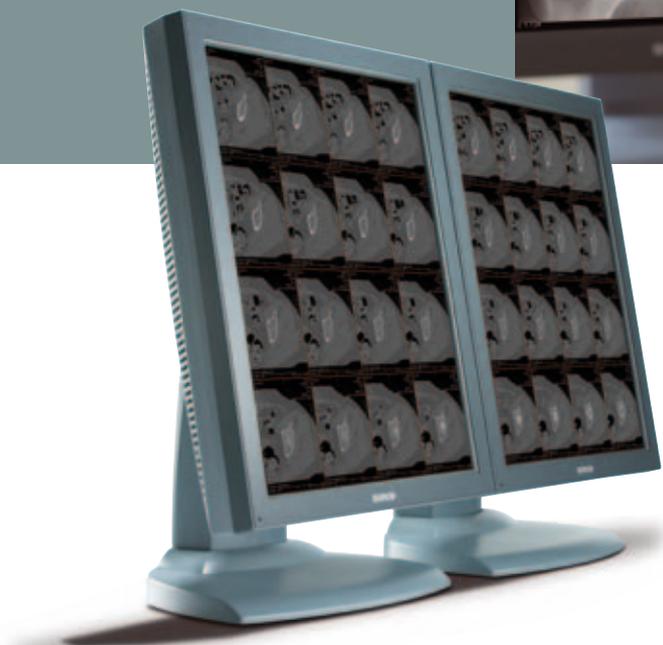
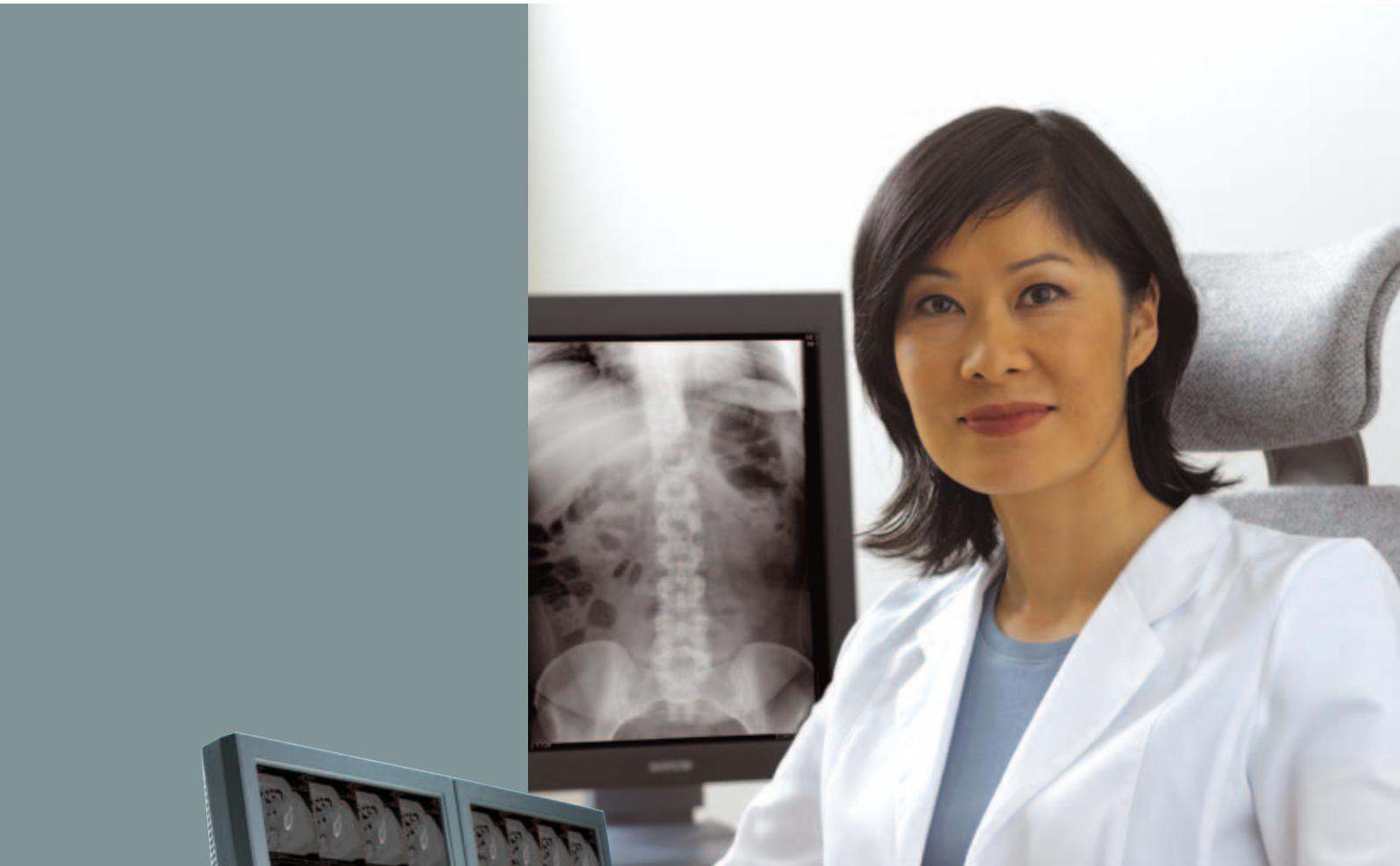
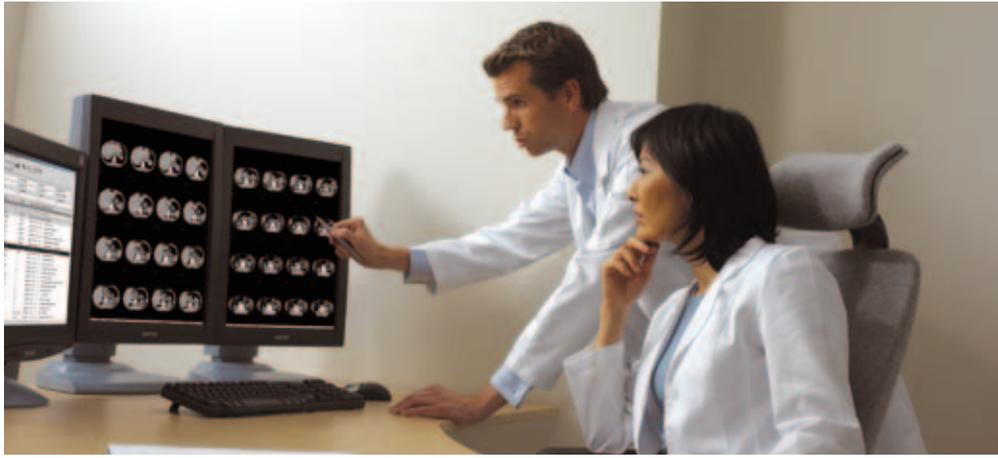


