

The GeneXpert® System

Game-changing performance.





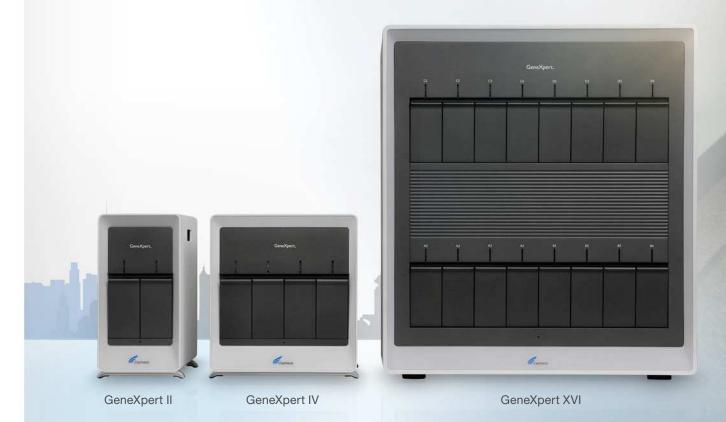
WE CAN'T THINK OF BETTER WORDS THAN "GAME CHANGING"

Improving patient outcomes is the primary goal of any diagnostic system. But our GeneXpert® family of systems have set a new standard in workflow flexibility, 24/7 testing accuracy, and user-friendly design — delivered in an astonishingly beautiful and compact package.

But we've done more than just repackage a good thing — we've improved on the fit, form, and function of the most popular molecular diagnostic platform on the market.

GeneXpert System technology is the cornerstone of our unique approach to a molecular diagnostics product suite, which allows us to offer a complete menu of tests on a single, fully scalable, consolidated workstation.

The GeneXpert System is available in a two, four, or 16-module configuration. All have our proven GeneXpert module at their analytic heart, and use the same patented cartridge technology for every Xpert® test.







GAME CHANGER: SPEED

When it comes to speed, other molecular analyzers simply can't compete.

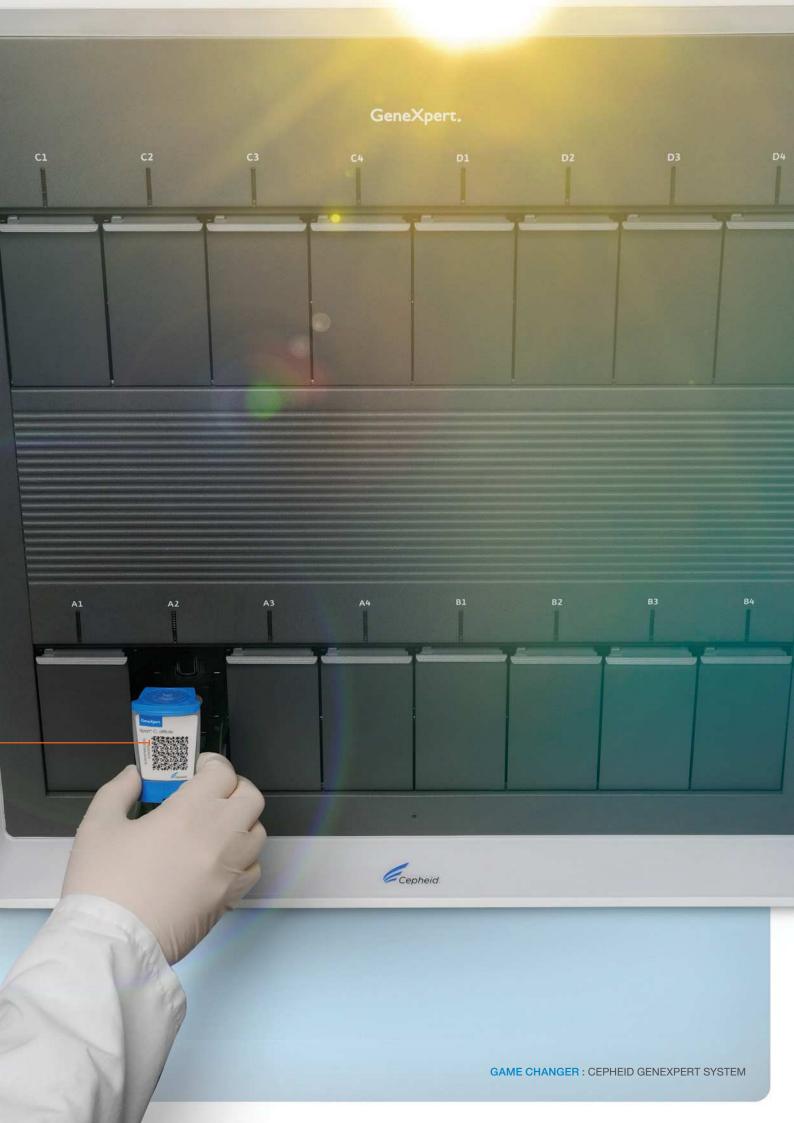
The GeneXpert® System returns most test results in about an hour, including sample preparation! Our systems deliver results even faster than many alternative technologies, such as EIA or Immunoassay.

