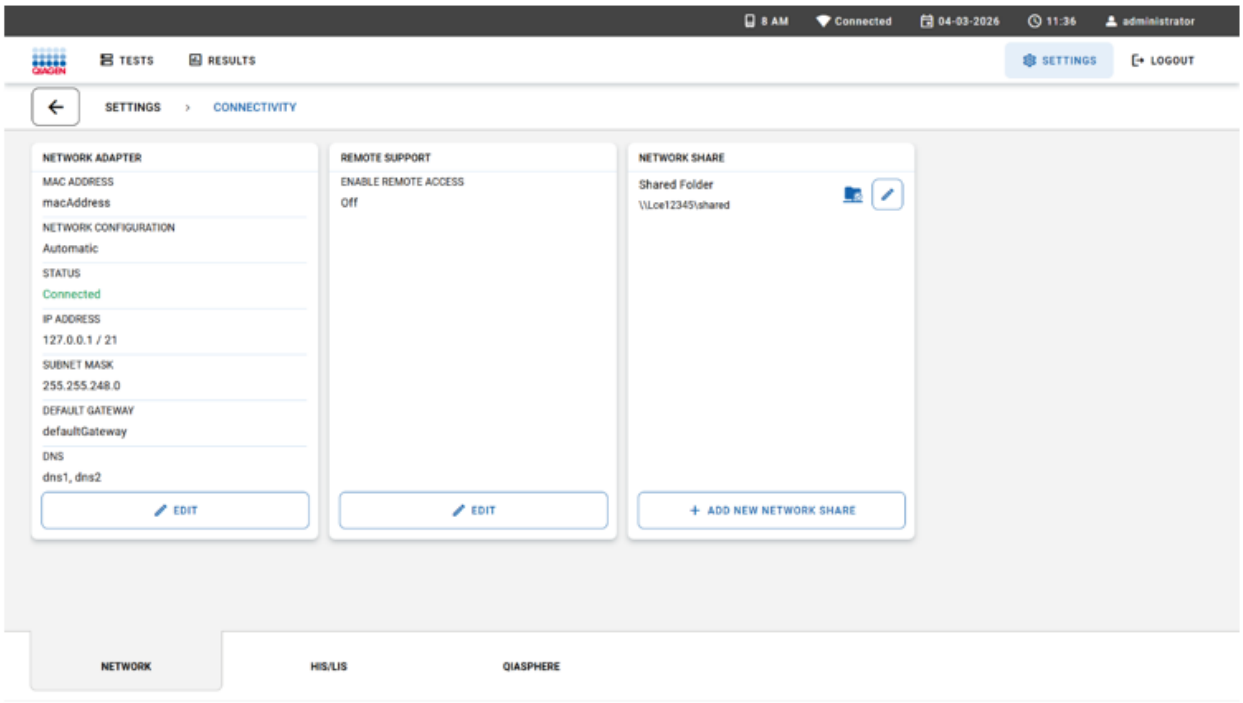


Figure 73. Successful notification for adding a network share.

Editing a network share

The settings for the available network shares can be edited. To modify, click **EDIT** to open the EDIT NETWORK SHARE dialog box. This dialog box mirrors the dialog box for adding a network share, with the addition of the **DELETE** button. You can also check for the connectivity after editing the network share settings (Figure 74).

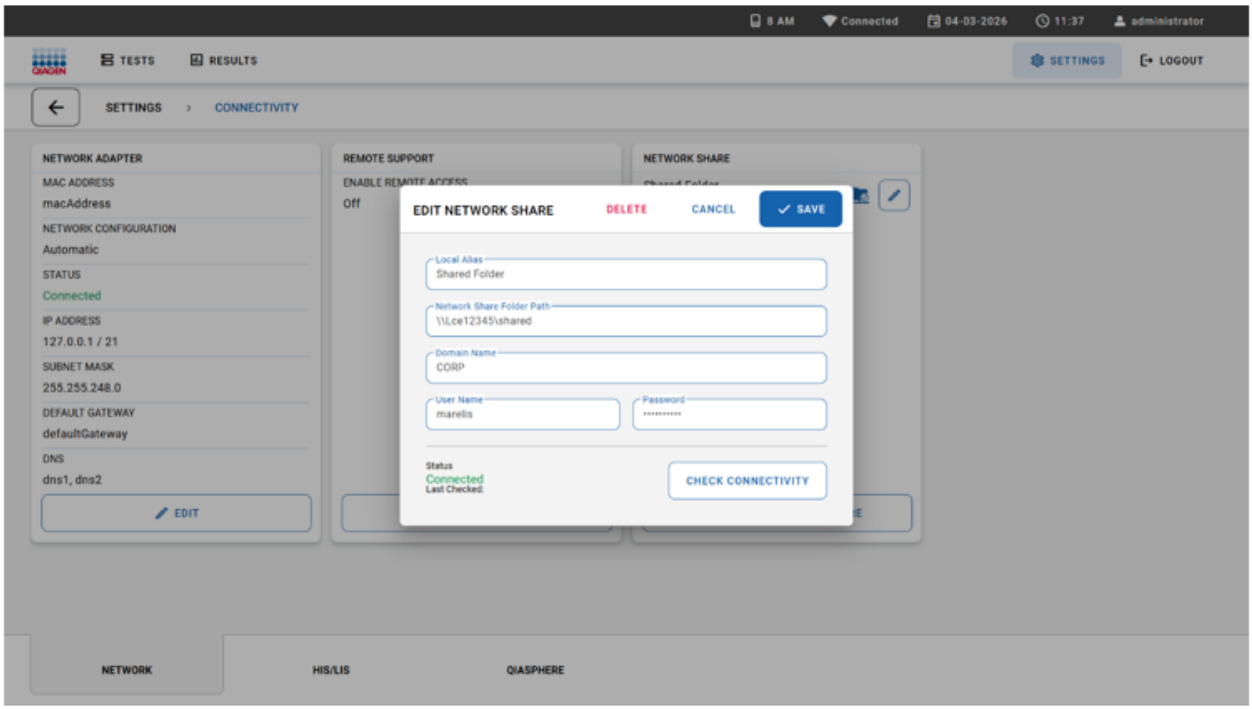


Figure 74. Dialog box for editing the network share with a successful connection.

To save the input, press **SAVE**. This action is only possible if any information (including the connection state) is changed and valid, and all mandatory information is provided. Saving is also possible after checking the connectivity using the **CHECK CONNECTIVITY** button.

If saving is successful, the message "`Changes saved`" appears. If an error occurs while saving, the message "`Failed to save changes`" is displayed in the menu bar.

During saving, the connection is also checked. After a successful saving, an  icon is displayed in Network Share list to reflect the status of a connected or disconnected network share.

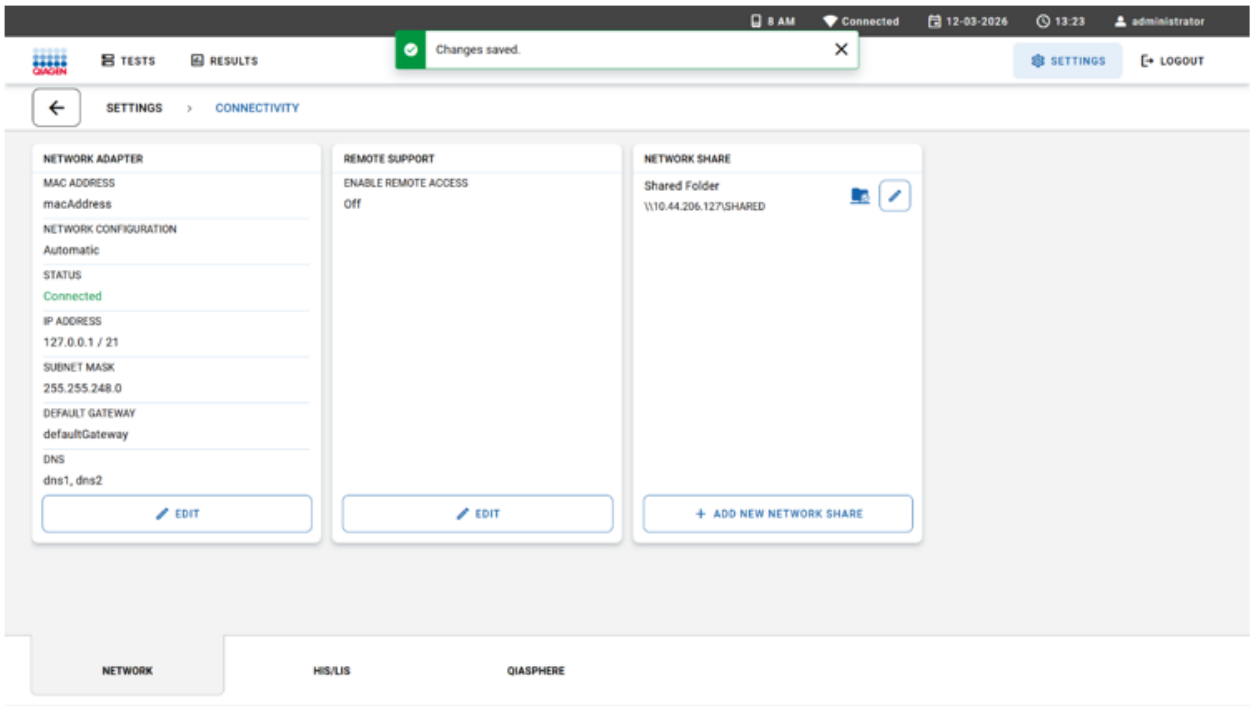


Figure 75. Notification for successful saving.

Deleting a network share

To delete an existing network share, press **EDIT** to open the **EDIT NETWORK SHARE** dialog box. Press **DELETE** to remove the configured network share from the list. Then, press **DELETE** again in the dialog box that appears to confirm the deletion (Figure 76).

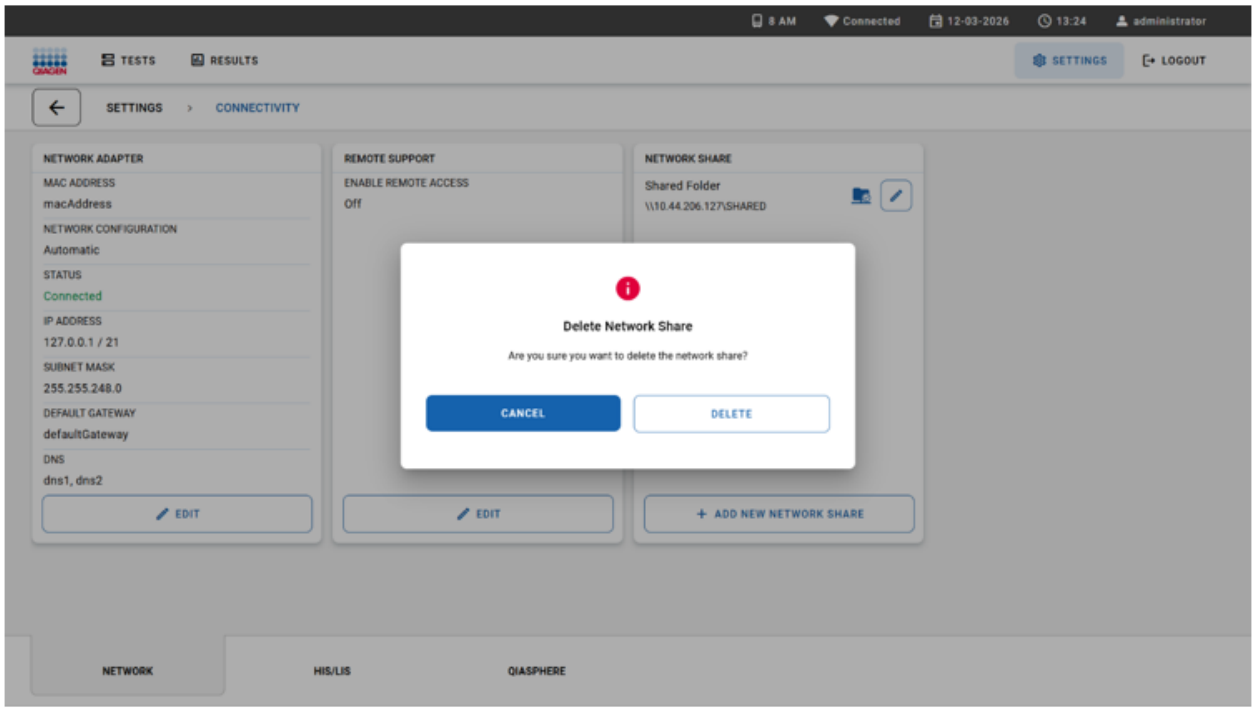


Figure 76. Dialog box confirming deletion of a network share.

After a successful deletion of a network share, the message "`Deleted`" appears (Figure *77*).

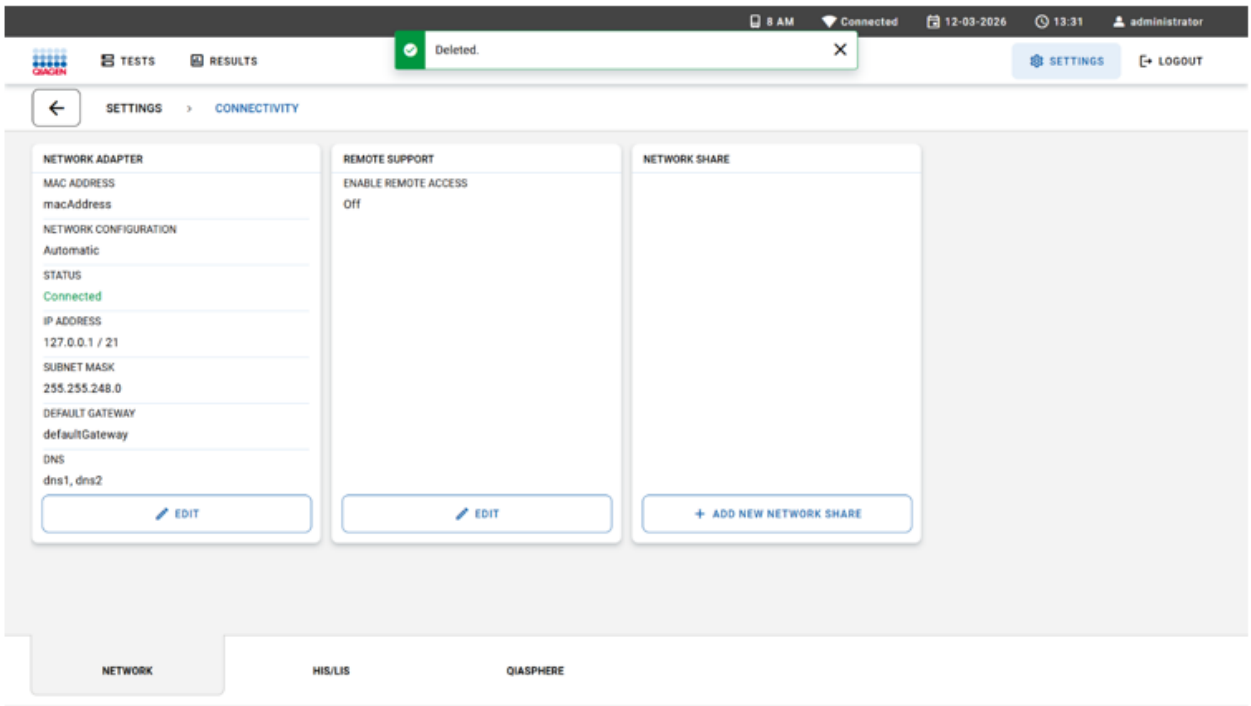


Figure 77. Notification for successful deletion.

HIS/LIS settings

Select the **HIS/LIS** tab to view the HIS/LIS settings. For more details about setting up a HIS/LIS connection, please refer to Section 7 HIS/LIS Connectivity.

