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Training Agenda

- 10-Color Module
 - Description
 - -I-CORE®
 - Module Calibration & Comparison
 - 10 color module requirements & Compatibility
- Daisy Kit Installation





Training Objective

• At the end of the training, you will be able to:

- Discover the 10 color module
- Identify the I-core basics
- Differentiate between a 6 color and 10 color
- Summarize the 10 color module requirements & Compatibility
- Outline Daisy kit installation procedure and requirements



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"This is the first PCR system with integrated 10-Color capability for your hospital, your lab and point of care settings."

David H. Persing, MD, PhD Executive Vice President Chief Medical and Technology Officer Cepheid

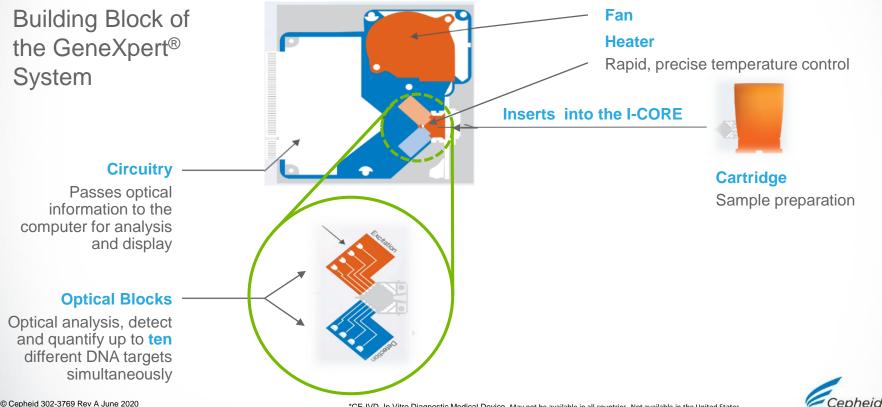
The Cepheid[®] Solution



- Automated sample preparation, nucleic acid
 amplification and detection of targeted sequences
- Uses real- time Polymerase Chain Reaction technique
- Enables higher degree of multiplexing targeting more than 6 genes
- Required for 10-Color Xpert tests
- On-demand results
- Random access



The I-CORE[®] Module



10-Color matrix: 4 additional New Dyes to existing 6-Color Modules

		iCore Detection			
	iCore Optical Channels	Blue + IR (420-477 nm + > 700 nm)	Green + Deep Red (510-535 nm + 660-680 nm)	Yellow (565-585 nm)	Red (620-645 nm)
iCore Excitation	UV (400 nm)	CF1			
	Blue (470 nm)		FAM	CF7 (FAM-CF3)	CF9
	Green (520 nm)	CF10 (CF3-CF6)		A532 (CF3)	CF8 (CF3-CF4)
	Yellow (574-584 nm)				TxR (CF4)
	Red (635 nm)	CF6	A647 (CF5)		



10-Color GeneXpert Instrument

	GeneXpert.
Blue Lip To distinguish 10-color Modules from 6-Color Modules	
	Cepheid.
Cenheid 302-3769 Rev & June 2020	Cepheid.



Comparison

6 color Module

- CF1, FAM, A532 (CF3), TxR (CF4), A647 (CF5), and CF6

10 color Module

No hardware change, same as 6 color Module

- CF1, FAM, A532 (CF3), TxR (CF4), A647 (CF5), and CF6
- Additional 4 colors calibrated = CF7, CF8, CF9, and CF10



10-Color module requirements

GeneXpert Systems

- GeneXpert Dx Software v4.7b or higher
- Supported on GeneXpert® R2 Systems: GX-I, GX-II, GX-4, GX-16
- 10-Color Modules can run any Xpert assay
- 10 color maintenance is equivalent to current 6-Color instrument
- Windows version is dependent on GeneXpert Software

Optional

- Uninterruptible Power Supply /Surge Protector <u>highly recommended</u>
- 120V North America p/n: 850-0386
- 230V International p/n: 850-0387
- Daisy Kit to connect multiple instruments to one computer p/n: daisykit

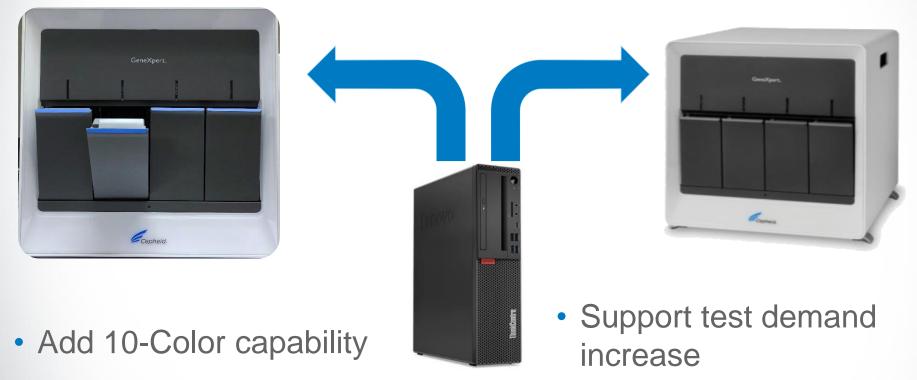


Daisy-kit Installation



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Why connect multiple GeneXpert[®] instruments together with the daisy chain kit?



