The New GeneXpert® System
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 one, 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: CEPHEID GENEXPERT SYSTEM
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 prep! 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.
GAME CHANGER: CEPHEID GENEXPERT SYSTEM
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, we now have molecular diagnostic “centers of excellence” in some of 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.
Processing Unit

A four-site GeneXpert System can be configured with 1, 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
GAME CHANGER: CEPHEID GENEXPERT SYSTEM
The simplicity of the GeneXpert® System is often compared to a chemistry or hematology analyzer. Simply load the cartridge and the system does the rest.

The unparalleled efficiency and ease-of-use will add unseen value to your entire institution. However, the “ripple effect” of rapid, real-time, random access results goes well beyond the four walls of the laboratory — everyone in your facility benefits from getting the right result at the right time, including your patients.

And all of Cepheid’s GeneXpert Systems offer complete interfacing compatibility with your data management system, enabling your clinical staff to take full advantage of the speed and accuracy of molecular diagnostics.

Finally, the entire GeneXpert family is designed with LEAN principles in mind, in order to eliminate wasted time, effort, and resources at every opportunity. The systems can easily integrate into any lab to improve workload and workflow optimization.
Specifications

OPTICS
Dye detection limit < 1 nM

OPTICAL CHANNEL CHARACTERIZATION

<table>
<thead>
<tr>
<th>Channel</th>
<th>Excitation</th>
<th>Emission</th>
<th>Calibrated Reporter Dyes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>375–405</td>
<td>420–480</td>
<td>CF 1</td>
</tr>
<tr>
<td>2</td>
<td>450–495</td>
<td>510–535</td>
<td>FAM</td>
</tr>
<tr>
<td>3</td>
<td>500–550</td>
<td>565–590</td>
<td>Alexa Fluor® 532</td>
</tr>
<tr>
<td>4</td>
<td>555–590</td>
<td>606–650</td>
<td>Texas Red®</td>
</tr>
<tr>
<td>5</td>
<td>630–650</td>
<td>665–685</td>
<td>Alexa Fluor® 647</td>
</tr>
<tr>
<td>6</td>
<td>630–650</td>
<td>&gt;700</td>
<td>CF 6</td>
</tr>
</tbody>
</table>

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-I Processing Unit: 4.00" w x 12.00" h x 11.70" d
GX-II Processing Unit: 6.35" w x 12.00" h x 11.70" d
GX-IV Processing Unit: 11.00" w x 12.00" h x 11.70" d
GX-XVI Processing Unit: 22.75" w x 25.80" h x 13.25" d

POWER REQUIREMENTS
Rated Voltage: 100-240 V~, 50-60 Hz
Rated Current GX-I: 1.5A @ 100V~, 0.75 A @ 200V~
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® DIAGNOSTIC SYSTEM U.S. PART NUMBERS*

GeneXpert Model GX-I   GXI-1-L
GeneXpert Model GX-II   GXII-2-L
GeneXpert Model GX-IV   GXIV-4-D
GeneXpert Model GX-XVI  GXXVI-16-D

*For a full listing of the instrument configurations available to meet your needs visit www.cepheid.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 Soleil
81470 Maurens-Scopont France
PHONE: 33.563.82.53.00
FAX: 33.563.82.53.01

The purchase of this product allows the purchaser to use it with Cepheid GeneXpert assay cartridges and Cepheid GeneXpert® assay software. No general patent or other license of any kind other than this specific right of use from purchase is granted hereby. No other rights are conveyed expressly, by implication or estoppel. Furthermore, no rights for resale are conferred with the purchase of this product.