Configuring host settings for QIAsphere

Administrators can access the **QIASPHERE** tab to view the HOST SETTINGS (Figure 78). Idle state is required to configure this setting. When editing the HOST SETTINGS, the following information is displayed (Table 8):

Table 8. Host settings

Name	Description
HOST COMMUNICATION	The QIAsphere communication can be enabled or disabled.
HOST ADDRESS	This field defines the IP address if **Host Communication** is enabled. **Note**: Value for this field must be a valid IP address.
HOST PORT	This field defines the TCP port if **Host Communication** is enabled. **Note**: Defined value must be from 1–65535.
PASSWORD	This is required for authentication. • An existing password can still be edited. In this case, the current password will be deleted and a new password can be created. • Only alphanumeric characters can be used with a maximum of 50 characters. **Note**: Canceling the edition will restore the current password. **Note**: This field is available is Host Communication is enabled.
TIMEOUT	This option allows specifying the time in seconds that the instrument waits for response.This field is available if **Host Communication** is enabled. **Note**: Timeout value must be from 1–60 seconds.

When an administrator enables the host communication, a dialog box appears to confirm the action (Figure 78).

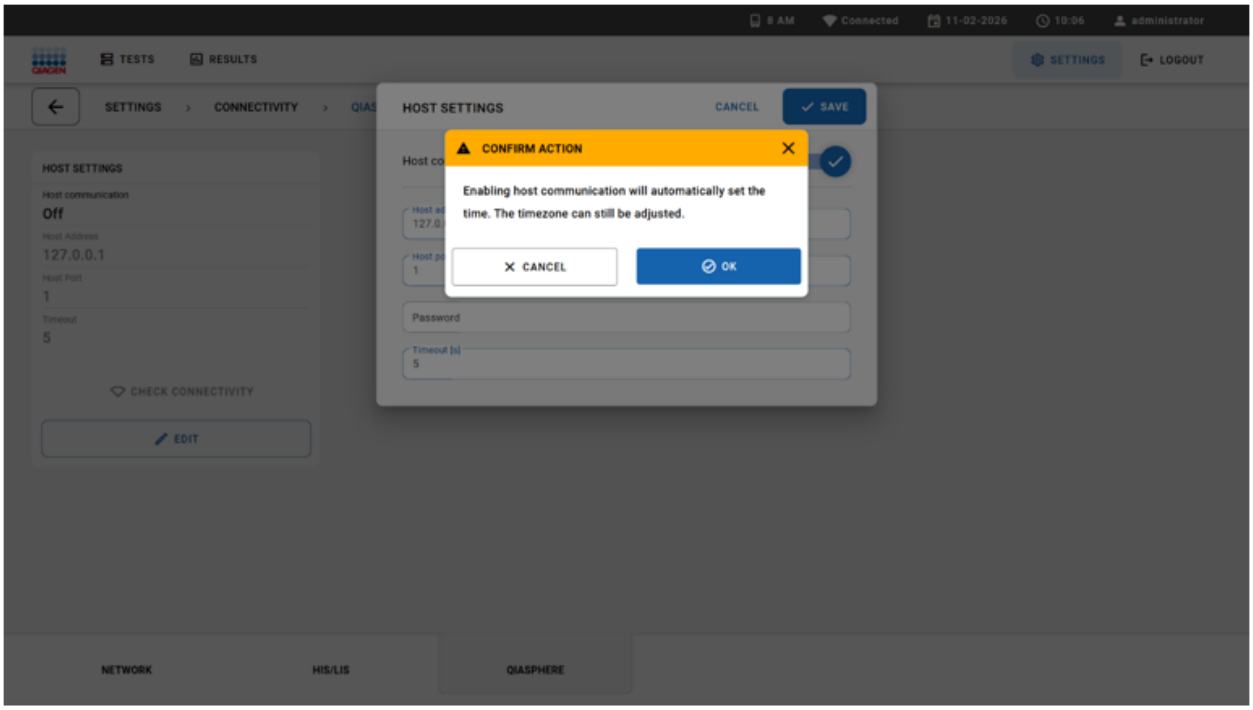


Figure 78. Dialog box to confirm enabling host communication.

The **CANCEL** button returns the user to the previous window and disables host communication. To enable host communication, press **OK** to open the Host Settings dialog box where parameters can be defined (Figure 79). The parameters are validated according to Table 8.

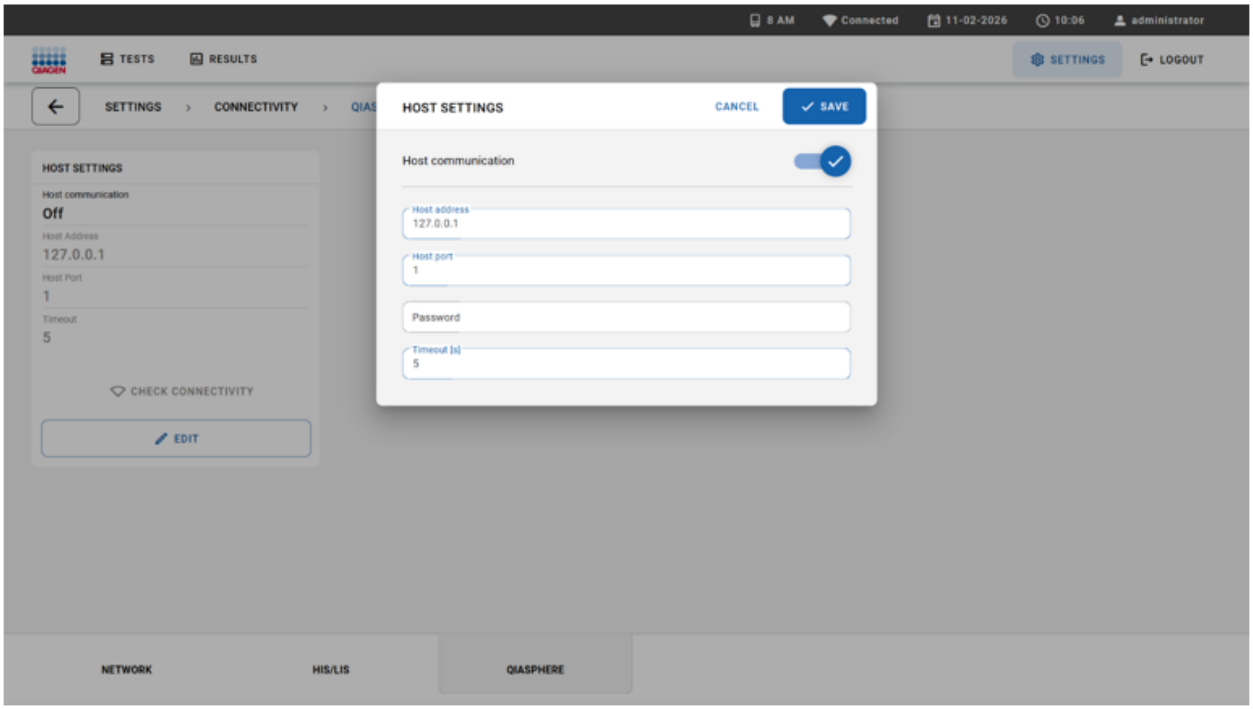


Figure 79. Host settings editing dialog box.

- The **SAVE** button is disabled if any invalid input is entered. An invalid input highlights the field in red with an error message displayed below the applicable field.
- The **CANCEL** button enables the user to close the dialog box without applying any changes.

Checking connectivity to QIAsphere

To check the QIAsphere connection, ensure that all required information is defined in the HOST SETTINGS dialog box, then press **SAVE**. After all settings are saved, press **CHECK CONNECTIVITY**.

Figure 80 shows the message that will be displayed while the connectivity check is in progress.

Note: The **EDIT** button is disabled when a connection check is in progress.

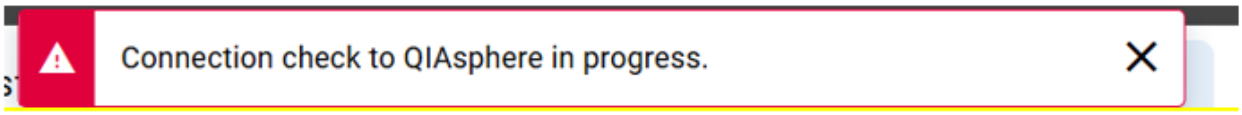


Figure 80. QIAsphere connection check in progress.

If the connection is successful, a message is displayed in the menu bar (Figure 81).

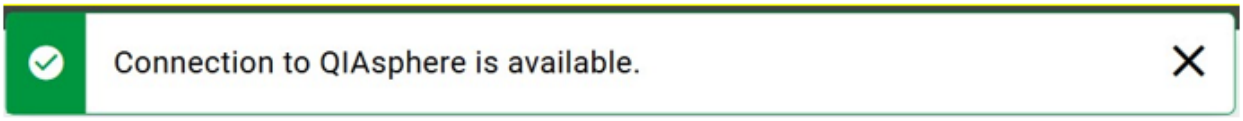


Figure 81. QIAsphere connection check succeeded.

If the connection fails, the following message is displayed (Figure 82):



Figure 82. QIAsphere connection check failed.

Note: The connection failed error message may be displayed after the timeout period expires.

Note: If properly configured, QIAstat-Dx Rise retrieves the UTC time from QIAsphere and adjusts the device time according to the defined time zone in Regional Settings. Variable time zone offsets such as Daylight Saving Time (DST) are considered if they are applicable to the selected time zone and current period of the year. The synchronization is based on the device's state and configuration.

6.3.4. System settings

In the **SYSTEM** menu, users can view the **SYSTEM INFORMATION**, create a **SUPPORT PACKAGE**, and view the **SYSTEM LICENSE**. Select the **SYSTEM INFORMATION** tab to view the **SYSTEM VERSION INFORMATION** and the status of the Analytical Modules (Figure 83).

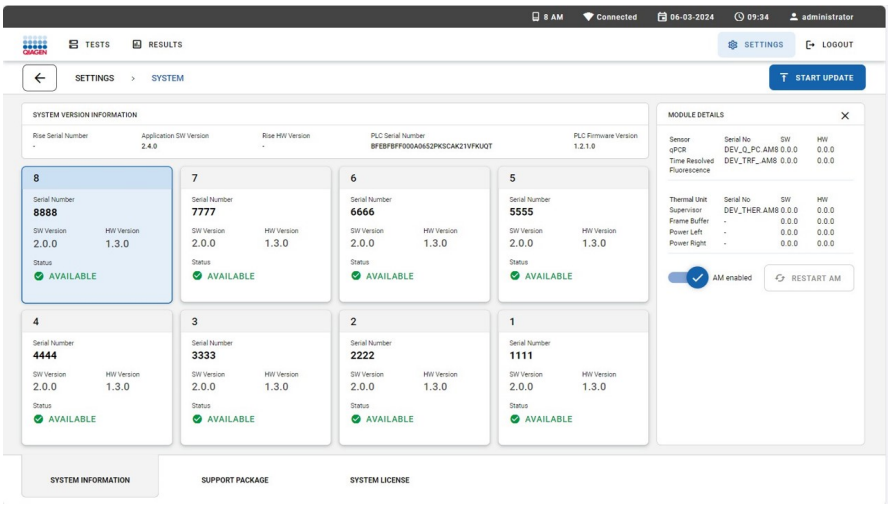


Figure 83. System screen – system information.

In the **SYSTEM VERSION INFORMATION** menu, the following information is displayed (Table 9):

Table 9. System version information

Name	Description
Rise Serial Number	Serial number of the instrument
Application SW Version	Version of the QIAstat-Dx Rise Application Software
Rise HW Version	Hardware version of the instrument
PLC Serial Number	Serial number of the Programmable Logic Controller (PLC)
PLC Firmware Version	Firmware version of the Programmable Logic Controller (PLC)

The Analytical Modules overview displays the following information (Table 10):

Table 10. Analytical modules overview

Name	Description
#	Position of the Analytical Module (AM) in the QIAstat-Dx Rise instrument (1–8)
SW Version	Firmware version of the Analytical Module
HW version	Hardware version of the Analytical Module
Status	Status of the Analytical Module Not installed Initializing Available Test preparation Test running Test finalizing Test done Cartridge ejecting Error Recovering cartridge Excluded

Press the Analytical Module (AM) to view the **MODULE DETAILS** (Table 11).

Table 11. Module details

Name	Description
Component name	Name of the AM component: qPCR sensor Time Resolved Fluorescence Sensor Thermal unit supervisor Thermal unit frame buffer Thermal unit power left Thermal unit power right
Serial number	Serial number (for qPCR sensor, Time Resolved Fluorescence Sensor, and Thermal unit supervisor)
Software version	Firmware version of the Analytical Module
Hardware version	Hardware version of the Analytical Module
AM enabled / AM disabled	Toggle button to enable and disable the Analytical Module Users with the role administrator can disable Analytical Modules. This enables the user to exclude a specific Analytical Module from running samples. This may be useful if a module is suspected of being faulty. In some cases, an Analytical Module is excluded automatically by the system because of an error from which the Analytical Module could not be recovered
Restart AM	Button to restart the Analytical Module without having to restart the entire QIAstat-Dx Rise instrument. The button is only enabled when the selected AM is in an error state.

Note: After excluding a module, the sample queue must be checked and confirmed again, as fewer modules are available, and some samples may run out of onboard stability time.

Select the **SUPPORT PACKAGE** tab to create a **SUPPORT PACKAGE** when you require support from QIAGEN Technical Service (Figure 83). For more details on the **SUPPORT PACKAGE**, please refer to Section 5.8 Creating a support package.

Select the **SYSTEM LICENSE** tab to view the End User License Agreement for the QIAstat-Dx Rise Software and third-party software components.

6.3.5. User management

The QIAstat-Dx Rise Application Software supports multiuser mode. Users must log in before performing any action on the QIAstat-Dx Rise. The actions they are allowed to perform are limited and defined according to the user role assigned to their user profile.

The user management option permits users with “administrator” and “laboratory technician” profiles to add new users to the system, define their rights and user profiles, and activate or inactivate users. Table 12 shows the user profiles that are available.

Table 12. Available user profiles

User role	Rights	Example
Administrator	Manage user repository, manage assays, create support packages, view test details, abort and cancel tests, view system information, ,manually upload to HIS/LIS, import/update assays, manage general settings, manage connectivity, disable analytical modules, and restart analytical modules	Instrumentation/IT responsibility
Laboratory Technician	Manage user repository, manage assays, create support packages, view test details, abort and cancel tests, view system information, and restart analytical modules	Microbiologist, laboratory technician

Accessing and managing users

Follow these steps to access and manage the system users:

1. Press **SETTINGS** in the main navigation bar.
2. Select the **User Management** menu to view the users that can access the QIAstat-Dx Rise (Figure 84). The properties of the user profile are described in Table 13.

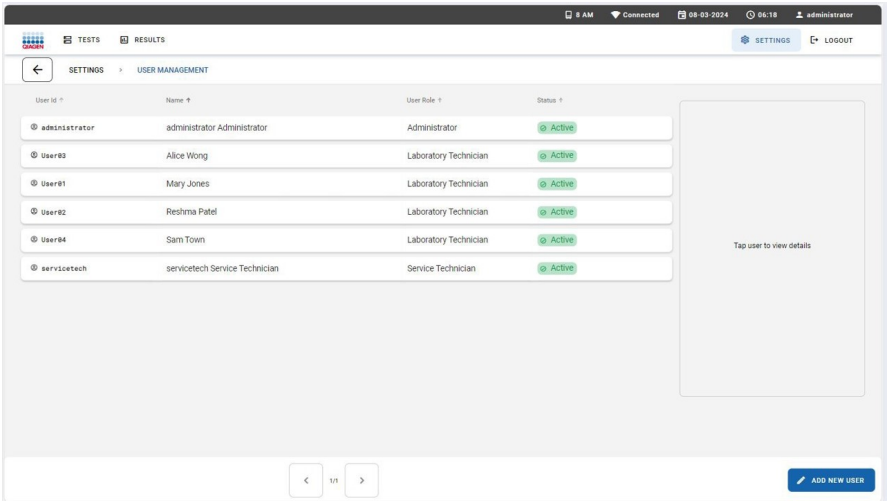


Figure 84. User Management.

Table 13. User profile properties

Name	Description
User ID	Unique identifier with which users can log into the system. A user ID must be between 5 and 50 characters long. **Note**: User ID is case-sensitive.
First Name	The first name of a user. This field is optional and is limited to 50 characters only.
Last Name	The last name of a user **Note**: Values must have at least 1 character and is limited to 50 characters.
User Role	The user role that is assigned to a user determines the privileges that of the user. For an overview of available user roles and rights, refer to Table 12.
Status	By default, newly created users are active. Only active users are able to log into the system.