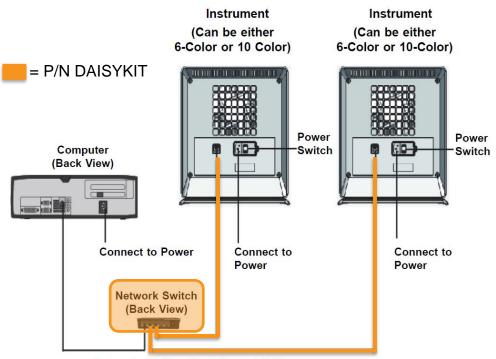


Daisy kit software

- Max # of Module is dependent on GX DX Software :
 - <u>GeneXpert Dx Software Version 4.7b to 6.1</u> support up to 4 GeneXpert GX-I, GeneXpert GX-II, or GeneXpert GX-IV (16 modules in total)
 - The GX-XVI cannot be daisy chained with SW 4.7 or older software
- GeneXpert Dx Software Version 6.2 and higher Up to 22 GeneXpert modules (10- or 6-color) in any combination of GeneXpert GX-I, GeneXpert GX-II, or GeneXpert GX-IV or GeneXpert XV1 instruments can be connected to a single computer.



DAISY NETWORK CONNECTIONS

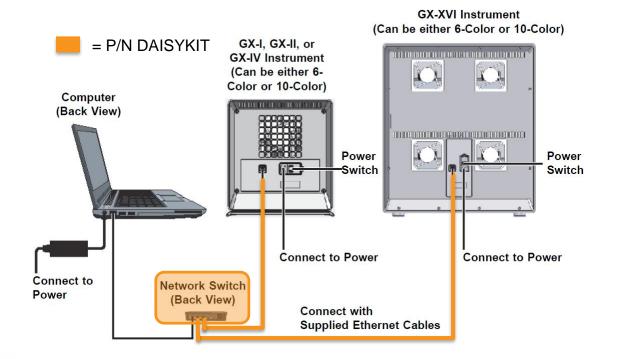


Connect with Supplied Ethernet Cables

Reference: Operator manual 302-0670 rev D Section 2.5



DAISY KIT NETWORK CONNECTIONS

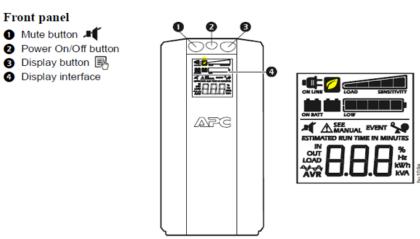


Reference: Operator manual 302-0670 rev D Section 2.5



Disable power saving feature for UPS with DAISYKIT

1. If the power-saving mode is ON, a 'leaf' a 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

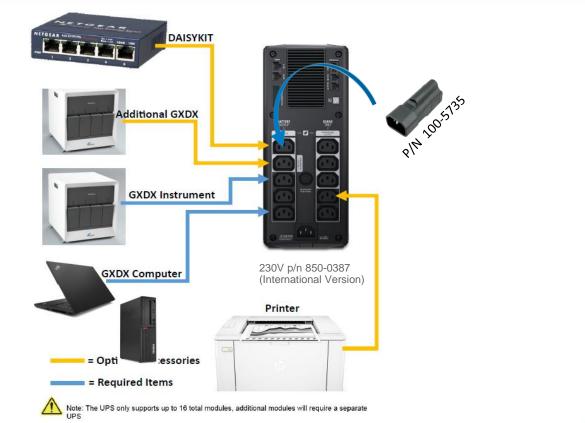


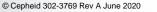
Power-Saving—Master and Controlled outlets are enabled, saving power when the master device goes into sleep or standby mode

2. Press MUTE I and DISPLAY Buttons at the same time for 2 seconds to disable the power-saving feature. The leaf icon will darken (it will not be visible) and the UPS will beep once. Note: if the leaf icon is illuminated, the power-saving feature is still enabled.



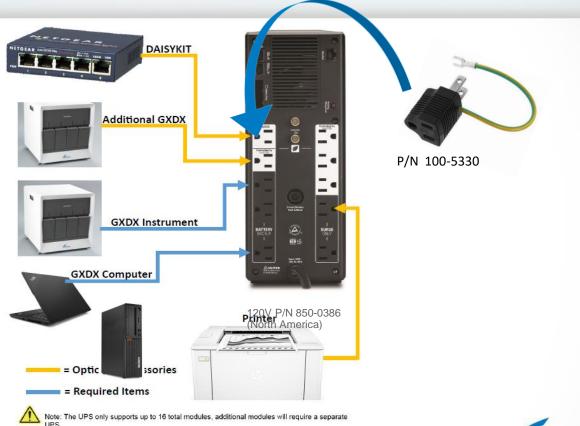
International UPS Power connections (P/N 850-0387)







North America UPS Power connections (P/N 850-0386)





Technical Assistance

- Before contacting Cepheid Technical Support, collect the following information:
 - Product name
 - Lot number
 - Serial number of the System
 - Error messages (if any)
 - Software version and, if applicable, Computer Service Tag number
- Log your complaint online using the following link: <u>https://www.cepheid.com/support</u>



Thank You.

Cepheid.

www.Cepheid.com