**Nio**

Industry-standard diagnostic display systems



# Diagnostic confidence in grayscale



With the Nio diagnostic display system, Barco brings dependable diagnostic imaging to its true potential. Presenting a unique combination of performance and dependability, Nio defines today's industry standard for diagnostic imaging. Nio's proven technology brings high-grade diagnostic confidence in applications such as X-ray, PACS, MRI, angiography, computed tomography and mammography (SMP only).



## ... or color



In response to the rapid emergence of color applications, the Nio family also presents dedicated color display systems that deliver diagnostic confidence in high bright color. These Nio Color systems provide an effective display solution for cutting-edge color modalities, including 3D PACS, 3D echo, ultrasound, CAD, image fusion, nuclear medicine and PET.

### Nio at a glance

#### Features

- Dependable, proven technology
- Complete product line
- Perfect color matching between displays
- Individual auto-calibration to DICOM
- High-speed image rendering
- Uniformity correction
- 5-year warranty

#### Benefits

- > Long-term confidence at an exceptional value
- > Optimized solutions for various modalities
- > Identical image quality on every screen
- > Worry-free deployment
- > Maximum productivity
- > Compliance to regional QA standards
- > Worry-free diagnostics for many years

# Dependability at an exceptional value

## High-quality imaging

Whether you choose for the 2MP, 3MP or 5MP grayscale version or the 3MP color configuration, all Nio display systems will bring high brightness, exceptional crispness and an excellent viewing angle to your readings. This makes Nio the ideal solution for a multitude of color and grayscale applications. The energy-efficient Nio display systems come in an attractive design in single-head or matched dual-head configurations. All Nio systems have a solid and handy tilt and swivel base and can be used in portrait or landscape viewing mode.

## Long-term image confidence

Thanks to its high luminance and Backlight Output Stabilization (BLOS) technology, Nio is the ideal solution for a wide range of medical imaging applications. BLOS guarantees fast power-up and continuously stabilizes the luminance output of the LCD's backlight. This significantly improves the overall optical efficiency of your Nio display system and provides long-term image stability.