Adding users

Follow the steps below to add a new user to the system:

1. Press **ADD NEW USER** located on the bottom right of the screen.

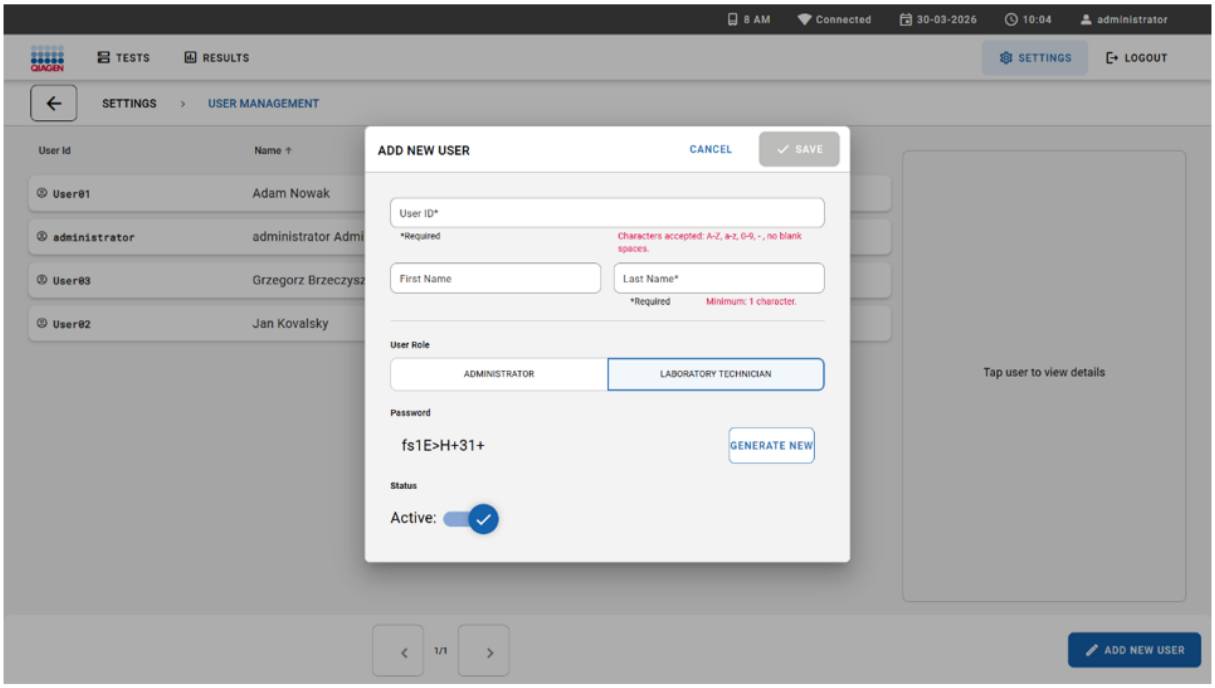


Figure 85. Add new user dialog box.

2. Specify the user ID in the User ID field. This must be unique.

   Note: User ID is case-sensitive.

3. Enter the first name in the **First Name** field. This field is limited to 50 characters only.
4. Enter the last name in the **Last Name** field. This field must have at least 1 character and is limited to 50 characters only.
5. Select one of the user roles. For an overview of available user roles and rights, refer to Table 12.
6. Press **GENERATE NEW** to create a new password. By default, this field automatically generates a password.

   Note: Alternatively, every user can change their own password in the **CHANGE PASSWORD** menu, see Section 6.3.6 Change password.

7. To activate the user, enable **Active**.
8. Press **SAVE** on the upper right corner of the **ADD NEW USER** dialog box to save the changes. Otherwise, press **CANCEL**.

Editing users

Follow the steps below to edit an existing user:

1. Select the user to manage from the list of users (Figure 86).
2. Press **EDIT USER** in the right panel of the user details.

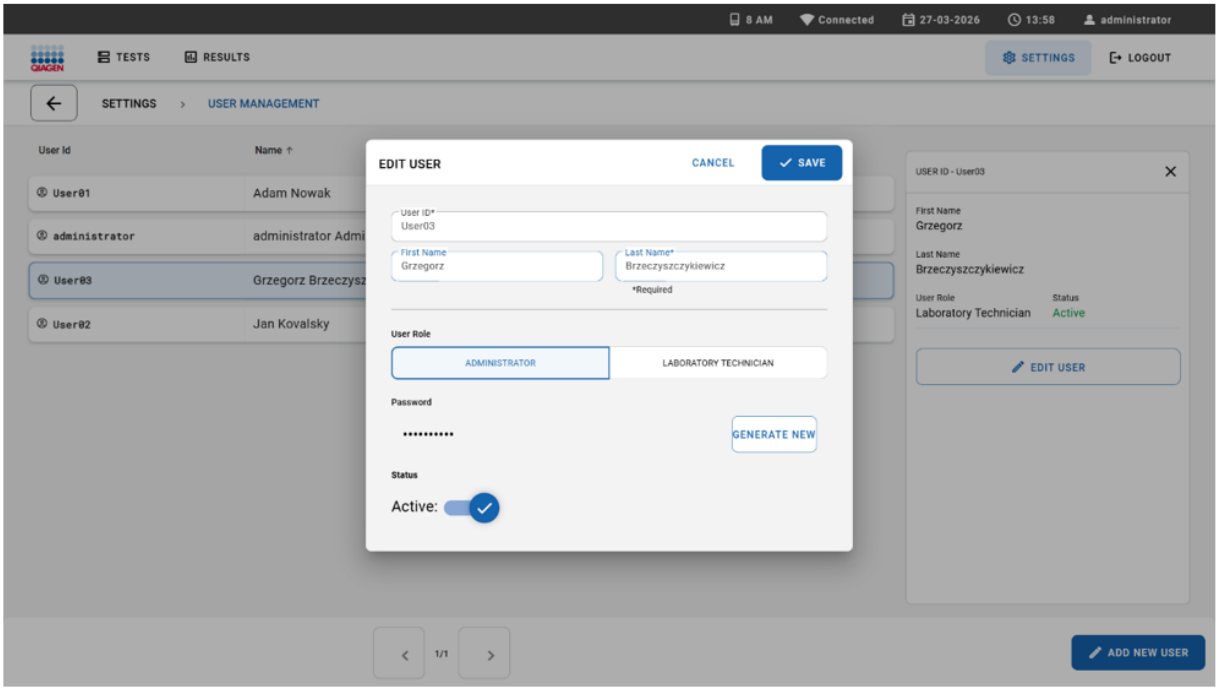


Figure 86. Edit user dialog box.

3. Update the **First Name**, **Last Name**, and **User Role** fields as required.
4. Press **GENERATE NEW** to generate a new password. Alternatively, every user can change their own password in the **CHANGE PASSWORD** menu. See Section 6.3.6 Change password.
5. If the user needs to be disabled, turn off **Active**.

Note: The administrator and service technician user profiles can only be edited to a limited extent.

6.3.6. Change password

Follow the steps below to change the password of a logged in user:

1. Press **SETTINGS** in the main navigation bar.
2. Select the **CHANGE PASSWORD** menu.
3. Enter the current password in the **Old Password** field.

   Important: If the wrong password is entered after 5 consecutive attempts, the account will be locked. The user will be logged out and redirected to the Login page. Only an administrator can unlock the account using the **Edit User** option to generate a new password as described in Section 6.3.5 User management.
4. Enter the new password in the **New Password** field. The new password must fulfill the following criteria:
   - At least 10 characters long
   - At least one uppercase letter
   - At least one lowercase letter

- At least one digit
- At least one special character, e.g., ! @ # ?]

Important: Do not use the "+" symbol when creating a password, in particular not for the Administrator role. Using a "+" symbol will block the user from accessing the system or changing the password.

5. Reenter the new password in the **Repeat password** field.
6. Press **CHANGE PASSWORD**. This button is disabled when the Old Password field is empty or the value entered in the **New Password** field do not meet the criteria.

The change password dialog is shown in Figure 87.

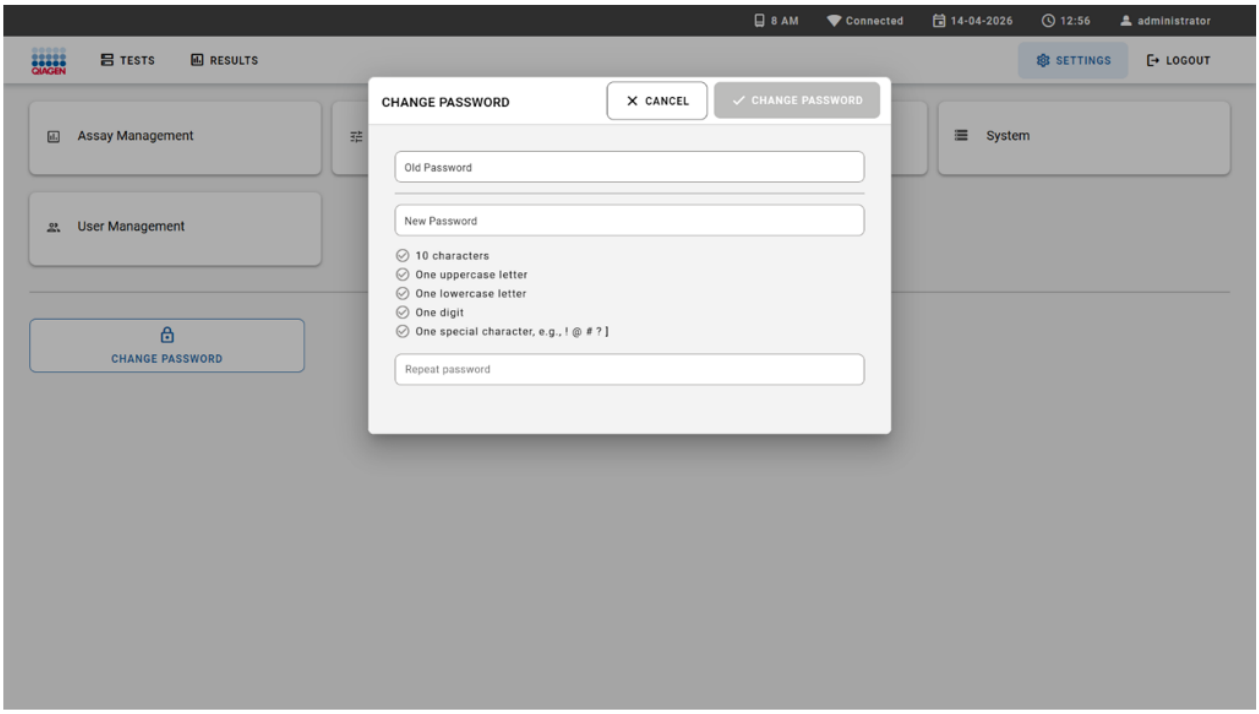


Figure 87. Change password dialog box.

6.4. Shutting down the QIAstat-Dx Rise

The QIAstat-Dx Rise is designed to operate continuously. To shutdown the QIAstat-Dx Rise, press the **On/Off** button on the front of the instrument. The user needs to be logged on to the system to avoid accidental shutdown of the system. If one of the following scenarios is ongoing, a message appears to notify the user that shutdown is not possible:

- Initialization procedure is running
- No user is logged in
- Pending tests are in the queue
- Tests are currently running
- Instrument is busy

If shutdown is not possible, wait for the instrument to finish, then shut it down upon completion or login.

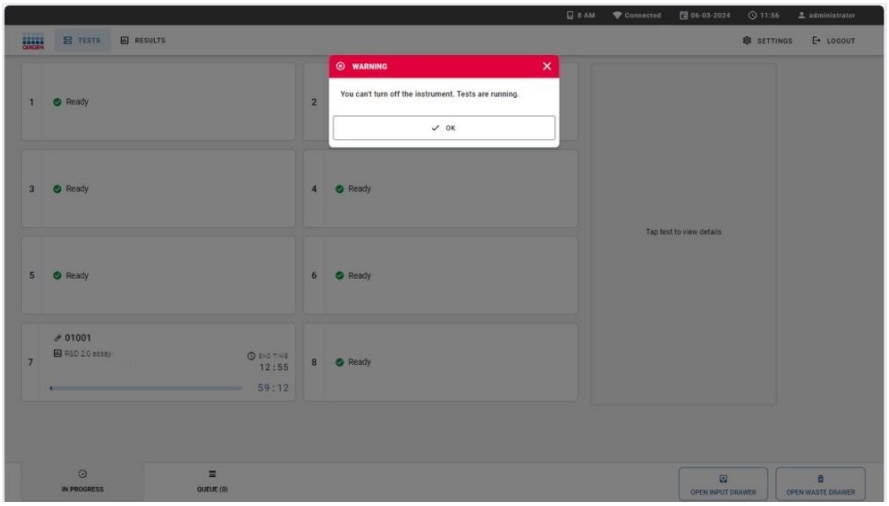


Figure 88. Warning dialog box for shutdown while tests are executed.

To power off the instrument for maintenance, shutdown the instrument first and power off the instrument using the power switch on the side of the QIAstat-Dx Rise.

It is recommended to remove all cartridges from the waste drawer prior to shutting down the instrument. Ensure that both input and waste drawers are closed after loading and wasting the cartridges.

Note: On rare occasions, the instrument may not shut down completely and continuously displays "`Instrument is shutting down`". In this case, use the power switch.

In case of an emergency, power off the instrument directly by using the power switch on the side of the QIAstat-Dx Rise.

Important: This will lead to data and sample loss.

6.5. System status of the QIAstat-Dx Rise

The status of the QIAstat-Dx Rise and the Analytical Modules are indicated by the color of the status indicators (LEDs) on the front of the instrument. The QIAstat-Dx Rise and analytical modules can display any of the following status colors (Table 14).

Table 14. System status of QIAstat-Dx Rise components

Instrument	Status indicator colors	Description
QIAstat-Dx Rise	Solid red	One or more AM is in error state.
	Blinking red	Machine is blocked, which can have the following reasons: • No AM is operational • Initialization failed • Maintenance mode • Waste Tray is full • Temperature is too high • Manual recovery is required
	Solid blue	• Admin password is not set. • There are tests in the queue that may/will run out of stability time.
	Blinking blue	• Initialization procedure is in progress. • Power off procedure is in progress. • Waste tray is getting full.
	Solid green	The instrument is executing tests
	Blinking green	• The instrument is idle and ready to execute tests • The user is loading test or unloading the drawers.
Analytical Module	Solid red	Malfunction
	Solid green	Executing a test
	Blinking green	Initializing
	Solid blue	Standby
	Solid yellow*	Potential malfunction

* If an AM LED status bar is yellow, and you look from outside through the blue door, it appears green.

7. HIS/LIS Connectivity

This section describes the connectivity of the QIAstat-Dx Rise with a HIS/LIS.

HIS/LIS configuration enables the connection of the QIAstat-Dx Rise to a HIS/LIS to perform these actions:

- Activating and configuring communication with the HIS/LIS
- Running a test based on an order from the HIS/LIS
- Sending the result of a test to the HIS/LIS
- Assay configuration for querying and order and sending results

Note: Please ensure that your local network is sufficiently secured against unauthorized access as communication with HIS/LIS is not encrypted.

7.1. Activating and configuring communication with the HIS/LIS

1. Press **SETTINGS** in the main navigation bar while the instrument is in idle state.
2. Select the **Connectivity** menu.
3. Select the **HIS/LIS** tab and press **Edit** in the **HOST SETTINGS** area to select and define the settings listed in Table 15 as needed.

Table 15. HIS/LIS host settings

Setting	Description
HOST COMMUNICATION	Enables the HIS/LIS connectivity This option is disabled by default.
HOST ADDRESS	The host address allows both an IP and a name value of the host. The IP value must be 4 numbers (N.N.N.N) and N must be between 0 and 255.
HOST PORT	The host port defines which port the host is listening. Port must be a value between 1 and 65535.
TRANSFER PROTOCOL	The transfer protocol is compatible with HL7.
LOG HL7 MESSAGES	Debug logging enables logging specific HL7 debug messages for HIS/LIS uploads. **Note**: It is strongly recommended to only turn the logging on for analysis during installation and to turn it off afterwards.
HOSPITAL NAME	Hospital name is an exclusive name to define a DMS or LIS. The hospital name must be between 1–20 characters only. **Note**: Invalid characters are \&~|^
TIMEOUT	The default Timeout is configured as 5 seconds and can be extended up to 60 seconds. This is the maximum time the QIAstat-Dx Rise will wait for a message from the host.
CHECK CONNECTIVITY	The **Check connectivity** button validates the connection between the QIAstat-Dx Rise and the host with the IP and port filled.