With the GeneXpert System, labs no longer need rows of equipment and extensively trained staff to deliver molecular results. No matter which GeneXpert System you choose, Cepheid's technology makes on-demand molecular testing available to everyone with unprecedented speed and ease-of-use.

Our patented cartridges also deliver unsurpassed accuracy across the broadest possible menu, and are virtually unlimited in the sample types they can process.

GeneXpert Cartridge -

The cornerstone of the GeneXpert testing process is Cepheid's patented, self-contained, single use cartridge. Sample extraction, amplification and detection are all carried out within this self-contained "laboratory in a cartridge".





GAME CHANGER: SIZE

With its compact design, the GeneXpert® System allows for portability in the field and can run tests just about anywhere.

In fact, due to the recent World Health Organization (WHO) endorsement of our systems, Cepheid is now making molecular diagnostics a reality, even in the most remote places on earth.

The decreased system footprint and consolidated testing design creates space-saving efficiency, reducing the need

for multiple testing platforms. These new systems are also designed to be stackable, for those labs where space is a particular issue.

And we've now introduced a new configuration, the two-module GeneXpert System, to provide even more options for smaller institutions.





Photographs courtesy of Michael Hoelscher, University Munich/Mbeya Medical Research Programme



Processing Unit

A four-site GeneXpert System can be configured with 2, 3 or 4 modules. A 16-site system can be configured with 4, 8, 12, or 16 modules. For the highest throughput applications, a GeneXpert Infinity System can scale to 80 modules. All systems can be easily upgraded with additional modules.





GAME CHANGER: IMPACT

The GeneXpert® System fully integrates and automates sample extraction, amplification, and detection — all in one cartridge. On-demand. Just load a biological sample and the system does the rest.

