

GEM[®] family

The Most Advanced
Critical Care Solutions.
Anywhere, Everywhere.



The GEM Family—comprehensive critical care solutions in the lab and at the point-of-care.

The GEM Family of critical care testing solutions brings you more capabilities, more automation, and more flexibility to deliver the very best patient care. All GEM Family products combine accuracy and intelligence with simplicity and flexibility, for the most advanced critical care testing solutions.

A complete, integrated solution for a single hospital or a network of hospitals.

GEM Premier™ Analyzers

These revolutionary analyzers measure pH, blood gases, electrolytes, metabolites, CO-Oximetry and more, and all feature integrated Intelligent Quality Management (iQM®), for improved patient care, ultimate simplicity and maximum efficiency.

- ▶ GEM Premier 4000
- ▶ GEM Premier 3500
- ▶ GEM Premier 3000

GEMweb® Information Management Systems

Designed specifically for GEM Premier instruments, this software allows remote control of any analyzer for total connectivity, regardless of location.

- ▶ GEMweb Plus
- ▶ GEMweb

GEM Portable Testing Systems

Whether complementing a GEM Premier system or used independently, these portable instruments give you more flexibility with the accuracy you expect.

- ▶ GEM PCL™ Plus coagulation analyzer
- ▶ GEM OPL™ CO-Oximeter



- ▶ **GEM Premier 4000**, the most advanced analyzer in IL's GEM Family, brings true automation to critical care testing.



► Bring lab-quality results to the point-of-care.

GEM[®] PREMIER 4000 with iQM[®]

So advanced, it's simple. So simple, it's revolutionary.

The revolutionary GEM Premier 4000 is the most comprehensive critical care analyzer today. With its unique cartridge PAK, iQM, full analyte menu including onboard CO-Oximetry, and integrated GEMweb Plus software, this instrument brings true automation to critical care testing. The top choice of hospitals and laboratories worldwide, the GEM Premier 4000 is simple, flexible and is revolutionizing critical care testing.

- **Simple to use:** Basic operation learned in minutes, assures universal staff training, consistent test results and easy customization
- **Ultimate flexibility:** A broad range of measured analytes and onboard CO-Oximetry provide a complete clinical assessment from a single sample
- **Automated maintenance:** The only single-component, multi-use cartridge PAK on the market incorporates all testing components, is self-contained and non-refrigerated
- **Automated quality assurance:** iQM provides active, continuous, real-time quality processing—with no operator intervention—for the most accurate results, every time
- **Automated information management:** GEMweb Plus, integrated information software, provides managers remote access to all networked analyzers for full control of all patient results and data, regardless of location

Customizable cartridge configurations available in 75 - 600 test options and three analyte menus for ultimate flexibility and cost-efficiency.

Cartridge Configuration Menu

BG,[†] Hct, CO-Ox^{††}

BG, Lytes,^{*} Hct, CO-Ox

BG, Lytes, Glu, Lac, Hct, CO-Ox, BUN,^{**} Creat,^{**} Total Bili, HCO₃^{-**}

[†] BG = pH, pCO₂, pO₂

^{††} CO-Ox = tHb, O₂Hb, COHb, HHb, MetHb, sO₂

^{*} Lytes = Na⁺, K⁺, Ca⁺⁺

^{**} In development

- **PAKs** contain all components for patient testing, are replaced every 30 days and are ideal for high- and low-volume testing.

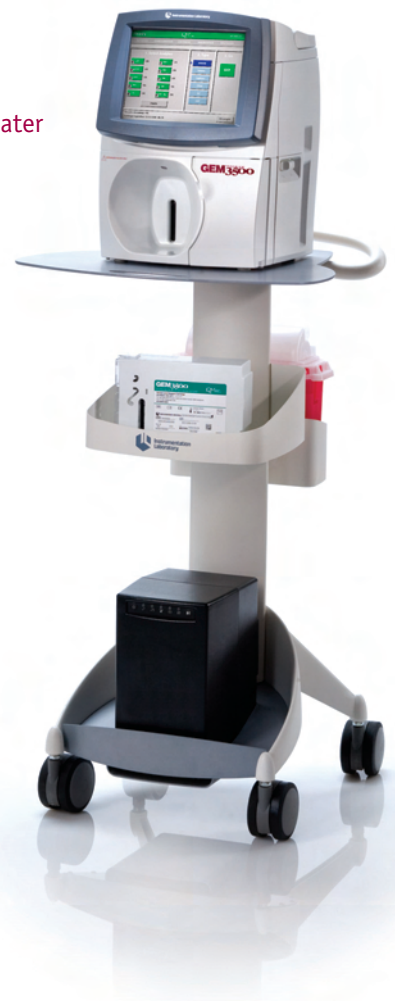


GEM[®] Premier[™] 3500 with IQM[®]

Test assured in critical care diagnostics.