## Perfect color matching

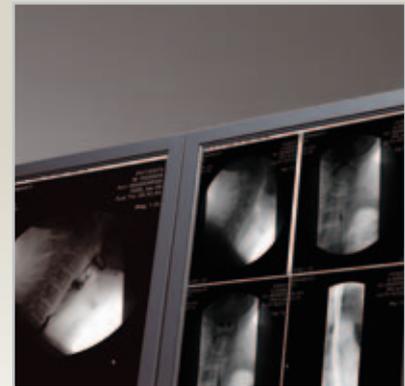
Every multi-head Nio display system is carefully color matched to guarantee that the color characteristics of all displays in the system are consistent. This allows you to perform your work without the distraction of color differences inherent in LCD panels.



*Ergonomic viewing thanks to handy tilt and swivel base*



*BLOS technology for stabilized luminance output*



*Perfect color matching for consistent diagnostic quality on every screen*



# High performance for high expectations

## High-speed image download



Nio grayscale display systems are driven by high-speed BarcoMed display controllers featuring Barco AURA technology. With PCI or PCI Express performance and image download speeds up to 700 MB per second, the BarcoMed boards are the fastest display controller in their league. They are compatible with Windows 2000 Professional, Windows XP Professional, Windows Server 2003 and Windows Vista XPDM.

## High-performance 3D support



To support the latest 3D CT, MR and PET applications, Nio display systems can also be combined with Barco's line of high-performance MXRT display controllers. These PCI Express controllers deliver impressive image download speeds and optimized 3D PACS operations through OpenGL and Microsoft DirectX, both on Nio grayscale and color displays.

## Protective front cover



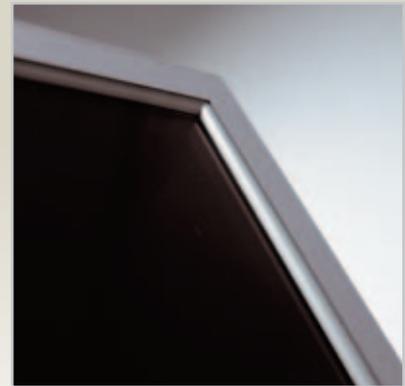
Nio display systems are equipped with a protective front cover, which protects your valuable LCD against damage from intensive use in clinical rooms. The cover also allows for easy and safe cleaning. Its non-reflective coating will improve image contrast while keeping reflections very low.



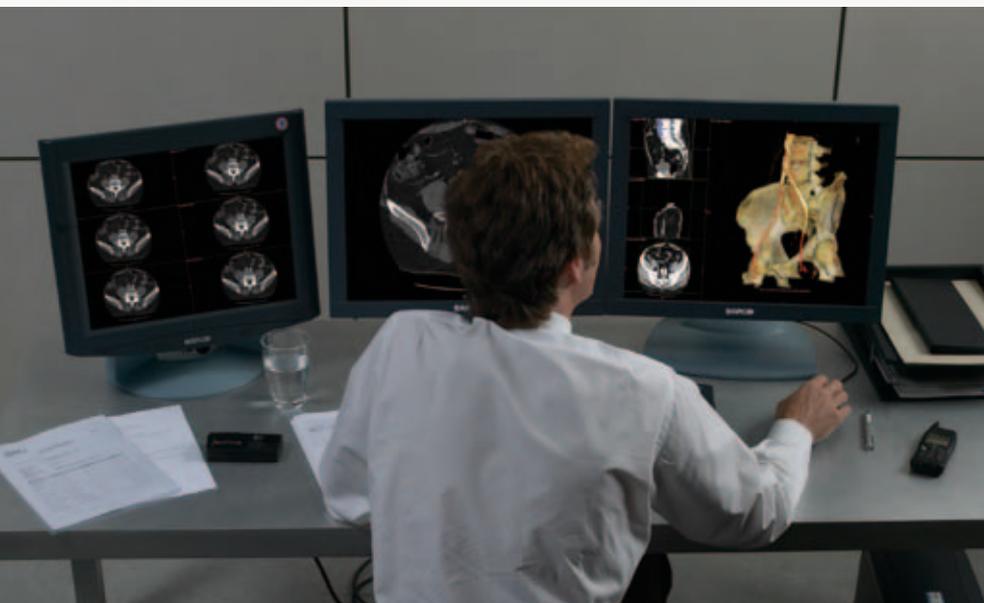
*Fast loading with high-speed BarcoMed display controllers*



*Optimized 3D operations through OpenGL and Microsoft DirectX*



*Improved diagnostic quality with non-reflective protective front cover*



# Fully transparent calibration and QA



Nio's innovative softcopy QA system brings a new degree of transparency to your QA routine. MediCal QAWeb is the industry's first and most complete secured online service offering, guaranteeing maximum diagnostic confidence and uptime of your PACS display systems by providing automated DICOM calibration, Quality Assurance, display asset management, problem solving and reporting.