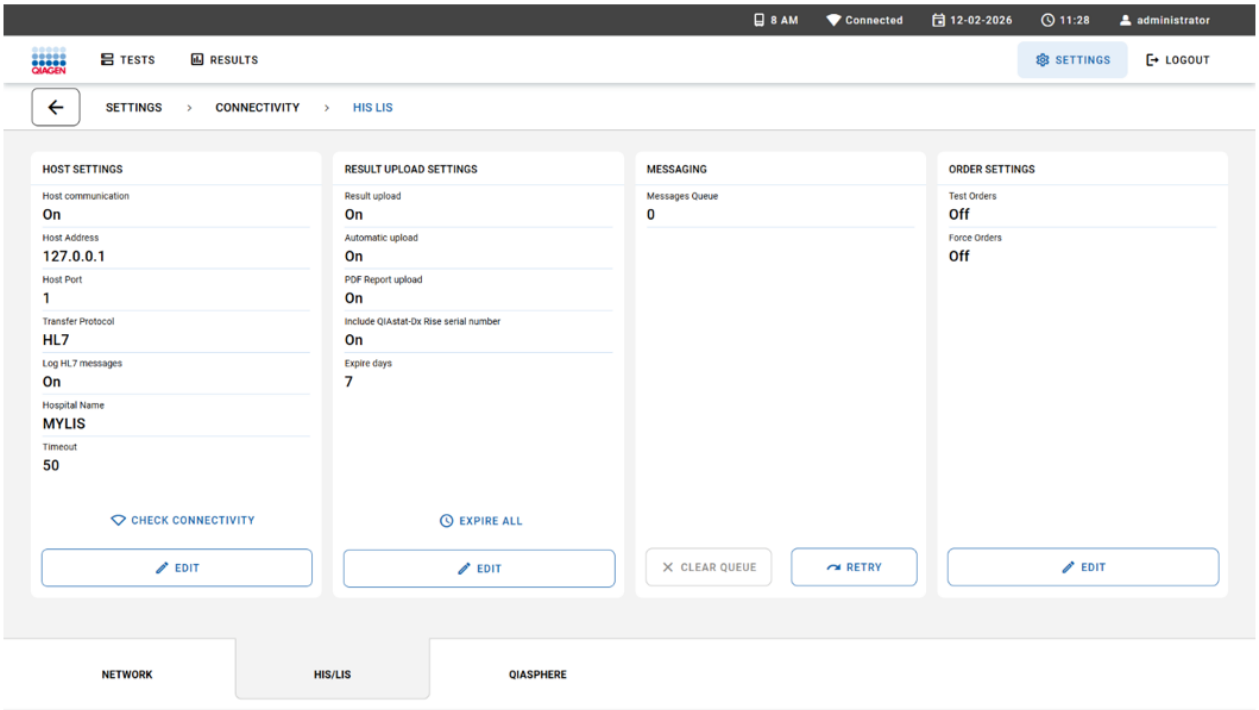


Figure 89. HIS/LIS settings.

7.2. LIS assay name configuration

The assay name in the HIS/LIS may differ from the displayed assay name in the QIAstat-Dx Rise Software. Before using HIS/LIS functions, the following process for confirming/correcting assay names must be performed.

1. Press **SETTINGS** in the main navigation bar.
2. Select the **Assay Management** menu.
3. Select the assay from the **Available Assays** menu. Press **Edit** next to the LIS name in the General Info area (Figure 66 in Section 6.3.1 Assay management).
4. By default, the LIS name is the same as the assay name. Update the LIS name to the value used as "Universal Service Identifier" in your LIS system and then press **Apply** (Figure 90).

   Note: By default, the LIS name is the same as the assay name.

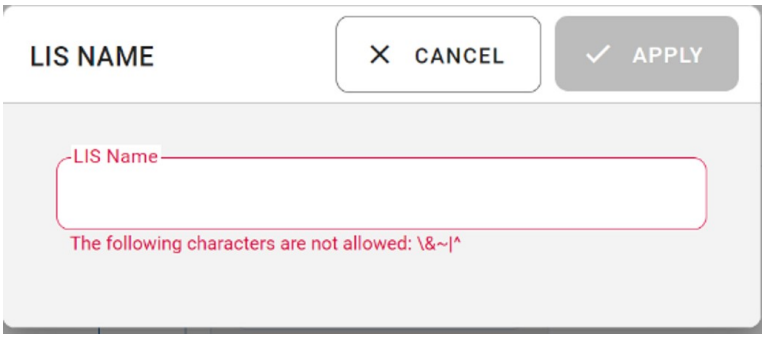


Figure 90. Update LIS Name dialog box.

7.3. Querying test orders from HIS/LIS

The QIAstat-Dx Rise can query test orders from a Laboratory Information System (LIS). When **Host Communication** and **Test Orders** are enabled, test orders can be downloaded from the host before a test run.

1. Press **SETTINGS** in the main navigation bar.
2. Select the **Connectivity** menu.
3. Select **HIS/LIS** in the submenu.

Configure the **HIS/LIS HOST SETTINGS** as described in Section 7.1 Activating and configuring communication with the HIS/LIS. Press **Edit** in the **ORDER SETTINGS** area (Figure 89) and define the settings listed in Table 16 as needed.

Table 16. HIS/LIS order settings

Setting	Description
Test Orders	Enables the functionality of running a test based on a book order created in the HIS/LIS This option is disabled by default.
Force Orders	Only active if **Test Orders** is enabled Disabling this setting enables running a test even if communication with the host is unavailable or if there is no book order associated with the entered sample ID. This setting is disabled by default.

7.4. Uploading a test result to the HIS/LIS

When **Result Upload** and **Results Upload Settings** are enabled, test results can be uploaded to the host either automatically or manually.

7.4.1. Configuration of QIAstat-Dx Rise for uploading test results (automatic)

1. Press **SETTINGS** in the main navigation bar.
2. Select the **Connectivity** menu.
3. Select **HIS/LIS** in the submenu.

Configure the HIS/LIS **HOST SETTINGS** as described in Section 7.1 Activating and configuring communication with the HIS/LIS. Click **Edit** in the **RESULT UPLOAD SETTINGS** area and define the settings listed in Table 17 as needed.

Table 17. HIS/LIS result upload settings

Setting	Description
Result Upload	This enables the option to upload a test result manually after the test is completed.
Automatic Upload	If enabled, the result will be automatically uploaded after the test is completed. **Note**: The result is also automatically uploaded even if the result upload setting above is turned off. If disabled, the user can upload the test result manually to the HIS/LIS.
PDF Report Upload	If enabled, the result upload additionally contains the test report.
Include QIAstat-Dx Rise serial number	If enabled, QIAstat-Dx Rise MC serial number is added to the AM serial number as a device serial number in HL7 (OBX-18 segment) result message <QIAstat-Dx Rise serial>~<AM serial> If disabled, only AM serial number is present in the HL7 (OBX-18 segment) result message.
Expiry Days	Defines the number of days after which a test result expires and can no longer be uploaded. Set Expire Days to 0 to never expire the test results.

The QIAstat-Dx Rise displays the number of test results that are currently queued to be uploaded in **MESSAGING** Messages Queue (Figure 89).

7.4.2. Viewing the HIS/LIS upload status of a test result

To see the upload status of one or multiple test results, perform the following steps:

1. Press **RESULTS** in the main navigation bar.

   In the result overview, the upload status is displayed in the LIS column (Figure 91).

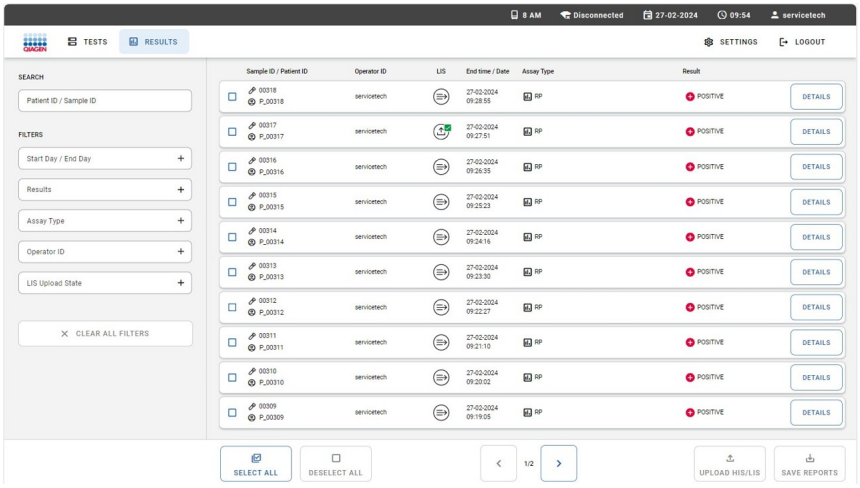


Figure 91. HIS/LIS Upload Status in the result overview.

2. To filter for a specific upload status, select the desired upload status in the LIS Upload State filter in the left menu). Table 18 shows the different upload states a test result may have.

Table 18. LIS upload state

Name	Icon	Description
Pending		Result not uploaded yet.
Uploading		Result being uploaded.
Uploaded (timestamp)		Result successfully uploaded, with date and time of upload.
Error		Error uploading result (timeout, …).
Re-Uploading		Result being sent again.
Expired (previously uploaded)		Result cannot be uploaded anymore. It was sent successfully at least once.
Expired (never uploaded)		Result cannot be uploaded anymore. It was never sent.
Disabled		The upload of the result is disabled because the result is not final. The result can neither be uploaded automatically nor manually. This is only applicable for the test status "Canceled".

To see the detailed upload status of a single test result, perform the following steps:

1. Press **RESULTS** in the main navigation bar.
2. In the result overview, press **DETAILS** in the last column of the applicable test to open the test result.

   The Upload Status is displayed in the upper part of the screen and in the **TEST DETAILS** section. The **TEST DETAILS** also contain additional information such as the upload date and potential errors that occurred during upload (Figure 92).

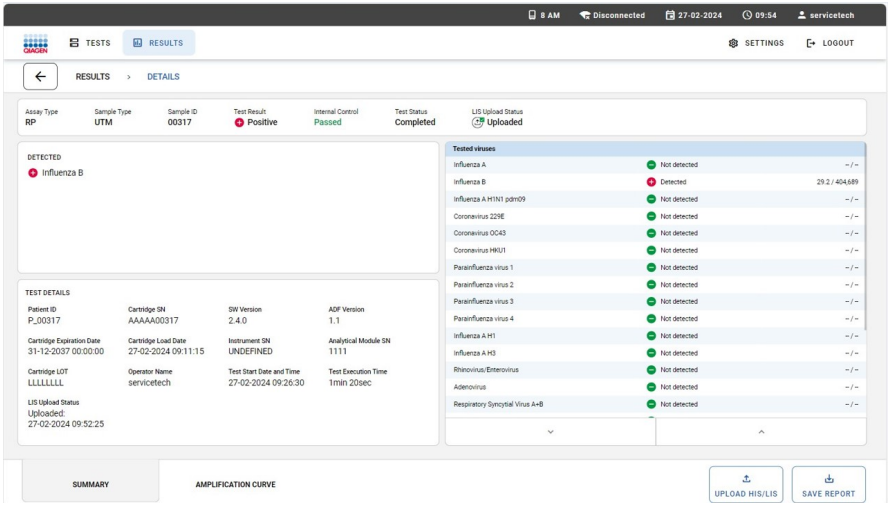


Figure 92. HIS/LIS Upload Status when viewing a test result.

7.4.3. Uploading a test result manually to HIS/LIS

To upload one or multiple test results manually to HIS/LIS, perform the following steps:

1. Press **RESULTS** in the main navigation bar.
2. In the result overview, check the box in the first column to select one or more multiple test results (Figure 93).
3. Press **UPLOAD HIS/LIS** in the submenu bar.

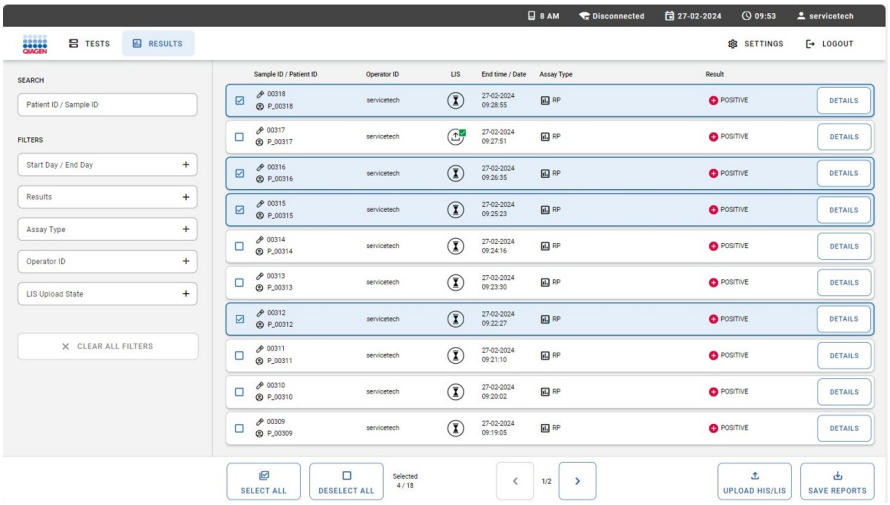


Figure 93. Selecting multiple test results for manual upload to HIS/LIS.

To upload a single test result manually to HIS/LIS, perform the following steps:

1. Press **RESULTS** in the main navigation bar.
2. In the result overview, press **DETAILS** in the last column of the applicable test to open the test result.
3. To upload the result, press **UPLOAD HIS/LIS** in the submenu bar (Figure 94).

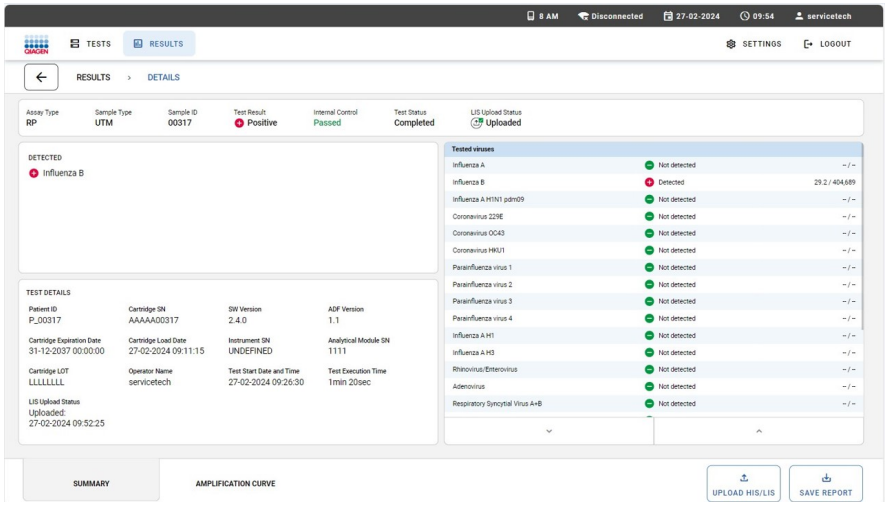


Figure 94. Manually upload a test result to HIS/LIS.

7.5. Troubleshooting host connectivity

To troubleshoot host connectivity issues, see Section 9 Troubleshooting.

8. Maintenance

This section describes the maintenance tasks required for the QIAstat-Dx Rise.

8.1. Maintenance tasks

Table 19 provides a list of maintenance tasks to be performed on the QIAstat-Dx Rise.