The GEM Premier 3500 offers unprecedented testing simplicity, flexibility and reliability, in a system fully adaptable to the needs—and volume—of any point-of-care testing location or laboratory. Its cartridge PAK and touchscreen make it remarkably simple and maintenance-free. The GEM Premier 3500 features state-of-the-art instrument design with a large sampling area, barcode scanner and a comprehensive test menu with multiple cartridge configurations—for faster, easier, more efficient critical care testing.

- ▶ **GEM Premier 3500**, enhanced simplicity and flexibility for greater cost-efficiency.



GEM[®] Premier[™] 3000 with IQM[®]

Simplifying critical care testing to deliver fast, reliable results.

The GEM Premier 3000 is an easy-to-use whole blood analyzer that provides lab-quality results in any location throughout the hospital. With the easy operation, flexible test menu and quality test results you expect from all GEM Premier instruments, the GEM Premier 3000 is a standard for quality care, delivering superior performance and value to your point-of-care testing location and laboratory.

- ▶ **The GEM Premier 3000**, easy, reliable critical care testing, throughout the hospital.



Customizable cartridge configurations available for GEM Premier 3500 and GEM Premier 3000 analyzers in 75 - 600 test options¹ and three analyte menus.

Cartridge Configuration Menu

BG,† Hct

BG, Lytes,* Hct

BG, Lytes, Glu, Lac, Hct

¹ Additionally, a 35-test option is offered for the BG, Hct configuration

† BG = pH, pCO₂, pO₂

* Lytes = Na⁺, K⁺, Ca⁺⁺

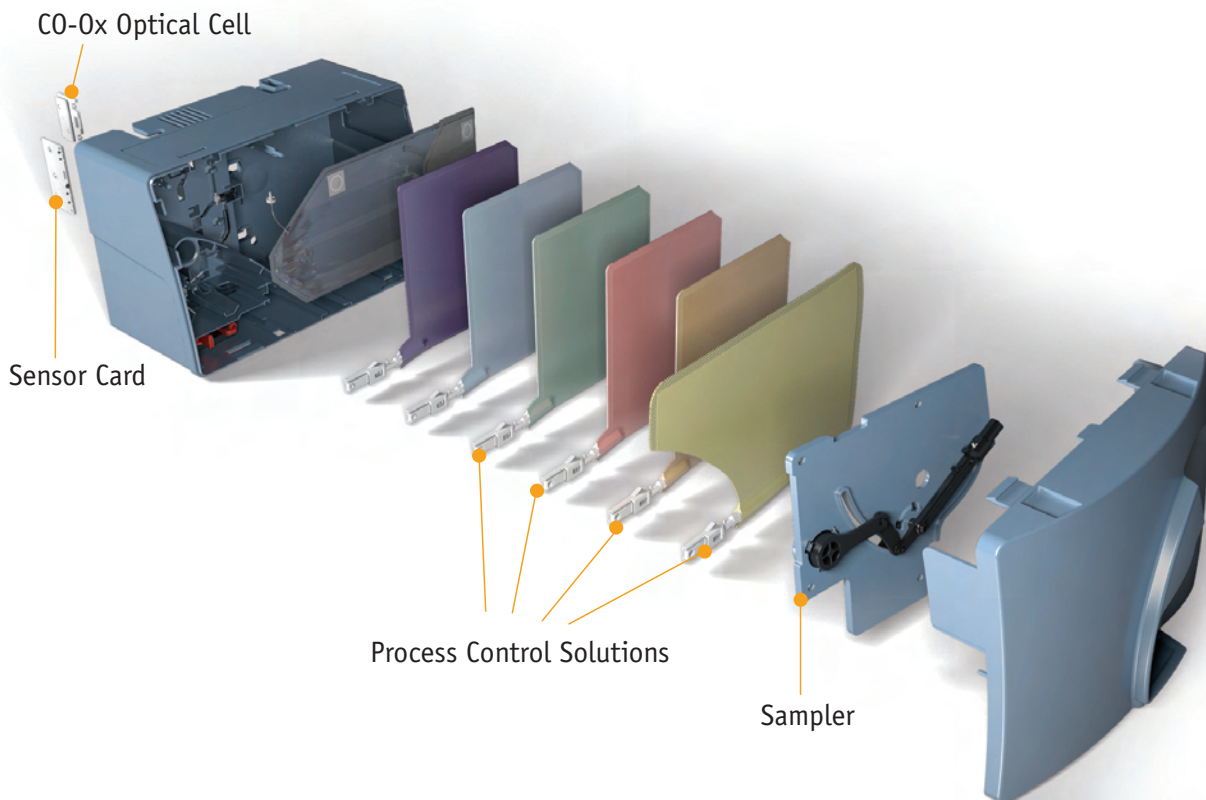


Unmatched quality assurance for the most accurate results, every time.

