

Operational Precautions of the GeneXpert®



It is imperative that users read the GeneXpert® Operator's Manual and the Xpert® MTB/RIF protocols for comprehensive operating instructions, including important warnings relating to operator safety.

APPROPRIATE USE OF THE SYSTEM

- 1- Well ventilated room
- 2- Not directly under an air conditioning vent or window (no direct sunlight)
- 3- Controlled lab temperature (15-30°C)
- 4- GeneXpert® placed on stable work bench with no centrifuge close to it
- 5- Stable electricity supply (connected to UPS/surge protector)
- 6- Provide 5-10cm of clearance on each side of the instrument
- 7- Maintenance performed as recommended by Cepheid

Recommended

- Surge protector – UPS

Optional

- Safety Cabinet, if required according to institution guidelines
- Printer

PREVENTIVE MAINTENANCE

Daily Maintenance	Discard used cartridges, clean the work bench around the instrument Place the dust cover on the system when not in use
Weekly Maintenance	Restart the GeneXpert® system, then the computer Disinfect the cartridge bay interior
Monthly Maintenance	Disinfect the GeneXpert® surfaces Disinfect the plunger rods Archive the results and save them on a CD-ROM/RW-CD Clean the filter at the back of the system with soapy water
Calibration of modules	Calibrate the modules every year using Xpert® Cal or module replacement

Clean your system

- Sterile wipes (no cotton)
- 10% final concentration sodium hypochlorite (bleach) prepared within one day
- After 5 minutes, use 70% ethanol or isopropyl alcohol solution with a new wipe

DON'TS

Computer Software

- × Never install ANY non-approved software: this computer is dedicated to the GeneXpert®
- × Never alter the computer settings or pre-installed software
- × Never turn on or use other non-Windows firewall products

- × Never replace the system network connection
- × Never change the IP setting for the Ethernet connection to the GeneXpert Dx Software

- × Never install 2 antiviruses at the same time, as the computer will freeze
- × Never use USB stick-Flash keys to collect the data
- × Never use a USB hub

- × Never change the Cepheid user profile on Windows
- × Never change Windows update settings
- × Never accept Windows updates
- × Never create different windows profiles
- × Never change date/time/time zone when test is in progress
- × Never exclude a module from testing without Cepheid's authorization
- × Never change the folders tab where the data are saved
- × Never reinstall the GeneXpert DX software without Cepheid's authorization
- × Never run other software while test is in progress

DO'S

- ✓ Install the NORTON INTERNET SECURITY ANTIVIRUS with antispyware provided by Cepheid
- ✓ Update your antivirus from time to time
- ✓ In case the institution requires the use of another antivirus than the one provided, validate data communication between the instrument and the computer before installing

- ✓ Disable the "Automatically synchronize with internet time server" from Internet time on the Windows settings by deselecting the adjacent checkbox

- ✓ Save-Archive your data every week
- ✓ Log out from the GeneXpert Dx software (NOT WINDOWS) while test in progress: the system will continue to finish the test and save the results
- ✓ Use a hardisk or RW-CD-ROM to collect the data
- ✓ Disable the USB ports if you want to avoid Trojan horses/virus problems
- ✓ Store the Microsoft CDs provided with the system in a safe place

GeneXpert®

- × Never put the system in a place which is not stable
- × Never block the fan exhaust at the rear of the instrument
- × Never move the system when test is in progress
- × Never replace system parts without Cepheid's assistance
- × Never insert the swab inside the ICORE- module slot during cleaning procedure
- × Never install the system in an area with a heat source such as direct sunlight or the exhaust of another instrument
- × Never install the instrument on a bench containing an instrument that creates vibrations (such as a centrifuge)

- ✓ Install the system on a hard sturdy level surface and at recommended working temperature (15-30 °C)
- ✓ Power down your complete system at least once a week
- ✓ Wear disposable gloves for the cleaning procedure
- ✓ Follow the instructions to clean the system for appropriate use
- ✓ In case of need to replace parts in the system, wear an ESD wrist protection

Cartridge

- × Never store your cartridges at high or very low temperatures
- × Never store your cartridges ready with sample inside in the fridge or the freezer
- × Never pick up the cartridge by the PCR tube with your fingers
- × Never write the patient ID/sample ID on the barcode sticker at the front of the cartridge

- × Never tip the cartridge upside down once sample has been loaded
- × Never process a cartridge that has been dropped or shaken
- × Never process a cartridge with a damaged reaction tube
- × Never re-use a spent cartridge

- ✓ Store your kits at room temperature (2-28°C)
- ✓ Store your cartridge out of the pouch up to 30 min at 2-35 °C
- ✓ Pick-up the cartridge by its body (left and right side)
- ✓ Write the patient ID/ Sample ID on the left or right side of the cartridge

- ✓ Discard the cartridge after use

ASSISTANCE FROM CEPHEID



TECHNICAL HOTLINE - Europe based - Instrument errors

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A better way.