

GeneXpert[®] System with Touchscreen GX II – GX IV Installation Training

Speaker's Name Date

302-8140 Rev. A February 2022

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Training Agenda

1	The Package
2	Environmental and Safety Requirements
3	System Installation and Set-Up
4	Powering Up the System and Cepheid OS Configuration
5	Data Collection
6	Discussion

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Training Objectives

The general objective of this module is to guide you through the installation of the GeneXpert[®] system with touchscreen.

At the end of the training, users will be able to:

- Consider environmental conditions for proper installation
- Install and configure the GeneXpert[®] system with touchscreen
- Communicate the required information to Cepheid, after installation





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Intended Use

- The GeneXpert[®] system with touchscreen running Cepheid OS version 1.0 automates and integrates sample preparation, nucleic acid amplification, and detection of the target sequence in simple or complex samples using real-time Polymerase Chain Reaction (PCR).
- The system is suited for in vitro diagnostic applications that require hands-off processing of patient samples (specimens) and provides summarized detailed test results data in tabular format.
- The GeneXpert[®] system with touchscreen running Cepheid OS version 1.0 is designed for use with Xpert[®] assay applications.
- The GeneXpert[®] system with touchscreen is intended to be used by trained users in accordance with the test environment specified in the assay instructions for use.

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The Package

GeneXpert[®] System with Touchscreen

- Thermal and optical module(s)
- Touchscreen unit with integrated LED barcode scanner
- Simplified and intuitive Cepheid OS software
- USB Wi-Fi dongle for ethernet connection
- Padlock for instrument security

Required but Not Provided

- Assay Specific collection devices (*if applicable*)
- Assay Specific equipment (if applicable)
- Personal Protective Equipment
- Timer and Permanent marker

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Cartridge

- Self-contained
- Disposable
- Assay Definition File



Recommended Accessories

• Line interactive or online UPS

Optional Accessories

- Batteries/Power generator
- Printer





Environmental and Safety Requirements

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Define the Best Setting

Before installation, make sure that the GeneXpert[®] system will be:

In a well-ventilated room

In a temperature controlled (15° to 30°C) environment



Not directly under an air conditioning vent or in direct sunlight

Placed on a stable surface

Provide at least 15–20 cm of clearance on each side of the instrument

Near a power source (maximum 2 required; 1 when connection to the UPS)

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GeneXpert[®] System with Touchscreen Setup

Installation and Set-Up

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GeneXpert® System with Touchscreen Set Up GX IV



GeneXpert® System with Touchscreen Set Up GX II



UPS (Uninterruptible Power Supply)?

- An **uninterruptible power supply** is an electrical apparatus that provides emergency power when the input power source or mains power fails
- Support of a constant power supply prevents power interruptions, and power surges; Usage of a UPS reduces the risk of damage to the GeneXpert[®] instrument and repeat testing
- A UPS will provide near-instantaneous protection from input power interruptions, by supplying energy stored in batteries
- The on-battery run-time of most UPS is relatively short (only a few minutes) but sufficient to start a standby power source
- Line interactive or online UPS are highly recommended, particularly in areas prone to power outage and fluctuations

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Set Up the GeneXpert[®] System with Touchscreen to the UPS

1. If the power-saving mode is ON, a 'leaf' will appear in the Display Interface panel.





UPS Model: APC Back-UPS Pro BR1500

- Cepheid P/N 850-0386 (North America)
- Cepheid P/N 850-0387 (International)
- UPS Install Instructions: 302-0697 Rev C



Power-Saving—Master and Controlled outlets are enabled, saving power when the master device goes into sleep or standby mode

- 1. Disable the UPS power saving feature.

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2. Connect instrument and touchscreen units via the power adapter into a master outlet.



Wi-Fi Adapter Set Up



- 1. Insert the USB Wi-Fi adapter into an available USB port at the back of the Touchscreen.
- Install the necessary drivers, if prompted, using the CD in the adapter package. See the Connect a DVD Drive to the system instructions.
- 3. Follow the instructions provided by your network administrator to join your organization's wireless network.

