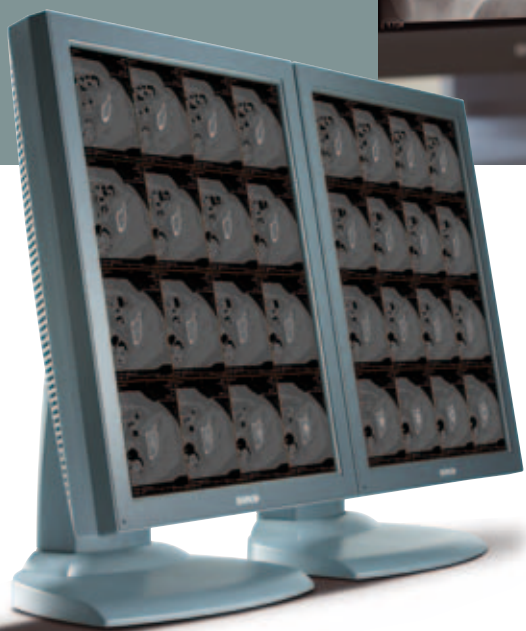# Nio

Industry-standard diagnostic display systems
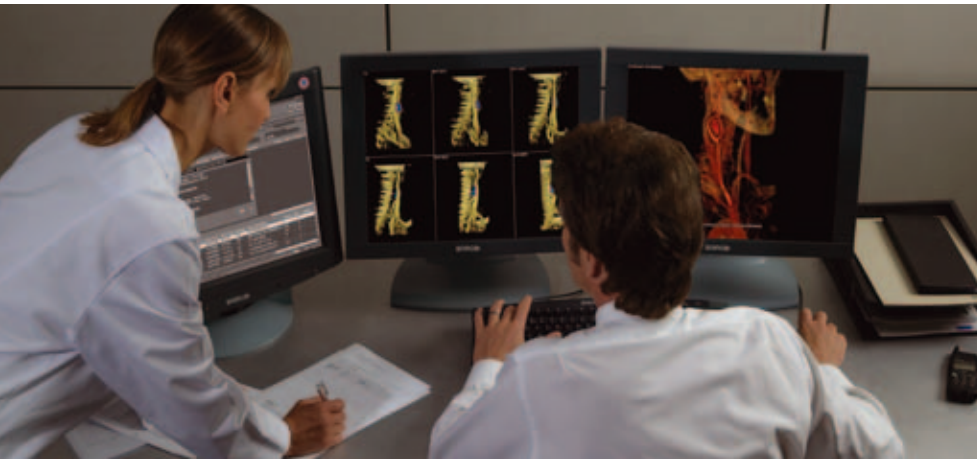

BARCO

Visibly yours

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 (5MP 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 full 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	Benefits
• Dependable, proven technology	> Long-term confidence at an exceptional value
• Complete product line	> Optimized solutions for various modalities
• Perfect color matching between displays	> Identical image quality on every screen
• Individual auto-calibration to DICOM	> Worry-free deployment
• High-speed image rendering	> Maximum productivity
• 5-year warranty	> 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.
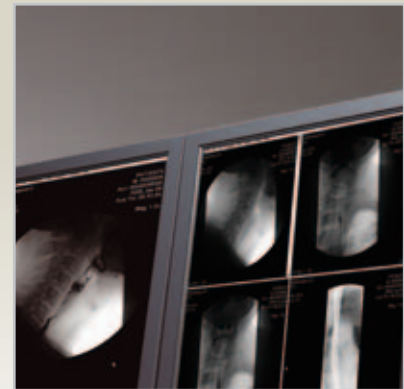
Perfect color matching

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

10 BIT

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.
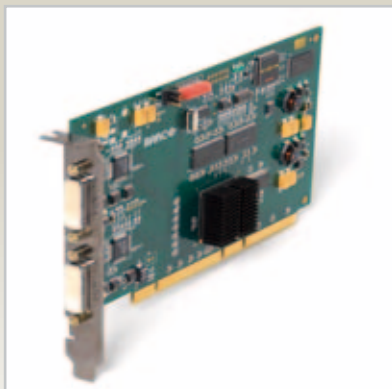
High-performance 3D support