Table 19. Descriptions of maintenance tasks

Task	Frequency
Cleaning or decontaminating the QIAstat-Dx Rise surface	To be performed when liquids, chemicals, or biological specimens (potentially infectious) are spilled on the QIAstat-Dx Rise surface.
Cleaning or decontaminating the QIAstat-Dx Rise and Input tray	To be performed when liquids, chemicals, or biological specimens (potentially infectious) are spilled on the QIAstat-Dx Rise surface.
Exchange of air filter of the QIAstat-Dx Rise and the Analytical Modules	To be performed annually by QIAGEN Technical Service.

8.2. Cleaning the QIAstat-Dx Rise surface (including the Analytical Modules)

WARNING/ CAUTION



Risk of personal injury and material damage

Wear protective glasses, a lab coat, and gloves when cleaning the instrument to avoid biological and chemical hazards.

WARNING/ CAUTION



Risk of personal injury and material damage

Disconnect the QIAstat-Dx Rise from the power outlet before cleaning.

CAUTION



Damage to the instrument

Avoid spilling water or chemicals onto the QIAstat-Dx Rise. Instrument damage caused by water or chemical spillage will void your warranty.

CAUTION



Risk of personal injury and material damage

Avoid spilling liquids on or wetting the touchscreen. To clean the touchscreen, use the screen suede provided with the QIAstat-Dx Rise.

Use the following materials to clean the QIAstat-Dx Rise outside surface:

- Mild detergent
- Paper towels
- Distilled water

Note: Do not use alcohol-based liquids or bleach, as it may damage the door and the touchscreen.

Follow these steps to clean the QIAstat-Dx Rise and Analytical Module outer surface:

1. Wear laboratory gloves, coat, and protective glasses.
2. Wet a paper towel in mild detergent and wipe down the QIAstat-Dx Rise surface. Take care not to wet the touchscreen. To clean the touchscreen, use the screen suede provided with the QIAstat-Dx Rise.
3. Repeat step 2 three times with fresh paper towels.
4. Wet a paper tower in distilled water and wipe the surface of the QIAstat-Dx Rise to rinse away remaining detergent. Repeat two times.
5. Dry the QIAstat-Dx Rise surface with a fresh paper towel.

8.3. Decontaminating the QIAstat-Dx Rise sample and waste trays

WARNING/ CAUTION



Risk of personal injury and material damage

Wear protective glasses, a lab coat, and gloves when cleaning the instrument to avoid biological and chemical hazards.

Bleach is irritating to eyes and skin and may release dangerous gases (chlorine). Wear adequate personal protection equipment.

WARNING/ CAUTION



Risk of personal injury and material damage

Disconnect the QIAstat-Dx Rise from the power outlet before cleaning.

CAUTION



Damage to the instrument

Avoid spilling water or chemicals onto the QIAstat-Dx Rise. Instrument damage caused by water or chemical spillage will void your warranty.

CAUTION



Risk of personal injury and material damage

Avoid spilling liquids on or wetting the touchscreen. To clean the touchscreen, use the screen suede provided with the QIAstat-Dx Rise.

Use the following material to decontaminate the QIAstat-Dx Rise trays:

- Meliseptol Wipes

Follow these steps to decontaminate the QIAstat-Dx Rise trays:

1. Wear laboratory gloves, coat, and protective glasses.
2. Remove the trays from the instrument, avoiding spillage of liquids in your surroundings.
3. Make sure you keep track of which tray is the input tray and which tray is the waste tray. Place the trays on a flat surface with appropriate measure to collect contaminated liquids. Make sure to remove nearby equipment.
4. Wipe down the tray surface, as well as the surrounding workbench area with Meliseptol Wipes.
5. Place the trays back into their original position. The waste and input tray must not be interchanged. Ensure that the system is only operated with both the input and the waste tray inserted into their respective drawer positions.

Important: Make sure to follow your local and laboratory guidelines for decontamination of the waste.

8.4. QIAstat-Dx Rise repair

The QIAstat-Dx Rise must only be repaired by representatives authorized by QIAGEN. If the QIAstat-Dx Rise is not working as expected, contact QIAGEN Technical Service using the contact information in Section 1.2.1 Technical assistance.

WARNING/ CAUTION



Risk of personal injury and material damage

Do not open the cover or service flaps of the QIAstat-Dx Rise.

Do not open the side door of the QIAstat-Dx Rise unless prompted by the system for troubleshooting purposes. Do not attempt to repair or modify the QIAstat-Dx Rise.

Attempting to repair or modify the QIAstat-Dx Rise may result in user injury and QIAstat-Dx Rise damage and will void the warranty.

9. Troubleshooting

This section provides information about what to do if an error occurs when using the QIAstat-Dx Rise system.

If further assistance is required, contact QIAGEN Technical Service using the contact information below:

Website: **support.qiagen.com**

When contacting QIAGEN Technical Service about an error with the QIAstat-Dx Rise, note the steps leading up to the error and any information appearing in any dialog boxes. This information will help QIAGEN Technical Service solve the problem.

When contacting QIAGEN Technical Service about errors, please have the following information ready:

- QIAstat-Dx Rise serial number, type, and version
- Software version
- Timepoint when the error occurred for the first time
- Frequency of error occurrence (i.e., intermittent or persistent error)
- Detailed description of the error situation
- Photo of the error, if possible
- Support package

This information will help you and your QIAGEN Technical Service Specialist to deal most efficiently with your issue.

Note: Information about the latest software and protocol versions can be found at **www.qiagen.com**. In some cases, updates may be available for addressing specific problems.

9.1. Remote support

The QIAstat-Dx Rise instrument comes with the capability to provide support for software related issues remotely. This includes troubleshooting procedures as well as certain service procedures such as the installation of assays.

Note: Only users with administrator permission can enable remote support.

1. To enable the remote support, press **SETTINGS** in the main navigation bar.
2. Select the **CONNECTIVITY** menu.
3. Press **EDIT** in the **REMOTE SUPPORT** panel (Figure 95).

   If a message is displayed stating that "`Remote support is not possible on this instrument. Please contact QIAGEN service`", the feature is not available.

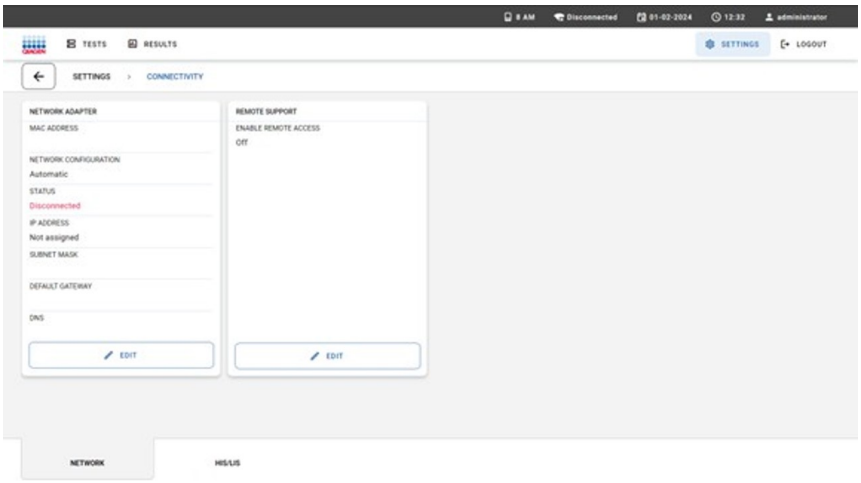


Figure 95. Connectivity settings with remote support setting.

4. Enable **Enable Remote Access** (Figure 96).

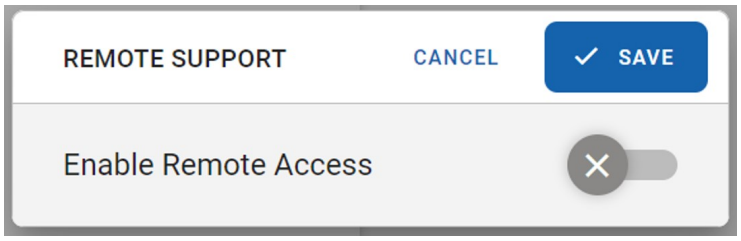


Figure 96. Enable remote access.

5. Press **SAVE**.

When **REMOTE SUPPORT** is enabled, the status “Connected” appears in the status bar (Figure 97).



Figure 97. Remote support enabled.

A QIAGEN service technician can now remotely connect to the instrument to deliver the desired support or troubleshooting. Service technicians can access the operating system of the instrument to view logs, backup data, or install new assays. They are not able to see content of the instrument’s screen.

After an instrument reboot, the remote support feature is automatically disabled. To continue with remote support, enable the feature again as described above.

Note: The status "Connected" means that it is possible for a QIAGEN service technician to connect to the instrument. It does not necessarily mean that there is an active connection.

9.2. Hardware and software errors

9.2.1. Initialization error

During the initialization, the system checks if there are cartridges in the input/waste drawers, scan station, and analytical modules (AMs). In case that cartridges are detected during the initialization, the software will guide the user through the

process to restore the instrument into a safe state (Figure 98).

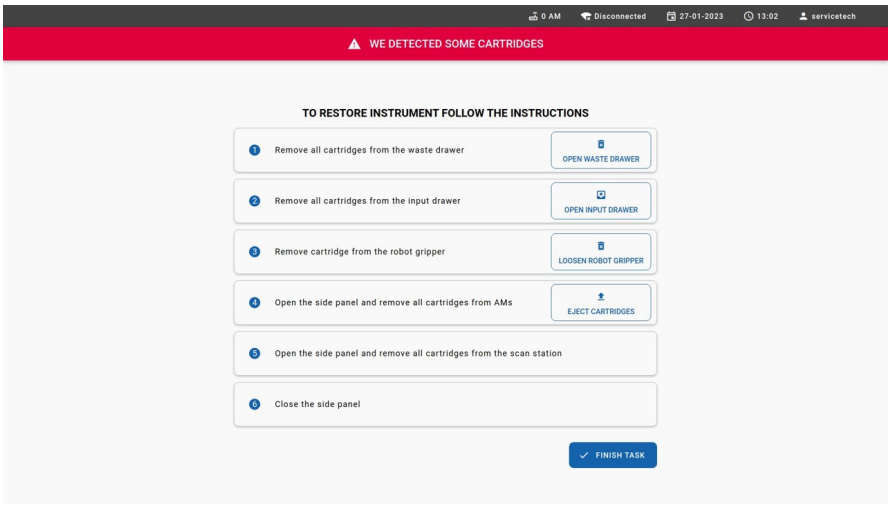


Figure 98. Cartridge recovery screen.

1. Press **OPEN WASTE DRAWER** to remove all cartridges from the waste drawer. Then, pull out the waste drawer, remove all cartridges, and close the drawer again.
2. Press **OPEN INPUT DRAWER** to remove all cartridges from the input drawer. Then, pull out the input drawer, remove all cartridges, and close the drawer again.
3. Press **LOOSEN ROBOT GRIPPER** to remove cartridge from the robot gripper.
4. Press **EJECT CARTRIDGES** to eject cartridges from AMs which still have a cartridge inside.
5. Open the side door using the door key that was provided with the instrument.
    a. Remove the ejected cartridges.
    b. Remove the cartridge from the scan station.
    c. Remove the cartridge from the robot gripper.
6. Close and lock the side door with the door key.
7. Shut down the instrument and start it up again.

If there are still cartridges detected in the instrument, the process needs to be repeated.

Note: In the recovery screen, if an AM with a cartridge does not eject the cartridge when **EJECT CARTRIDGES** is pressed, wait for 60 seconds, then press the button again. You can try pressing **EJECT CARTRIDGES** more than once if necessary. If the cartridge is still not ejected, restart the instrument.

If an AM that has a cartridge inside was automatically excluded by the system, go to **SETTINGS** > **SYSTEM**. Use the toggle button to enable the AM to eject the cartridge.

9.2.2. PLC errors

The Programmable Logic Controller (PLC) is a computer inside the QIAstat-Dx Rise instrument that controls the hardware, in particular the robotic arm movements. Errors on the PLC may result in hardware damage when the robotic arm moves to a

faulty position. To prevent hardware damage, the system stops when a PLC error occurs. In this event, the instrument shows a "PLC ERROR OCCURRED" message (Figure 99) and blocks the system.

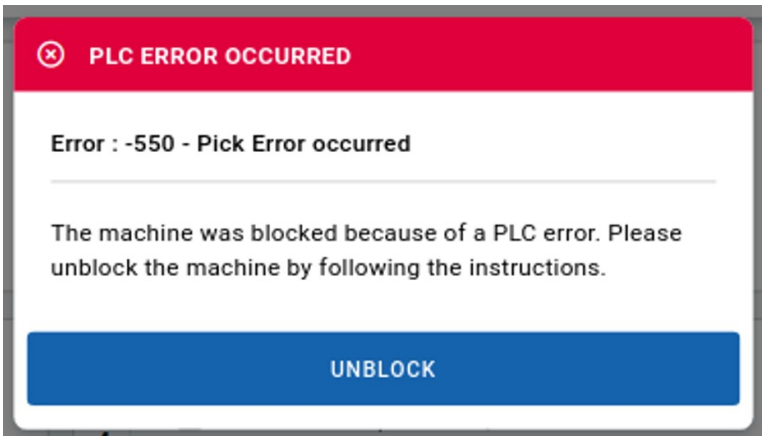


Figure 99. PLC error occurred.

To unblock the system, press **UNBLOCK**.

Follow the instructions displayed on the screen to remove cartridges from the instrument (Figure 100).

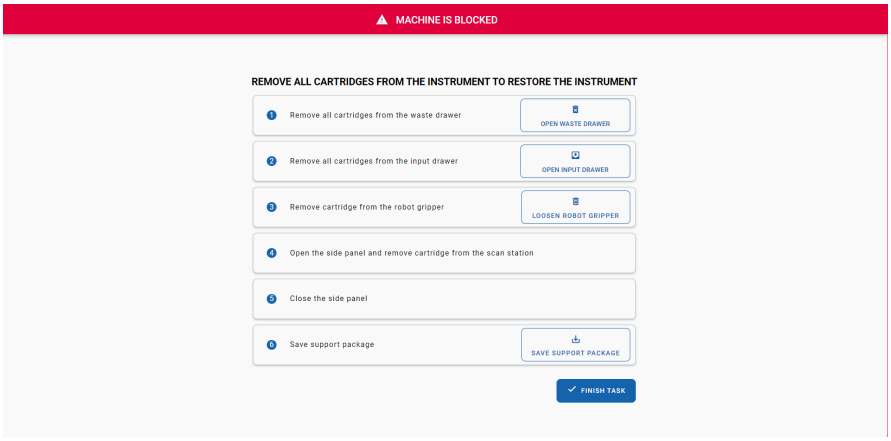


Figure 100. Manual recovery screen.

1. Press **OPEN WASTE DRAWER** to remove all cartridges from the waste drawer. Then, pull out the waste drawer, remove all cartridges, and close the drawer again.
2. Press **OPEN INPUT DRAWER** to remove all cartridges from the input drawer. Then, pull out the input drawer, remove all cartridges, and close the drawer again.
3. Press **LOOSEN ROBOT GRIPPER** to remove cartridge from the robot gripper.
4. Open the side door using the door key that was provided with the instrument.
    a. Remove the cartridge from the scan station.
    b. Remove the cartridge from the robot gripper.
5. Close and lock the side door with the door key.

Press **SAVE SUPPORT PACKAGE** to save the support package to a USB stick or connected network share. Support package is required to be provided to QIAGEN Technical Service to investigate the root cause of the PLC error.

Note: You do not have to wait until the support package generation process to be completed to continue operating the instrument.

6. Press **FINISH TASK**.
7. Ensure that all cartridges except those running in the AMs are removed from the system (Figure 101).

   To prevent system damage after confirming that recovery instructions are followed in the System Re-initialization dialog box, the system automatically checks that there are no remaining cartridge in the robot gripper. During the execution of this task, the **FINISH TASK** button is disabled and an in-progress state is displayed within the button.

   - If the test does not detect a cartridge within the robot gripper, the re-initialization starts.
   - If a cartridge is detected during the check, the re-initialization is not started and an error message appears on the Maintenance window (Figure 102).
   - If the check cannot be executed normally due to an internal error, the check is treated as invalid (Figure 103).

   Note: There is a high risk to damage the instrument if there are still cartridges somewhere in the instrument which have not been removed.