Consult with your IT department/network admin for authorization to connect your GeneXpert[®] system with Touchscreen to your Wi-Fi network. They provide the required network connection details to establish the Wi-Fi connection.

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Touchscreen Lock Cable Installation



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Touchscreen Lock Cable Set Up

Setting a New Combination

The factory preset lock combination is 0-0-0-0.

- For increased security, you should change the combination to a more secure series of numbers
 - 1. Align the numbers on the Dial using the default combination 0-0-0-0 (Guide Line).
 - 2. **Push** the cable in towards the lock and hold it in place.
 - **3. Turn** the dials on the lock to the new combination that you want to set.
 - 4. Release the cable.
 - 5. For added security, turn the dials so that the combination isn't displayed in the combination display.

\rightarrow TIP: Write down the combination and keep it in a safe place.

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Powering Up the System & Cepheid OS Configuration

Power up the GeneXpert[®] System with Touchscreen System Identification User Management

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Start the GeneXpert[®] System with Touchscreen



If the unit requires to set up a new password, use "cphd"

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Verify Successful Start-up of the GeneXpert[®] System with Touchscreen



"For complete details on the GeneXpert® System, please refer to the GeneXpert® System Operators Manual" Windows® is a registered trademark of Microsoft Corporation.

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Configure your Windows[®] Operating System Language and Time Zone

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Identification of the GeneXpert[®] System with Touchscreen: Admin Profile

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dministration		General Settings	EDIT	General Settings	CANCEL
REPORTS	USERS	System Name Gene Name		System Name Serial Number + Site Name	
A Management RETRIEVE TESTS ARCHIVE TESTS	DATABASE MAINTENANCE	Date Format: MM/DD/YY *		Date Format: DD/MM/YY -	
MANAGE ASSAYS		Time Format: 24 Hour (hh:mm:ss)		Time Format: 24 Hour (hh:mm:ss)	-
tem Configuration		Patient Information		Patient Information	
GENERAL SETTINGS FOLDERS	QC LOCKOUT SETTINGS	III Use Patient ID		Use Patient ID	
ARCHIVE SETTINGS CONFIGURE BARCODE SCANNER		Patient ID 2 Patient Name		 Patient ID 2 Patient Name 	
st				Institutional ID	
MANAGE HOST ORDERS HOST TEST CODE SETTINGS	HOST COMMUNICATION SETTINGS			Login with Institutional ID	

- 1. On the HOME screen select ADMIN > GENERAL SETTINGS
- 2. Tap **EDIT** to change any entries on this General Settings Screen
- In the field « system Name » rename the system: Serial Number + Site Name recommended
- 4. Then tap **CONFIRM** to activate changes



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User Management Rules

User functions by roles:	User Role	Run Test	View Results	Perform Maintenance	Perform Administrative and System Functions
	Basic	Yes	Yes	Limited	No
	Administrator	Yes	Yes	Yes	Yes

- The first user created must be an ADMIN profile
- Requirements to add a validated user on User List:
 - Username: min 6 up to 128 characters
 - + cannot contain: spaces, or these characters: | : * " < > / \?
 - User Password: min 6 up to 128 characters + cannot contain: spaces

Note: User expiration date and permission level are received and managed by the Data Manager

- User Expiration Date: refers to the end of a one-year period after user certification
- User Permission Level: from 1 (Admin user) to 4 (Basic user)

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User Management: Add or Remove Users Locally (without Host Communication)