## Consistent QA management

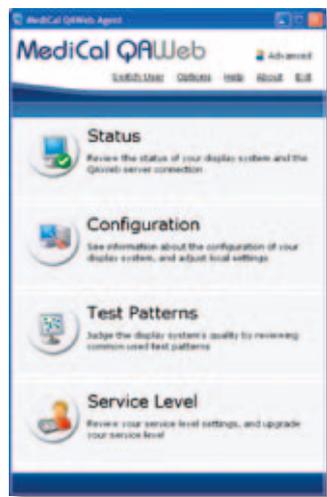
MediCal QAWeb auto-detects and auto-calibrates all displays according to the predefined ambient light settings. This ensures effortless diagnostic confidence for radiologists, without interruption of their workflow.

## Compliance with the latest QA standards

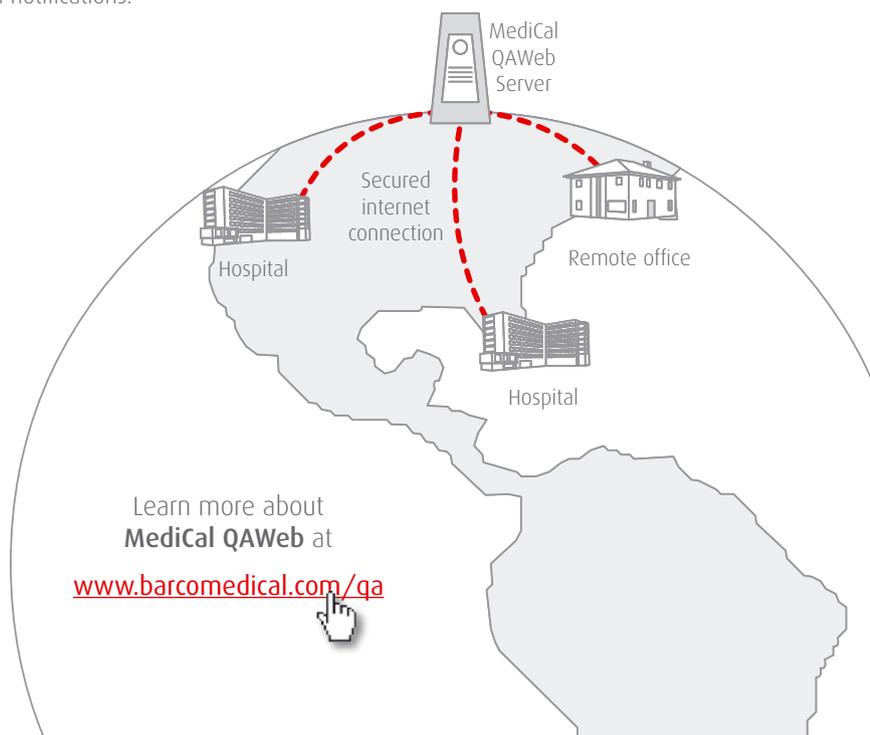
MediCal QAWeb monitors all display systems to ensure continuous compliance with DIN 6868-57, AAPM TG18, JESRA and other regional QA guidelines. If desired, all displays can also be individually DICOM GSDF calibrated in function of the ambient light presets from any remote location.

## Effortless asset management

With MediCal QAWeb centralized asset management becomes truly effortless. The system provides a comprehensive overview of all workstations connected to the system and notifies the right person if an asset has been removed. Moreover, it allows you to easily change QA policies (e.g. white luminance) for a group of displays in a specific department from any computer by means of the user-friendly web interface. When opting for the 'Premium' level, remote capabilities further include full remote calibration and QA (e.g. remote display test) and extended notifications.