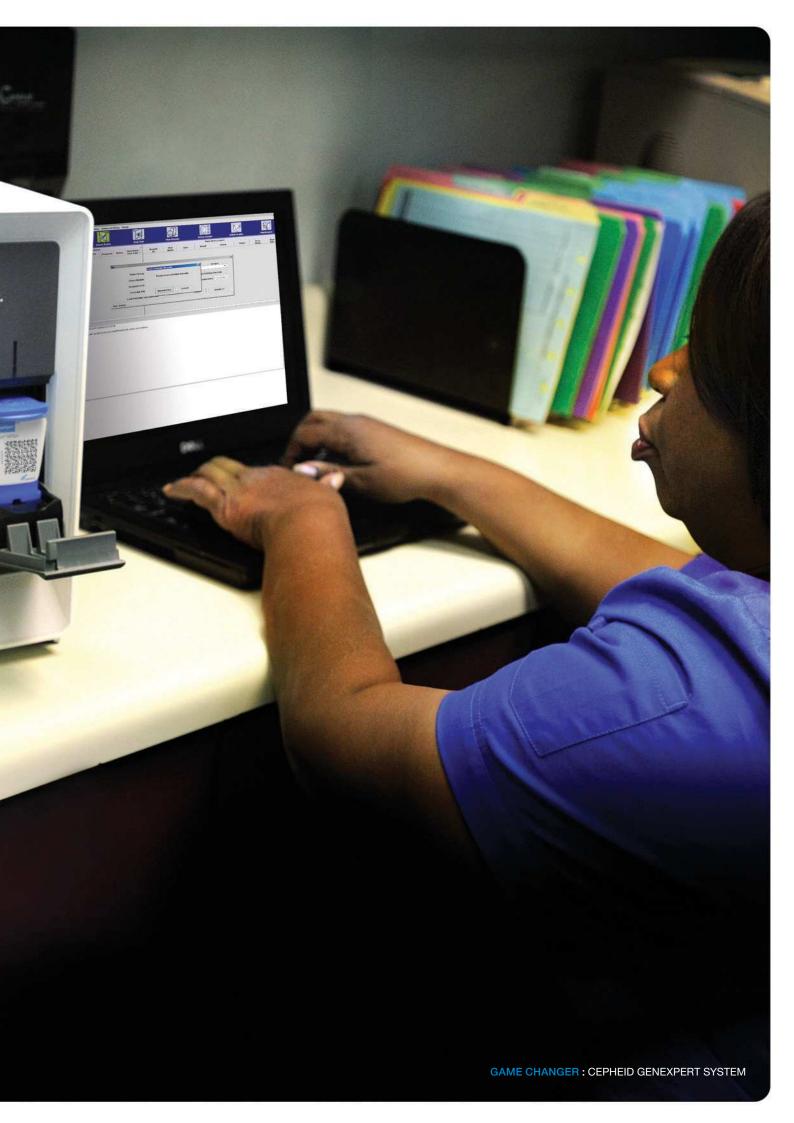


While implementing rapid MRSA surveillance testing with the GeneXpert® System, there were 138 patient care days saved and 230 more admissions, generating additional revenue of \$1,150,000 during the 2007 – 2008 period."

Denise Uettwiller-Geiger, Ph.D., DLM (ASCP)

Director of Laboratory Services and Clinical Trials

John T. Mather Memorial Hospital







Specifications

OPTICS

Dye detection limit < 1 nM

OPTICAL CHANNEL CHARACTERIZATION

Channel	Excitation	Emission	Calibrated Reporter Dye
1	375-405	420-480	CF 1
2	450-495	510-535	FAM
3	500-550	565-590	Alexa Fluor® 532
4	555-590	606-650	Texas Red®
5	630-650	665-685	Alexa Fluor® 647
6	630-650	>700	CF 6

REACTION SITE THERMAL CONTROLS

- Solid state heater and forced-air cooling at each site
- Reaction chamber thermistors calibrated to ± 1.0°C using National Institute of Standards and Technology (NIST)-traceable standards
- Up to 16 independently-controlled reaction sites

CARTRIDGES

Single-use disposable cartridges Polypropylene construction

PERFORMANCE PARAMETERS

Heating ramp rates (max.): 10°C/sec from 50°C to 95°C

Cooling ramp rates (max.): 2.5°C/sec from 95°C to 50°C

Temperature duration accuracy: ± 1.0 sec from programmed time

Temperature accuracy: ± 1.0°C from 60°C to 95°C

Melt curve programmable ramp rates: 0.01°C/sec to 1.0°C/sec

PHYSICAL DIMENSIONS

GX-II Processing Unit: 16.13 cm W x 30.48 cm H x 29.72 cm D

GX-IV Processing Unit: 27.94 cm W x 30.48 cm H x 29.72 cm D

GX-XVI Processing Unit: 57.79 cm W x 65.53 cm H x 33.66 cm D

POWER REQUIREMENTS

Rated Voltage: 100-240 V~, 50-60 Hz

Rated Current GX-II: 1.5A @ 100V~, 0.75 A @ 200V~

Rated Current GX-IV: 1.9A @ 100V~, 0.95 A @ 200V~

Rated Current GX-XVI: 8.24A @ 100V~, 4.12 A @ 200V~

GENEXPERT® SYSTEMS*	PART NUMBERS [^]
GeneXpert Model GX-II 2 module instrument with laptop	GXII-2-L
GeneXpert Model GX-II 2 module instrument with desktop computer	GXII-2-D
GeneXpert Model GX-IV 4 module instrument with laptop	GXIV-4-L
GeneXpert Model GX-IV 4 module instrument with desktop computer	GXIV-4-D
GeneXpert Model GX-XVI 16 module instrument with laptop	GXXVI-16-L
GeneXpert Model GX-XVI 16 module instrument with desktop computer	GXXVI-16-D

- * All systems include a barcode scanner
- ^ For a full listing of the instrument configurations available to meet your needs visit www.cepheidinternational.com

CORPORATE HEADQUARTERS

904 Caribbean Drive Sunnyvale, CA 94089 USA

TOLL FREE +1.888.336.2743
PHONE +1.408.541.4191
FAX +1.408.541.4192

EUROPEAN HEADQUARTERS

Vira Solelh 81470 Maurens-Scopont, France

PHONE +33.563.82.53.00 FAX +33.563.82.53.01 EMAIL cepheid@cepheideurope.fr www.Cepheidinternational.com