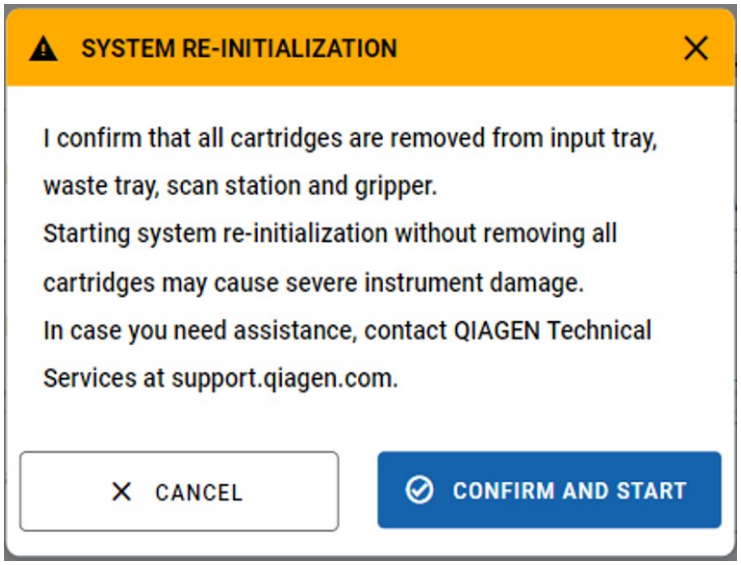


Figure 101. Manual recovery confirmation screen.

Note: No test results are generated for cartridges that are taken out of the instrument during this process. Cartridges can be reloaded again for testing within the onboard stability time.

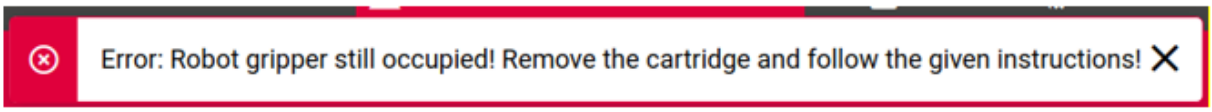


Figure 102. Error message when a cartridge is detected during check.

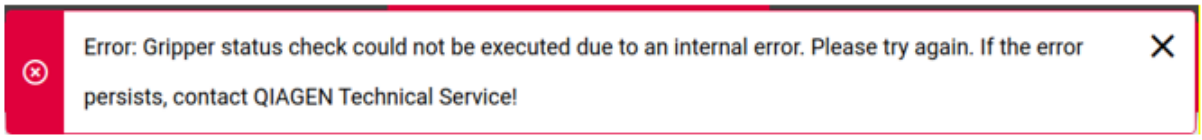


Figure 103. Error message due to an internal error.

9.2.3. System freeze

If you encounter a system freeze, the QIAstat-Dx Rise instrument will stop all mechanical movements, (e.g., the robotic arm will not transport cartridges anymore). However, if there are running samples, the analytical modules are still active and will continue to process. **Do not power off the instrument (do not press On/Off button on the front or the power switch on the side of the instrument)**.

In case of system freeze, follow these instructions:.

1. If samples are running in the analytical modules, wait until all runs are completed.
2. Shut down the instrument (by pressing the power switch on the side the instrument) and wait for at least 1 minute.
3. Power on the instrument (by pressing the power switch on the side of the instrument).
4. Press the **On/Off** button on the front of the instrument.
5. After restart and login during initialization, there will be a recovery procedure that can be tracked on the GUI (refer to Section 9.2.1 Initialization error).
6. The unprocessed cartridges can be reintroduced to the instrument following the usual loading procedure. The instrument will reject samples that have exceeded the maximum stability time/onboard time. Please refer to the assay instructions for use for the details.

9.2.4. Analytical Module (AM) errors

In case of an AM error, the status LED of the AM will turn red and an error message is displayed in the GUI.

If such an error occurs, restarting the AM may solve the problem. To do this, go to **SETTINGS** > **SYSTEM**. Then, select the AM that is in the error state and use the AM restart button to restart the AM.

If the restart works, the AM will become active again and if there is a cartridge in it, the cartridge will be ejected and wasted. If the cartridge is canceled (due to the AM error), it can be reloaded into the instrument if the onboard stability time is not exceeded.

If the AM error persists, disable the AM and please contact QIAGEN Technical Service for support.

9.3. Error and warning messages

Error Category: MC hardware

Error Code	Message
0x00100000	Generic MC HW Error.
0x00100001	Please ensure that all doors/panels and drawers are closed. Then reinitialize the instrument by pressing the reinitialize button below. If the issue persists, please call Technical Support.
0x00100002	The robotic arm and/or the scan station could not be initialized and cannot be used. Please call Technical Support.
0x00100003	The instrument did not become initialized within max time range. Please call Technical Support.
0x00100004	The instrument does not support AMs configuration: Supported configurations: minimum 2 AMs (must be in slot 3 and 4) or more than 3. Once the Analytical Modules are properly configured, restart the instrument. Please call Technical Support.
0x00100005	Initialization error: cartridge discovered in both Robotic Arm gripper and Scan Station. Cartridge from the Scan Station needs to be removed. Please call Technical Support.
0x00100006	Startup error: Backend connection failed or user data error detected.
0x00100007	Analytical Module disabled due to incompatibility detected with firmware versions. Please call Technical Support.

Error Category: MC file system

Error Code	Message
0x00110000	Generic OS Error
0x00110001	Can't copy data to USB drive. Check if enough space is available and USB drive is not in read-only mode.
0x00110002	No valid USB drive found. Insert a valid USB drive into one of the instruments USB ports to proceed.
0x00110003	An error occurred during report directory creation. Check if USB drive is not in read-only mode and enough space is available.
0x00110004	Can’t save data to USB drive, since USB drive not available anymore. Check if USB drive is connected properly and try again.
0x00110005	Can't copy data to network share. Check network share connection, ensure that network share is not in read-only mode and that enough space is available.
0x00110006	Can't read file from USB drive. Check USB drive connection and ensure that read permissions are set.
0x00110007	Can't read file from network share. Check network share connection and ensure that the specified user has read permissions.

Error Category: Assay management

Error Code	Message
0x00120000	(Reserved for future Generic Error in Assay Management)
0x00120002	No assay definition file found on this drive! Please ensure the .asy file is correctly copied or select a different drive.
0x00120003	No assay in required ADF version.
0x00120004	The assay file could not be parsed. Please retry. If the issue persists, contact QIAGEN service.
0x00120005	The assay file could not be decrypted. Please retry. If the issue persists, contact QIAGEN service.

Error Category: Results and PDF report

Error Code	Message
0x00121000	An unexpected error occurred during report creation. Please call Technical Support.

Error Code	Message
0x00121001	Result details not found.
0x00121002	Could not generate a report. Please call Technical Support.
0x00121003	Result not found during report generation.

Error Category: Assay execution

Error Code	Message
0x00122000	(Reserved for future Generic Assay Execution & Result Processing Error)
0x00122001	The Analytical Module reported that the cartridge is the wrong type.
0x00122002	The Analytical Module reported an AAF CRC error.
0x00122003	The Analytical Module reported an AAF parsing error.
0x00122004	The Analytical Module reported a calibration data length error.
0x00122005	The Analytical Module reported a calibration data CRC error.
0x00122006	The Analytical Module reported that the AAF was too long.
0x00122007	Test run failed: encountered an issue during procedure.
0x00122008	Could not extract cartridge from AM due to an unspecified error.
0x00122009	Analytical Module is not ready for cartridge extraction.
0x0012200A	Analytical Module: Cartridge is already used.
0x0012200B	Analytical Module: Status update timeout exceeded after manual recovery.
0x0012200C	The Analytical Module reported a barcode scan error.
0x0012200D	The Analytical Module reported a test fault error.
0x0012200E	The Analytical Module reported a lid opening error during cartridge insertion. Please call Technical Support.
0x0012200F	The Analytical Module reported a lid closing error during cartridge insertion. Please call Technical Support.
0x00122010	The Analytical Module reported a lid opening error during cartridge extraction. Please call Technical Support.
0x00122011	The Analytical Module reported a lid closing error during cartridge extraction. Please call Technical Support.
0x00122012	The Analytical Module reported a fault error. Please restart the AM. If the error reappears, please call Technical Support.
0x00122013	Test Run could not be started. A recoverable error occurred in Analytical Module.
0x00122014	The Analytical Module reported a homing error. Please restart the AM. If the error reappears, please call Technical Support.
0x00122015	The Analytical Module reported a FW CRC error. Please restart the AM. If the error reappears, please call Technical Support.
0x00122016	The Analytical Module reported a FW Flashing error. Please restart the AM. If the error reappears, please call Technical Support.
0x00122017	The Analytical Module <AmId> could not be enabled. Please call Technical Support.
0x00122018	The Analytical Module <AmId> could not be disabled. Please call Technical Support.
0x0012201A	The module has been disabled due to a cartridge detection sensor fault. The cartridge remains inside. To prevent incorrect operation, the module cannot be activated until the issue is addressed. Please contact Technical Support.
0x0012201B	The module has been disabled due to a cartridge detection sensor fault. To prevent incorrect operation, the module cannot be activated until the issue is addressed. Please contact Technical Support.

Error Category: Cartridge preprocessing and validation

Error Code	Message
0x00123100	(Reserved for future Generic cartridge preprocessing error)
0x00123101	Another cartridge with the given barcode is already in the input drawer.
0x00123102	The cartridge is expired.
0x00123103	Stability time has been exceeded.
0x00123104	There is no assay for given cartridge ID.
0x00123105	The cartridge was already used.
0x00123106	The cartridge's barcode is not valid.
0x00123107	The sample ID is empty.
0x00123108	The sample ID barcode is not valid.

Error Category: Input drawer

Error Code	Message
0x00123200	Input drawer: Unspecified error.
0x00123201	Input drawer error: couldn't read sample id. Remove cartridge <cartridge ID> from the waste drawer and ensure that the sample ID barcode is readable. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123202	Input drawer error: invalid sample id. Remove cartridge <cartridge ID> from the waste drawer and ensure that the sample ID is valid. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123203	Input drawer error: no available assay for cartridge. Remove cartridge <cartridge ID> from the waste drawer and contact QIAGEN service to import the assay.
0x00123204	Input drawer error: cartridge <cartridge ID> is expired. Cartridge is wasted and cannot be reloaded.
0x00123205	Input drawer error: onboard stability time has been exceeded. Cartridge <cartridge ID> is wasted and cannot be reloaded.
0x00123206	Input drawer error: Cartridge <cartridge ID> is already used. A test result for this cartridge should already be available. Cartridge is wasted and cannot be reloaded.
0x00123207	Input drawer error: The cartridge assay does not match with the LIS order. Remove cartridge <cartridge ID> from the waste drawer and ensure that the LIS order matches the cartridge or that the correct cartridge is prepared.
0x00123208	Input drawer error: no LIS order found. Remove cartridge <cartridge ID> from the waste drawer and create a LIS order or disable Force Order. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123209	Input drawer error: Sample type in LIS order does not match the manually entered Sample type. Remove cartridge <cartridge ID> from the waste drawer and correct test data. Then reload cartridge before stability time <timestamp> is exceeded.
0x0012320A	Input drawer error: Patient ID is mandatory but missing in the LIS order. Remove cartridge <cartridge ID> from the waste drawer and ensure that a patient ID is provided in the LIS order. Then reload cartridge before stability time <timestamp> is exceeded.
0x0012320B	Input drawer error: Patient ID in LIS order does not match the manually entered patient ID. Remove cartridge <cartridge ID> from the waste drawer and ensure that the patient ID in the LIS order matches with the test data. Then reload cartridge before stability time <timestamp> is exceeded.

Error Code	Message
0x0012320C	Input drawer error: No matching assay found in LIS order. Remove Cartridge <cartridge ID> from the waste drawer and create a LIS order with an installed assay, have the assay installed or disable Force Order. Then reload cartridge before stability time <timestamp> is exceeded.
0x0012320D	Input drawer error: No matching sample found in LIS order. Remove Cartridge <cartridge ID> from the waste drawer and create a LIS order with a valid sample or disable Force Order. Then reload cartridge before stability time <timestamp> is exceeded.
0x0012320E	Input drawer error: Timeout while scanning the input tray. Remove all cartridges and contact QIAGEN service

Error Category: Scan station

Error Code	Message
0x00123300	Scan station: Unspecified error.
0x00123301	Scan station error: cartridge was not fully scanned. Remove cartridge <cartridge ID> from the waste drawer and ensure that barcodes are readable. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123302	Scan station error: sample ID is not readable. Remove cartridge <cartridge ID> from the waste drawer and ensure that the sample ID barcode is readable. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123303	
0x00123304	Scan station: unknown sample ID. Remove cartridge <cartridge ID> from the waste drawer. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123305	Scan station: unknown cartridge ID. Remove cartridge from the waste drawer. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123306	Scan station error: cartridge's barcode is not readable or invalid. Remove cartridge <cartridge ID> from the waste drawer and ensure that the cartridge barcode is readable. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123307	Scan station error: cartridge is expired. Cartridge is wasted and cannot be reloaded.
0x00123308	Scan station error: cartridge has already been executed. A test result for this cartridge should already be available. Cartridge is wasted and cannot be reloaded.
0x00123309	Scan station error: detected sample type is incompatible with the used assay. Cartridge is wasted and cannot be reloaded.
0x0012330A	Scan station error: onboard stability time has been exceeded. Cartridge is wasted and cannot be reloaded.
0x0012330B	Scan station error: invalid data after scan detected. Remove cartridge Cartridge <cartridge ID> from the waste drawer and correct the data. Then reload cartridge before stability time <timestamp> is exceeded.
0x0012330C	Scan station error: no available assay for given cartridge. Remove Cartridge <cartridge ID> from the waste drawer and contact QIAGEN service to import the assay. Then reload cartridge before stability time <timestamp> is exceeded.
0x0012330D	Scan station error: no assay in required ADF version. Remove cartridge <cartridge ID> from the waste drawer and contact QIAGEN service to import the assay. Then reload cartridge before stability time <timestamp> is exceeded.
0x0012330E	Scan station error: The cartridge assay does not match with the LIS order. Remove cartridge <cartridge ID> from the waste drawer and ensure that the LIS order matches the cartridge or that the correct cartridge is prepared.
0x0012330F	Scan station error: Two samples detected inside the cartridge. cartridge is wasted and cannot be reloaded.

Error Code	Message
0x00123310	Scan station error: No sample detected. Remove cartridge <cartridge ID> from the waste drawer and insert a sample. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123311	Scan Station error: Sample type in order does not match the detected Sample type. Remove cartridge <cartridge serial number> from the waste drawer and ensure that the order matches the cartridge or that the correct cartridge is prepared. Then reload cartridge before stability time <timestamp> is exceeded.
0x00123312	Scan Station error: No sample type selected. Remove cartridge <cartridge serial number> from the waste drawer and manually scan the test data. Then reload cartridge before stability time <timestamp> is exceeded.

Error Category: Waste drawer

Error Code	Message
0x00123400	Waste drawer error: Unspecified error.
0x00123401	Waste drawer error: There are no available slots in the waste drawer to dispose of a cartridge from Analytical Module.
0x00123402	Waste drawer: only {0} slots left.
0x00123403	Remove cartridges from the waste drawer.
0x00123404	System blocked. Remove cartridges from the waste drawer.

Error Category: Miscellaneous scheduling, pre- and postprocessing

Error Code	Message
0x00123F0A	Unknown test run found in the scan station/gripper.
0x00123F17	Could not insert cartridge to AM due to an unspecified error.
0x00123F18	Test run preparation in AM failed.
0x00123F23	The temperature inside the instrument has been exceeded. Cartridge is wasted and cannot be reloaded.
0x00123F24	Aborted after improper shutdown. Cartridge is wasted and cannot be reloaded.
0x00123F25	The test run execution was manually aborted by the operator {0}. Cartridge is wasted and cannot be reloaded.
0x00123F26	Test Run cannot be aborted. Please try again later.
0x00123F27	The test run execution was manually canceled by the operator <operator> Cartridge <cartridge ID> can be removed from the waste drawer and reloaded before stability time <timestamp> is exceeded.
0x0012800C	Analytical Module disabled due to incompatibility detected with firmware versions.