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Administration REPORTS INSTRUMENT USERS Data Management ARCHIVE TESTS DATABASE MAINTENANCE	Users Totar Units	ers 0 Q Sound Name ACCUMER DELETE LUER Full Name * Disc Type * C)	Add User	
MANAGE ASSAYS System Configuration General settings Archeve settings Configure barcode scanner	2. Tap ADD	USER	Conten Tearnage Conten Tearnage Unier Type Basic	
Host MANAGE HOST ORDERS HOST TEST CODE SETTINGS HOST COMMUNICATION SETTINGS	< BACK Add User	HOME RESULTS QC ADMIN (=)	4. Then tap CC to activate c	DNFIRM hanges
 On the HOME screen select ADMIN > USERS 	3 User None Full Name Full Name Passend Contem Passend User Tas Basic			

3. Enter the User Name, the Full Name, Password of the user, Confirm the Password, and Select the User Type (Administrator for the first add; or Basic)

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User Management: User Lists from Data Management System (DMS connection activated)

Administration		
REPORTS	INSTRUMENT	USERS
Data Management		
RETRIEVE TESTS	ARCHIVE TESTS	DATABASE MAINTENANCE
MANAGE ASSAYS		
System Configuration		
GENERAL SETTINGS	FOLDERS	QC LOCKOUT SETTINGS

1. On the HOME screen select ADMIN > HOST COMMUNICATION SETTINGS

< BACK		HOME	RESULTS	QC		₿
Host Communica	tion Settings		CANC	εL	CONFIRM	
Host Communic	ation					
O OFF	O HL7	O ASTM		O PC	DCT01	

Tap EDIT and select POCTO1 protocol; check the DMS connection is successful

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- 3. On the Receive from Data Manager part, tap USER LIST and USER VALIDATION SETTINGS
- 4. Then tap SYNC to update the user's list

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Administration				



 Check the user's list is updated: On the ADMIN screen select USERS > the user list appears

Note: When users are added locally and the system is later connected to a Data Management (DM) system, those local users are removed when the user list is updated. If a user is added to a DM system and the instrument is later connected to the DM, the user list that then appears locally is the last list that was downloaded from the DM.





Data to Collect and Send to Cepheid

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Documents to Save

 After the installation is complete, provide the following information to Cepheid Technical Service: serviceemea@cepheid.com



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Records



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Technical Assistance

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Technical Assistance

Before contacting Cepheid Technical Support, collect the following information:

Person in charge (name)	X
Phone number	X
Serial number of your GeneXpert [®] instrument	X
E-mail address	X
Address, City, Country	X
Serial number of your touchscreen unit	X
Installation date of the GeneXpert [®] system	xx/xx/xxxx
Description of the issue (software messages/codes)	X
Assay(s) used	X

When contacting Cepheid, please prepare this information in advance: www.cepheid.com/support

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Technical Assistance

Log your case online using the following link: http://www.cepheid.com/en/support

\rightarrow Create a Support Case

Contact local technical support

Region	Telephone	Email
US	+ 1 888 838 3222	techsupport@cepheid.com
Australia and New Zealand	+ 1800 130 821 + 0800 001 028	techsupportANZ@cepheid.com
Brazil and Latin America	+ 55 11 3524 8373	latamsupport@cepheid.com
China	+ 86 021 5406 5387	techsupportchina@cepheid.com
France	+ 33 563 825 319	support@cepheideurope.com
Germany	+ 49 69 710 480 480	support@cepheideurope.com
Spain	+ 34 919 90 67 62	support@cepheideurope.com
Portugal	+ 351 800 913 174	support@cepheideurope.com
India, Bangladesh, Bhutan, Nepal, and Sri Lanka	+ 91 11 48353010	techsupportindia@cepheid.com
Italy	+ 39 800 902 567	support@cepheideurope.com
South Africa	+ 27 861 22 76 35	support@cepheideurope.com
United Kingdom	+ 44 3303 332 533	support@cepheideurope.com
Othe European, Middle East, and African countries	+ 33 563 825 319 + 971 4 253 3218	support@cepheideurope.com
Other countries not listed	+ 1 408 400 8495	techsupport@cepheid.com

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Thank You

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