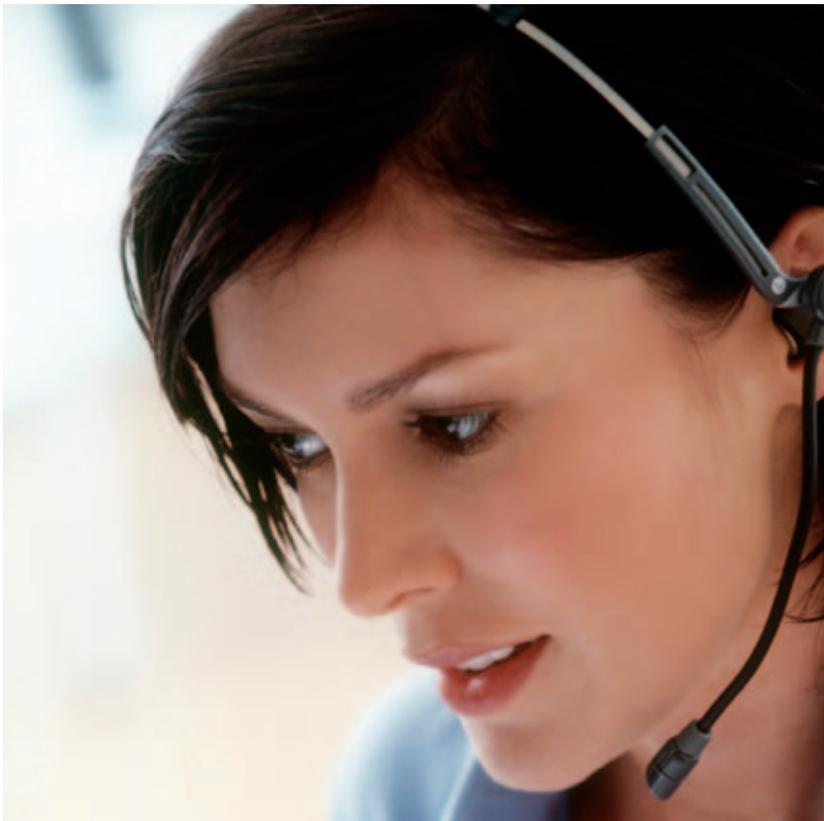
Transparent Quality Assurance with MediCal QAWeb



# Complete peace of mind



Built to deliver maximum peace of mind, Nio display systems come with a 5-year warranty. In addition, Barco offers an array of dedicated support services to help you reduce unscheduled downtime and keep your expenses under control. Barco's global organization is your guarantee for professional support, wherever you are, whenever you need it.



# Barco medical imaging

Barco, a global market leader in visualization solutions for Picture Archiving and Communication Systems, has been developing visionary medical imaging solutions for almost twenty years. Driven by experience and innovation, Barco presents a full range of state-of-the-art solutions for radiological, surgical and clinical imaging. From acquisition to display, from image processing to quality assurance, Barco's hardware and software solutions deliver the perfection patients deserve.

Barco's commitment to quality has earned the trust of customers from all over the world, who partner with Barco to meet their most demanding imaging challenges. This partnership approach is also reflected in Barco's worldwide customer service network, ensuring professional support, wherever you are, whenever you need it.



## Request more information

Europe, Middle East, Africa  
& Latin America  
Phone: +32 56 233 557  
[sales.medical.eu@barco.com](mailto:sales.medical.eu@barco.com)

North America  
Phone: +1 866 302 7939  
[sales.medical.us@barco.com](mailto:sales.medical.us@barco.com)

Taiwan  
Phone: +886 2 8221 6868  
[sales.medical.apac@barco.com](mailto:sales.medical.apac@barco.com)

South Korea  
Phone: +82 2 2175 8900  
[sales.medical.apac@barco.com](mailto:sales.medical.apac@barco.com)

China  
Phone: +86 21 6091 2222  
[sales.medical.apac@barco.com](mailto:sales.medical.apac@barco.com)

India  
Phone: +91 120 4020000  
[sales.medical.apac@barco.com](mailto:sales.medical.apac@barco.com)

Singapore  
Phone: +65 6243 7610  
[sales.medical.apac@barco.com](mailto:sales.medical.apac@barco.com)

Australia  
Phone: +61 3 9646 5833  
[sales.medical.apac@barco.com](mailto:sales.medical.apac@barco.com)

Japan  
Phone: +81 3 3279 0771



In search of continuous improvement

K5906095 Rev. 03 0209 © 2009 Barco  
Technical specifications are subject to change without prior notice

[www.barcomedical.com](http://www.barcomedical.com)