Patented *Intelligent Quality Management* is integrated on all GEM Premier instruments, providing active, continuous, real-time quality processing throughout the critical care testing process, with no maintenance required. iQM ensures optimal results for enhanced patient care.

- ▶ **Improved patient care:** Reduces error detection time from hours to minutes, when compared to traditional QC methods,* ensuring optimal test results
- ▶ **Ultimate simplicity:** iQM and all analytical components are included inside a single, self-contained cartridge PAK
- ▶ **Maximum efficiency and ease of use:** Errors are detected, corrected, and documented with ZERO operator intervention

* Auto and manual QC



- ▶ **iQM** and all analytical components are included inside a single, self-contained cartridge PAK in all GEM Premier instruments. The GEM Premier 4000 PAK is shown here.

GEMweb[®] Plus

Advanced information management for complete control throughout the hospital.

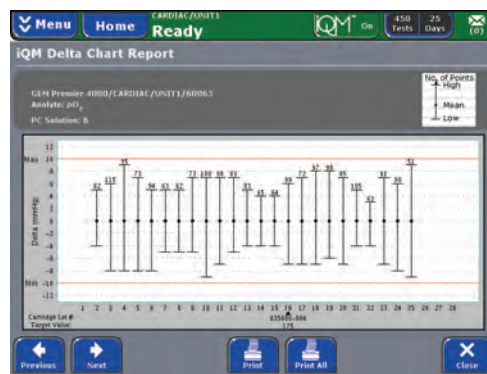
GEMweb Plus, IL's unique information management software system, provides remote control of all aspects of instrument configuration, from any networked GEM Premier 4000 analyzer or PC, for total connectivity from any location—in the ICU, a satellite facility, office or home.

GEMweb Plus provides:

- ▶ A uniform testing environment that simplifies training and reduces risk of errors
- ▶ Remote viewing of patient results
- ▶ Complete control of all networked analyzers, assuring testing quality and regulatory and training compliance
- ▶ Enhanced view of entire patient history on all networked analyzers, regardless of location
- ▶ Automatic documentation of analyzer activities and operator actions
- ▶ Remote analyzer configuration
- ▶ Automated operator certification management
- ▶ Admission Discharge Transfer (ADT)
- ▶ Point-of-care order creation



- ▶ Quickly review the status of all analyzers from a PC or any networked analyzer.



- ▶ Access comprehensive QA reports, including iQM Delta Charts.

GEM® PCL Plus

Portable Coagulation Laboratory.

IL's highly portable whole blood coagulation system provides fast, quality results for PT, APTT, ACT-LR, ACT and Citrate PT tests. Easy to use and maintenance-free, it is ideal for critical care testing. Together with the GEM Premier 4000, GEM Premier 3500 or GEM Premier 3000 analyzers, it provides a comprehensive critical care testing solution.



- ▶ **GEM PCL Plus**, fast and accurate coagulation results—anywhere.

GEM® OPL™

The ideal, portable solution for CO-Oximetry.

This simple-to-use, compact CO-Oximeter provides comprehensive oxygenation status and fast, reliable results when and wherever needed. A complement to the GEM Premier 3500 and GEM Premier 3000, the GEM OPL is the solution for complete critical care testing.



- ▶ **GEM OPL CO-Oximeter**, reliable testing at the point-of-care.

Instrumentation Laboratory Our Passion. Your Results.

Driven by our constant passion for innovation, IL has provided the most comprehensive and valuable diagnostic solutions for decades. From the launch of our first instrument, our integrated solutions continue to revolutionize critical care testing with more capabilities, more end-to-end automation and more flexibility.

The GEM Family simplifies and automates testing from the lab to the point-of-care. Every GEM Family system promises the most advanced technology, the simplest operation and the most flexibility to provide fast, accurate, high-quality results for the very best patient care.

The GEM Family of Critical Care Testing Solutions

GEM Premier Analyzers	GEMweb Information Management Systems	GEM Portable Testing Systems
<ul style="list-style-type: none"> ▶ GEM Premier 4000 ▶ GEM Premier 3500 ▶ GEM Premier 3000 	<ul style="list-style-type: none"> ▶ GEMweb Plus ▶ GEMweb 	<ul style="list-style-type: none"> ▶ GEM PCL Plus ▶ GEM OPL

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