Error Category: Internal communication

Error Code	Message
0x00124000	Generic internal communication error.
0x00124001	MC not reachable. Please call Technical Support.
0x00124002	Connection error: PLC is not reachable from Master Controller. Please call Technical Support.
0x00124003	PLC firmware version is not compatible with MC Rise application. Please call Technical Support
0x00124004	Scheduled command to PLC has not been processed within max time range. Please call Technical Support.

Error Code	Message
0x00124005	Scheduled command to PLC has not been accepted.
0x00124006	Scheduled command to PLC returned an error.
0x00124007	Database error! Invalid checksum. Please try to generate a support package and contact Technical Support.

Error Category: User management

Error Code	Message
0x00125000	Generic user management error.
0x00125001	The Operator ID or password is incorrect.
0x00125002	The user CRC check for some of the users failed.
0x00125003	Your account has been locked after exceeding the maximum of 5 failed login attempts. Please reach out to an administrator or technical support to reset your password.

Error Category: HIS/LIS

Error Code	Message
0x00126000	Generic HIS/LIS error.
0x00126001	Number of selected Results <number-of-selected-results> exceeds maximum queue size. No results added to upload queue! Please deselect some results.
0x00001001	No connection to HIS/LIS.
0x00001002	No connection to HIS/LIS.
0x00001003	No connection to HIS/LIS.
0x00001010	Upload queue full.
0x00001011	Upload queue cleared.
0x00001020	Message type mismatch.
0x00001021	Processing ID mismatch.
0x00001022	Protocol version mismatch.
0x00001023	Message control id mismatch.
0x00001024	Parse error.
0x00001030	Wrong query tag.
0x00001031	Order not found.
0x00001032	Order not found.
0x00001033	Sample ID mismatch.
0x00001034	Ordered assay not installed.
0x00001035	Unknown sample type.
0x00001036	Assay not in order list.
0x00001037	Sample type mismatch.
0x00001064	Message segments not in proper order.
0x00001065	The required field is missing.
0x00001066	Wrong data type.

Error Code	Message
0x00001067	Field data identifier mismatch
0x00001068	HIS/LIS internal error.
0x000010C8	Unsupported message type.
0x000010C9	Unsupported event code.
0x000010CA	Unsupported processing ID.
0x000010CB	Unsupported version ID.
0x000010CC	ID not found.
0x000010CD	Order already in process.
0x000010CE	Server not available.
0x000010CF	HIS/LIS internal error.

Error Category: Support package

Error Code	Message
0x00128000	An unexpected error occurred during support package creation. Please call Technical Support.
0x00128003	Could not write results to file for support package. Please call Technical Support.

Error Category: AAF errors

Error Code	Message
0x0Y00019C	Cartridge execution failure : Please retry another cartridge
0x0Y00019D	Cartridge execution failure : Please retry another cartridge and if sample type is Swab follow the IFU for proper swab use and insertion
0x0Y0001B8	Cartridge execution failure : Please retry another cartridge
0x0Y0001F6	Cartridge execution failure : Please retry another cartridge
0x0Y0001FF	Cartridge execution failure : Please retry another cartridge
0x0Y000200	Cartridge execution failure : Please retry another cartridge
0x0Y000201	Cartridge execution failure : Please retry another cartridge and if sample type is Swab follow the IFU for proper swab use and insertion
0x0Y00021C	Cartridge execution failure : Please retry another cartridge
0x0Y00025A	Cartridge execution failure : Please retry another cartridge
0x0Y000263	Cartridge execution failure : Please retry another cartridge and verify that the Swab and Bead Beater lid are properly closed
0x0Y000264	Cartridge execution failure : Please retry another cartridge
0x0Y000265	Cartridge execution failure : Please retry another cartridge
0x0Y000280	Cartridge execution failure : Please retry another cartridge
0x0Y00028A	Cartridge execution failure : Please retry another cartridge
0x0Y00028B	Cartridge execution failure : Please retry another cartridge
0x0Y00028C	Cartridge execution failure : Please retry another cartridge
0x0Y000290	Cartridge execution failure : Please retry another cartridge
0x0Y000291	Cartridge execution failure : Please retry another cartridge

Error Code	Message
0x0Y000292	Cartridge execution failure : Please retry another cartridge
0x0Y0002BE	Cartridge execution failure : Please retry another cartridge
0x0Y0002C7	Cartridge execution failure : Please retry another cartridge
0x0Y0002C8	Cartridge execution failure : Please retry another cartridge
0x0Y0002C9	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge
0x0Y000322	Cartridge execution failure : Please retry another cartridge
0x0Y00032B	Cartridge execution failure : Please retry another cartridge
0x0Y00032C	Cartridge execution failure : Please retry another cartridge
0x0Y00032D	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge
0x0Y000386	Cartridge execution failure : Please retry another cartridge
0x0Y00038F	Cartridge execution failure : Please retry another cartridge
0x0Y000390	Cartridge execution failure : Please retry another cartridge
0x0Y000391	Cartridge execution failure : Please retry another cartridge
0x0Y0003EA	Cartridge execution failure : Please retry another cartridge
0x0Y0003F3	Cartridge execution failure : Please retry another cartridge
0x0Y0003F4	Cartridge execution failure : Please retry another cartridge

Error Category: AAF errors

Error Code	Message
0x0Y00044E	Cartridge execution failure : Please retry another cartridge
0x0Y000457	Cartridge execution failure : Please retry another cartridge
0x0Y000458	Cartridge execution failure : Please retry another cartridge
0x0Y000459	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge
0x0Y00045A	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge
0x0Y0004B2	Cartridge execution failure : Please retry another cartridge
0x0Y0004BB	Cartridge execution failure : Please retry another cartridge
0x0Y0004BC	Cartridge execution failure : Please retry another cartridge
0x0Y0004BD	Cartridge execution failure : Please retry another cartridge
0x0Y0004BF	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge
0x0Y000516	Cartridge execution failure : Please retry another cartridge
0x0Y00051F	Cartridge execution failure : Please retry another cartridge
0x0Y000520	Cartridge execution failure : Please retry another cartridge
0x0Y000521	Cartridge execution failure : Please retry another cartridge
0x0Y000524	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge
0x0Y00057A	Cartridge execution failure : Please retry another cartridge
0x0Y000583	Cartridge execution failure : Please retry another cartridge
0x0Y000585	Cartridge execution failure : Please retry another cartridge
0x0Y000586	Cartridge execution failure : Please retry another cartridge
0x0Y00058A	Cartridge execution failure : Please retry another cartridge
0x0Y00058B	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge
0x0Y0005DE	Cartridge execution failure : Please retry another cartridge
0x0Y0005E9	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge
0x0Y0005EE	Cartridge execution failure : Please retry another cartridge
0x0Y000642	Cartridge execution failure : Please retry another cartridge
0x0Y00064B	Cartridge execution failure : Please retry another cartridge
0x0Y00064C	Cartridge execution failure : Please retry another cartridge
0x0Y00064D	Cartridge execution failure : Please retry another cartridge
0x0Y0006A6	Cartridge execution failure : Please retry another cartridge
0x0Y0006AF	Cartridge execution failure : Please retry another cartridge
0x0Y0006B0	Cartridge execution failure : Please retry another cartridge
0x0Y0006B1	Cartridge execution failure : Please retry another cartridge
0x0Y00076E	Cartridge execution failure : Please retry another cartridge
0x0Y000777	Cartridge execution failure : Please retry another cartridge
0x0Y000778	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge

Error Category: AAF errors

Error Code	Message
0x0Y00077D	Cartridge execution failure : Sample concentration too high. Please dilute and retry another cartridge
0x0Y0007D2	Cartridge execution failure : Please retry another cartridge
0x0Y0007DB	Cartridge execution failure : Please retry another cartridge
0x0Y0007DC	Cartridge execution failure : Please retry another cartridge
0x0Y0007E1	Cartridge execution failure : Please retry another cartridge
0x0Y0007F8	Cartridge execution failure : Please retry another cartridge
0x0Y000816	Cartridge execution failure : Please retry another cartridge
0x0Y000817	Cartridge execution failure : Please retry another cartridge
0x0Y000818	Failure during PCR preparation. Please retry another cartridge. If this error persists please contact QIAGEN Technical Services
0x0Y000819	Cartridge execution failure : Please retry another cartridge
0x0Y00081F	Cartridge execution failure : Please retry another cartridge
0x0Y000836	Cartridge execution failure : Please retry another cartridge
0x0Y00083F	Cartridge execution failure : Please retry another cartridge
0x0Y00087E	Cartridge execution failure : Please retry another cartridge
0x0Y00087F	Cartridge execution failure : Please retry another cartridge
0x0Y000880	Cartridge execution failure : Please retry another cartridge
0x0Y000881	Cartridge execution failure : Please retry another cartridge
0x0Y000882	Cartridge execution failure : Please retry another cartridge
0x0Y0008A3	Cartridge execution failure : Please retry another cartridge
0x0Y0008DE	Cartridge execution failure : Please retry another cartridge
0x0Y0008E8	Cartridge execution failure : Please retry another cartridge
0x0Y0008E9	Cartridge execution failure : Please retry another cartridge
0x0Y000819	Cartridge execution failure : Please retry another cartridge
0x0Y00081F	Cartridge execution failure : Please retry another cartridge
0x0Y000836	Cartridge execution failure : Please retry another cartridge
0x0Y00083F	Cartridge execution failure : Please retry another cartridge
0x0Y00087E	Cartridge execution failure : Please retry another cartridge
0x0Y00087F	Cartridge execution failure : Please retry another cartridge
0x0Y000880	Cartridge execution failure : Please retry another cartridge
0x0Y000881	Cartridge execution failure : Please retry another cartridge
0x0Y000882	Cartridge execution failure : Please retry another cartridge
0x0Y0008A3	Cartridge execution failure : Please retry another cartridge
0x0Y0008DE	Cartridge execution failure : Please retry another cartridge
0x0Y0008E8	Cartridge execution failure : Please retry another cartridge
0x0Y0008E9	Cartridge execution failure : Please retry another cartridge
0x0Y0008EF	Failure while PCR Preparation (dosing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y0008F0	Failure while PCR Preparation (dosing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000907	Cartridge execution failure : Please retry another cartridge
0x0Y000942	Cartridge execution failure : Please retry another cartridge
0x0Y00094D	Failure while PCR Preparation (dosing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00094E	Failure while PCR Preparation (dosing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00094F	Failure while PCR Preparation (dosing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000950	Failure while PCR Preparation (dosing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000951	Failure while PCR Preparation (dosing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000952	Failure while PCR Preparation (dosing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000953	Failure while PCR Preparation (dosing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00096B	Cartridge execution failure : Please retry another cartridge
0x0Y00096C	Cartridge execution failure : Please retry another cartridge
0x0Y000988	Cartridge execution failure : Please retry another cartridge
0x0Y0009B0	Cartridge execution failure : Please retry another cartridge
0x0Y0009CF	Cartridge execution failure : Please retry another cartridge
0x0Y0009EC	Cartridge execution failure : Please retry another cartridge
0x0Y000A1E	Cartridge execution failure : Please retry another cartridge
0x0Y000A1F	Failure while PCR Preparation (dispensing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000A20	Failure while PCR Preparation (dispensing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000A21	Failure while PCR Preparation (dispensing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000A22	Failure while PCR Preparation (dispensing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000A23	Failure while PCR Preparation (dispensing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000A24	Failure while PCR Preparation (dispensing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000A25	Failure while PCR Preparation (dispensing). Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000AAA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000AAB	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000AAC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000AAD	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000AAE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000AAF	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000AB0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y000AB1	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000AB2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B18	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B72	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B73	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B74	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B75	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B76	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B77	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B78	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B79	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B7A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B7B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000B7C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BD6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BD7	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BD8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BD9	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BDA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BDB	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BDC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BDD	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BDE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000BE0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C3A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C3B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C3C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C3D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C3E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C3F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C40	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C41	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C42	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C44	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C9E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000C9F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y000CA0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000CA1	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000CA2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000CA3	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000CA4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000CA5	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000CA6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000CA8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D02	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D03	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D04	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D05	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D06	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D07	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D08	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D09	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D0A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D0C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D66	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D67	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D68	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D69	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D6A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D6B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D6C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D6D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D6E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000D70	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000DCA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000DCB	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000DCC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000DCD	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000DCE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000DCF	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000DD0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000DD1	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y000DD2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000DD4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E2E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E2F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E30	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E31	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E32	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E33	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E34	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E35	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E36	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E38	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E92	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E93	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E94	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E95	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E96	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E97	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E98	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E99	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E9A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000E9C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000EF6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000EF7	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000EF8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000EF9	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000EFA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000EFB	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000EFC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000EFD	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000EFE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F00	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F5A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F5B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F5C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F5D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y000F5E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F5F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F60	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F61	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F62	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000F64	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FBE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FBF	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FC0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FC1	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FC2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FC3	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FC4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FC5	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FC6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y000FC8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001022	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001023	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001024	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001025	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001026	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001027	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001028	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001029	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00102A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00102C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001086	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001087	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001088	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001089	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00108A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00108B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00108C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00108D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00108E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y001090	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010EA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010EB	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010EC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010ED	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010EE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010EF	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010F0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010F1	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010F2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0010F4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00114E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00114F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001150	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001151	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001152	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001153	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001154	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001155	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001156	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001158	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011B2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011B3	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011B4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011B5	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011B6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011B7	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011B8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011B9	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011BA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0011BC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001216	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001217	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001218	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001219	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y00121A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00121B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00121C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00121D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00121E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001220	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00127A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00127B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00127C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00127D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00127E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00127F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001280	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001281	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001282	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001284	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0012DE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0012DF	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0012E0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0012E1	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0012E2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0012E3	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0012E4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0012E6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0012E8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001342	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001343	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001344	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001345	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001346	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001347	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001348	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001349	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00134A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00134C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y0013A6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0013A7	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0013A8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0013A9	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0013AA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0013AB	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0013AC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0013AD	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0013AE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0013B0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00140A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00140B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00140C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00140D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00140E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00140F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001410	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001411	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001412	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001414	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00146E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00146F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001470	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001471	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001472	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001473	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001474	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001475	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001476	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001478	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0014D2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0014D3	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0014D4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0014D5	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y0014D6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0014D7	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0014D8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0014D9	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0014DA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0014DC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001536	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001537	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001538	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001539	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00153A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00153B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00153C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00153D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00153E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001540	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00159A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00159B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00159C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00159D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00159E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00159F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0015A0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0015A1	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0015A2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0015A4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0015FE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0015FF	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001600	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001601	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001602	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001603	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001604	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001605	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001606	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y001608	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001662	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001663	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001664	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001665	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001666	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001667	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001668	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001669	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00166A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00166C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016C6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016C7	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016C8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016C9	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016CA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016CB	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016CC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016CD	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016CE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0016D0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00172A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00172B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00172C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00172D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00172E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00172F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001730	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001731	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001732	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001734	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00178E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00178F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001790	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001791	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001792	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y001793	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001794	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001795	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001796	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001798	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017F2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017F3	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017F4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017F5	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017F6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017F7	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017F8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017F9	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017FA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0017FC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001856	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001857	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001858	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001859	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00185A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00185B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00185C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00185D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00185E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001860	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018BA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018BB	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018BC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018BD	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018BE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018BF	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018C0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018C1	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018C2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0018C4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00191E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y00191F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001920	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001921	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001922	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001923	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001924	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001925	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001926	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001928	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001982	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001983	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001984	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001985	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001986	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001987	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001988	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001989	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00198A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y00198C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019E6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019E7	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019E8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019E9	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019EA	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019EB	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019EC	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019ED	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019EE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0019F0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001A4A	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001A4B	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001A4C	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001A4D	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001A4E	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001A4F	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AAF errors

Error Code	Message
0x0Y001A50	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001A51	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001A52	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001A54	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001AAE	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001AAF	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001AB0	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001AB1	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001AB2	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001AB3	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001AB4	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001AB5	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y001AB6	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services
0x0Y0001AB8	Failure while executing PCR. Please retry another cartridge. If this error persist please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y008025	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008026	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008027	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008028	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008029	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00802A	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00802B	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00802C	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00802E	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00807F	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008080	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008081	Failure on assay execution. Please contact QIAGEN Technical Services
0x0Y0080FF	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008100	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008101	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008102	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008103	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008104	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008105	Failure on analytical module. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y008106	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008107	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00813F	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008140	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008141	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00817F	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008180	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008181	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y0081FF	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008200	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008201	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008202	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008203	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008204	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008205	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008206	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008207	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008208	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008209	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00820A	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00820B	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00822F	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008230	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008231	Failure on qPCR stage. Please contact QIAGEN Technical Services
0x0Y008232	Failure on qPCR stage. Please contact QIAGEN Technical Services
0x0Y008233	Failure on syringe positioning. Please contact QIAGEN Technical Services
0x0Y008234	Failure Thermal Unit motor positioning. Please contact QIAGEN Technical Services
0x0Y008235	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008236	Failure on qPCR stage. Please contact QIAGEN Technical Services
0x0Y008237	Failure on syringe positioning. Please contact QIAGEN Technical Services
0x0Y008238	Failure Thermal Unit motor positioning. Please contact QIAGEN Technical Services
0x0Y008250	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008251	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008252	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008253	Failure on analytical module. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y008254	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008255	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y0082A0	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y0082A1	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y0082A2	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y0082A3	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y0082FF	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008300	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008301	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008302	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008303	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008304	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008305	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008306	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008307	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008308	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008309	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00830A	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00830B	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y00830C	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y00830D	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y00830E	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00830F	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008310	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008311	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008312	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008313	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008314	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008315	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008316	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008317	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008318	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008319	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00831A	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y00831B	Motor Failure (TC2). Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y00831C	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y00831D	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00831E	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00831F	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008320	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008321	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008322	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008323	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008324	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008325	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008326	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008327	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008328	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008329	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y00832A	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y00832B	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y00832C	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00832D	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00832E	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y00832F	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008330	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008331	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008332	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008333	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008334	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008335	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008336	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008337	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008338	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008339	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y00833A	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y00833B	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00833C	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00833D	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y00833E	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y00833F	Motor Failure (CC). Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y008340	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008341	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008342	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008343	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008344	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008345	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008346	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008347	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008348	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008349	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y00834A	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00834B	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00834C	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y00834D	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y00834E	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y00834F	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008350	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008351	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008352	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008353	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008354	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008355	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008356	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008357	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008358	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008359	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00835A	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00835B	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y00835C	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y00835D	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y00835E	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00835F	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008360	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008361	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008362	Motor Failure (CC). Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y008363	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008364	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008365	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008366	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008367	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008368	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008369	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00836A	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y00836B	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y00836C	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y00836D	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00836E	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00836F	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y008370	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y00837C	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y00837D	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y00837E	Motor Failure (TC1). Please contact QIAGEN Technical Services
0x0Y00837F	Motor Failure (TC2). Please contact QIAGEN Technical Services
0x0Y008380	Motor Failure (CC). Please contact QIAGEN Technical Services
0x0Y008381	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008382	Motor Failure (Lid). Please contact QIAGEN Technical Services
0x0Y008383	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008384	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y008387	Motor Failure (BB). Please contact QIAGEN Technical Services
0x0Y0083FF	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008400	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008401	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008402	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008403	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008404	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008405	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008406	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008407	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008408	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008409	Failure on analytical module. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y00840A	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00840B	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00840C	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008410	Cartridge can be reused. If error persists please contact QIAGEN Technical Services
0x0Y008411	Cartridge can be reused. If error persists please contact QIAGEN Technical Services
0x0Y008412	Cartridge can be reused. If error persists please contact QIAGEN Technical Services
0x0Y008413	Cartridge can be reused. If error persists please contact QIAGEN Technical Services
0x0Y008414	Cartridge can be reused. If error persists please contact QIAGEN Technical Services
0x0Y008417	Cartridge can be reused. If error persists please contact QIAGEN Technical Services
0x0Y008418	Cartridge can be reused. If error persists please contact QIAGEN Technical Services
0x0Y00841F	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008420	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008421	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008422	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008423	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008424	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008425	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008426	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008427	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008428	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008429	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00842A	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00842B	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00842C	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00842D	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00842E	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00842F	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008430	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008431	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008432	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008433	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008434	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008435	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008436	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008437	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008438	Failure on Thermal Unit. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y008439	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00843A	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00843B	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00843C	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00843D	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00843E	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00843F	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008440	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008441	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008442	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008443	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008444	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008445	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008446	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008447	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008448	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008449	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00844A	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00844B	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00844C	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00844D	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00844E	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00844F	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008450	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008451	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008452	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008453	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008454	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008455	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008456	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008457	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008458	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008459	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00845A	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00845B	Failure on Thermal Unit. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y008460	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008461	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008462	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008463	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008464	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008465	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008466	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008467	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008468	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008469	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00846A	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008470	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008471	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008472	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008473	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008474	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008475	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008476	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008477	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008478	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008479	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00847A	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00847B	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00847C	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008480	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008481	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008482	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008483	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008484	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008485	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008486	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008487	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008488	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008489	Failure on Thermal Unit. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y00848A	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00848B	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00848C	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008490	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008491	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008492	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008493	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008494	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008495	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008496	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008497	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008498	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y008499	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00849A	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00849B	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00849C	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00849D	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00849E	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y00849F	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084A0	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084A1	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084A2	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084A3	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084A4	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084A5	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084A6	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084B0	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084B1	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084B2	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084B3	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084B4	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084B5	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084B6	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084B7	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084B8	Failure on Thermal Unit. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y0084B9	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084BA	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084BB	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084BC	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084BD	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084BE	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084BF	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084C0	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084C1	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084C2	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084C3	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084C4	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084C5	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084C6	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084C7	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084C8	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084D0	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084D1	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084D2	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084D3	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084D4	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E0	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E1	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E2	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E3	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E4	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E5	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E6	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E7	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E8	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084E9	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084EA	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084EB	Failure on Thermal Unit. Please contact QIAGEN Technical Services
0x0Y0084FF	Failure on Thermal Unit. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y008500	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008501	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008502	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008504	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008508	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008510	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008520	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008540	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008580	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008581	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00858F	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008605	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008606	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008607	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008608	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008609	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00860A	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00860B	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00860C	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00860D	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00860E	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00860F	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008610	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008611	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008612	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008613	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008614	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008615	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008616	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008617	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008618	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008619	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00861A	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00861B	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y0086EF	Failure on analytical module. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y0086F0	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y0086FF	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008700	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008701	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008702	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y008703	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y008704	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y008705	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y008706	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y008707	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y008708	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y008709	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y00870A	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y00870B	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y00870C	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y00870D	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y00877F	Failure on TRF module. Please contact QIAGEN Technical Services
0x0Y008780	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008781	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008782	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008783	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008784	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008785	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008786	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008787	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008788	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008789	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00878A	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00878B	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00878C	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00878D	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00878E	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00878F	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008790	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008791	Failure on qPCR module. Please contact QIAGEN Technical Services

Error Category: AM errors

Error Code	Message
0x0Y008792	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008793	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008794	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008795	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008796	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008797	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008798	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008799	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00879A	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00879B	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00879C	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00879D	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00879E	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y00879F	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y0087FF	Failure on qPCR module. Please contact QIAGEN Technical Services
0x0Y008800	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008801	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008802	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008803	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008804	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008805	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008806	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008807	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008808	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y008809	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00880A	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00880B	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00880C	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00880D	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00880E	Failure on analytical module. Please contact QIAGEN Technical Services
0x0Y00881F	Failure on analytical module. Please contact QIAGEN Technical Services

Error Category: RCA errors

Error Code	Message
0x0Y010001	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y010002	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y010003	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y010004	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y010005	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y010006	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y010007	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y010009	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y010010	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y011001	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y011002	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y011003	Failure in the instrument, please contact QIAGEN Technical Services
0x0Y014000	Failure in the Analytical Module, please contact QIAGEN Technical Services
0x0Y014001	Cartridge execution failure. Please retry another cartridge and contact QIAGEN Technical Services
0x0Y014002	Failure in the Analytical Module, please contact QIAGEN Technical Services
0x0Y014003	Cartridge execution failure. Please retry another cartridge and contact QIAGEN Technical Services
0x0Y014004	Abnormal software failure. Please retry another cartridge and contact QIAGEN Technical Services
0x0Y014005	Abnormal software failure. Please retry another cartridge and contact QIAGEN Technical Services

10. Technical Specifications

10.1. Environmental conditions – operating conditions

Table 20. Environmental conditions

Description	Requirement
Power	200–240 VAC
Air temperature	15–25°C
Relative humidity	20–80%
Altitude	0–2200 m
Place of operation	Laboratory (Inside) Instrument operation footprint is 58 cm but, temporary space of 1.5 m is required for installation and service interventions.

10.2. Mechanical data and hardware features

Table 21. Mechanical data

Description	Requirement
Dimensions (door closed)	Height: 1280 mm, depth: 810 mm, width: 580 mm
Dimensions (door open)	Height: 1280 mm, depth: 810 mm, width: 1500 mm
Weight	130 kg
~ Weight with 8 AM	260 kg
Capacity	8 Analytical modules, 18 QIAstat-Dx cartridges

11. Appendix A

11.1. License Terms

TERMS AND CONDITIONS of a LEGAL AGREEMENT (the "Agreement") by and between QIAGEN GmbH, QIAGEN Strasse 1, D-40724 Hilden, Germany, ("QIAGEN") and you (either an individual or a legal entity), the licensee of the software (hereinafter referred to as "SOFTWARE")

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Note: For additional license agreements of third-party software included in the QIAstat-Dx Rise, navigate to SETTINGS > SYSTEM > SYSTEM LICENSES

5. LIMITED WARRANTY

QIAGEN warrants that (a) the SOFTWARE will perform substantially in accordance with the accompanying printed materials for a period of ninety (90) days from the date of receipt. Any implied warranties on the SOFTWARE are limited to ninety (90) days. Some states/jurisdictions do not allow limitations on duration of an implied warranty, so the above limitation may not apply to you.

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In no event shall QIAGEN or its suppliers be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss, unforeseeable damage, lack of commercial success, indirect damage or consequential damage – in particular financial damage – or for damage resulting from third party claims) arising out of the use or inability to use the SOFTWARE, even if QIAGEN has been advised of the possibility of such damages.

The above restrictions of liability shall not apply in cases of personal injury or any damage resulting from willful acts or gross negligence or for any liability based on the Product Liability Act (Produkthaftungsgesetz), guarantees or other mandatory provisions of law.

The above limitation shall apply accordingly in case of:

- delay,
- compensation due to defect,
- compensation for wasted expenses.

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Nothing in this agreement shall obligate QIAGEN to provide any support for the SOFTWARE. QIAGEN may, but shall be under no obligation to, correct any defects in the SOFTWARE and/or provide updates to licensees of the SOFTWARE. You shall make reasonable efforts to promptly report to QIAGEN any defects you find in the SOFTWARE, as an aid to creating improved revisions of the SOFTWARE.

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This Agreement shall be construed and interpreted in accordance with the laws of Germany, without giving effect to conflict of laws' provisions. The application of the provisions of the UN Sales Convention is excluded. Notwithstanding any other provision under this Agreement, the parties to this Agreement submit to the exclusive jurisdiction of the Düsseldorf courts.

11.2. License agreements of third-party software

For the license texts of third-party software please refer to **www.qiagen.com/QIAstat-Dx-Rise-License-Terms**

SwiftDecoderTM decoding software licensed by Honeywell; Patent: **hsmpats.com**

11.3. Waste Electrical and Electronic Equipment (WEEE)

This section provides information about disposal of waste electrical and electronic equipment by users.

The crossed-out wheeled bin symbol (see below) indicates that this product must not be disposed of with other waste; it must be taken to an approved treatment facility or to a designated collection point for recycling, according to local laws and regulations.

The separate collection and recycling of waste electronic equipment at the time of disposal helps to conserve natural resources and ensures that the product is recycled in a manner that protects human health and the environment.



Recycling can be provided by QIAGEN upon request at additional cost. In the European Union, in accordance with the specific WEEE recycling requirements and where a replacement product is being supplied by QIAGEN, free recycling of its WEEE-marked electronic equipment is provided.

To recycle electronic equipment, contact your local QIAGEN sales office for the required return form. Once the form is submitted, you will be contacted by QIAGEN either to request follow-up information for scheduling collection of the electronic waste or to provide you with an individual quote.

11.4. FCC Declaration (US)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

11.5. Liability Clause

QIAGEN shall be released from all obligations under its warranty in the event repairs or modifications are made by persons other than its own personnel, except in cases where the Company has given its written consent to perform such repairs or modifications.

All materials replaced under this warranty will be warranted only for the duration of the original warranty period, and in no case beyond the original expiration date of original warranty unless authorized in writing by an officer of the Company. Read-out devices, interfacing devices, and associated software will be warranted only for the period offered by the original manufacturer of these products. Representations and warranties made by any person, including representatives of QIAGEN, which are inconsistent or in conflict with the conditions in this warranty shall not be binding upon the Company unless produced in writing and approved by an officer of QIAGEN.

11.6. Disclaimer of warranties

EXCEPT AS PROVIDED IN QIAGEN TERMS AND CONDITIONS OF SALE FOR THE QIAstat-Dx Rise, QIAGEN ASSUMES NO LIABILITY WHATSOEVER AND DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY RELATING TO THE USE OF THE QIAstat-Dx Rise INCLUDING LIABILITY OR WARRANTIES RELATING TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT, OR OTHER INTELLECTUAL PROPERTY RIGHT ANYWHERE IN THE WORLD.

The QIAstat- Dx Rise is equipped with an Ethernet port. The Purchaser of the QIAstat- Dx Rise is solely responsible for preventing any and all computer viruses, worms, trojans, malware, hacks, or any other type of cybersecurity breaches.

QIAGEN assumes no liability for computer viruses, worms, trojans, malware, hacks, or any other type of cybersecurity breaches.

Appendix B

Glossary

Table 22. Glossary

Term	Description
AAF	Assay Automation File
ADF	Assay Definition File. Is a file necessary for executing an assay on a QIAstat-Dx Rise. The content of the file describes what can be measured, how to measure it and how to evaluate the raw measurement results. The file should be imported to the QIAstat-Dx Rise before executing an assay the first time. Assay files could be uploaded by QIAGEN field service engineer.
AM	Analytical Module. A QIAstat-Dx Rise hardware module, in charge of executing tests on QIAstat-Dx Rise assay cartridges.
GUI	Graphical user interface
MC	Master Controller
PLC	Programmable Logic Controller
RCA	Results Call Algorithm
RF	Radiofrequency
User	A person who operates the QIAstat-Dx Rise in the intended way.
LIS	Laboratory Information System

Ordering Information

Product	Contents	Cat. no.
QIAstat-Dx Rise		9003163
QIAstat-Dx Analytical Module	Module contains the hardware and software for sample testing and analysis	9002814
Related products		
Air Filter Tray, AM, QSTAT	Air filter	9026189

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit instructions for use or user manual. QIAGEN kit instructions for use and user manuals are available at **www.qiagen.com** or can be requested from QIAGEN Technical Services or your local distributor.

Document Revision History

Revision	Changes
R4, August 2024	Release of SW Version 2.4
R5, August 2025	Intended Use updated Minor updates in Introduction section
R6, August 2026	Release of SW Version 2.5 Updated Installation Procedures section: • Add information regarding the required AMs installed in QIAstat-Dx Rise to operate • Moved instructions to start QIAstat-Dx Rise to this section Modified Running Test and Viewing Results section • Removed instructions to start QIAstat-Dx Rise from this section • Updated Preparing the QIAstat-Dx Rise assay cartridge section to add instructions when using a swab for a sample • Added a note regarding character limitations for Sample ID • Added a sentence about GS1 barcodes • Note added about enabled Force Orders feature • Added section for viewing AMR genes Added information regarding availability of network share connection feature Updated Operating Procedures section: • Included updates to the main navigation bar about logout • Update to Settings menu regarding instrument idle state • Updated Assay Management subsection • Added information about automatic logout in General settings subsection • Updated Connectivity settings subsection • Updated User management subsection to add information regarding passwords Updated information in HIS/LIS Connectivity section Revised steps in decontaminating QIAstat-Dx Rise trays in Maintenance section Updated error and warning messages in Troubleshooting section Added FCC Declaration (US) in Appendix A Added description of LIS in Appendix B: Glossary

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