30 BIT

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

7 GLASS

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.
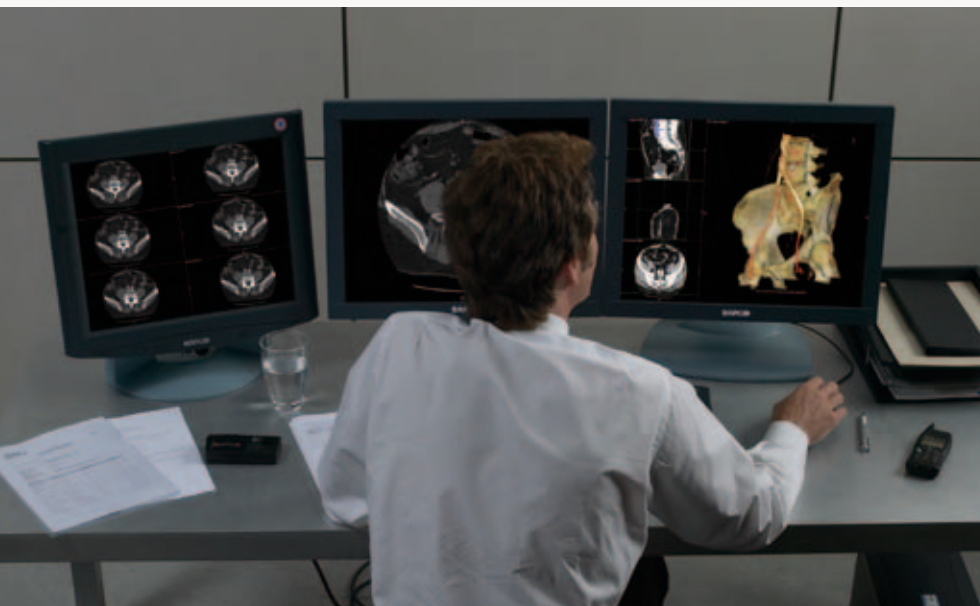

Fast loading with high-speed BarcoMed display controllers

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.
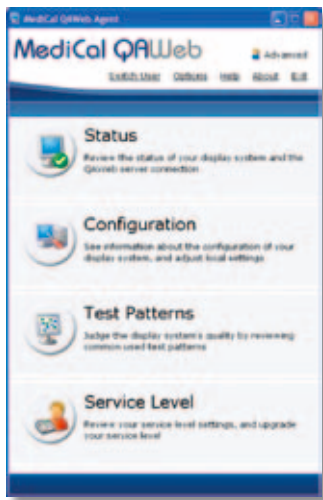
Consistent QA management

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.

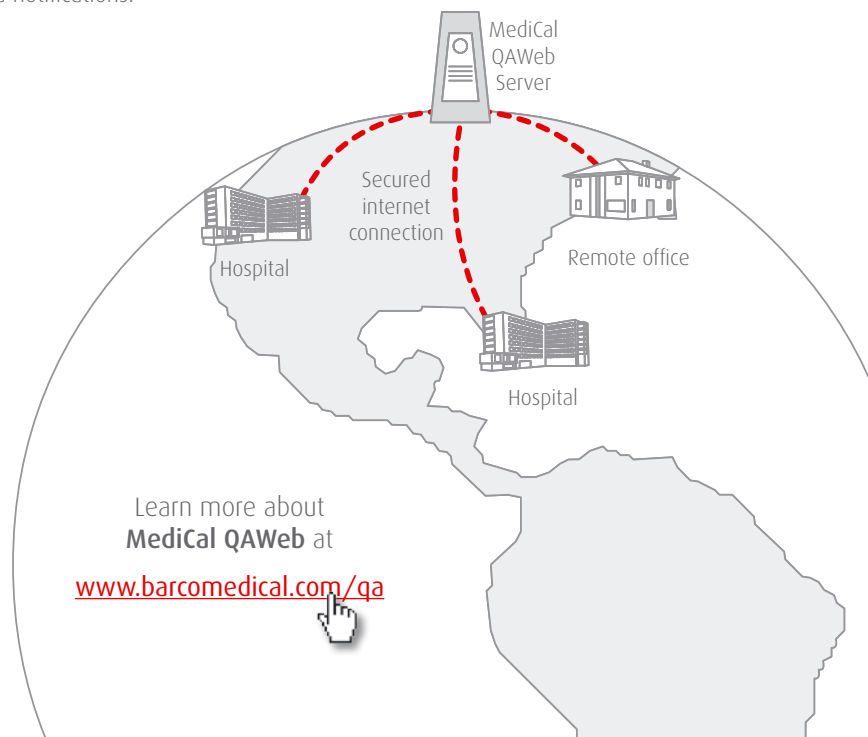## Compliance with the latest QA standards

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.
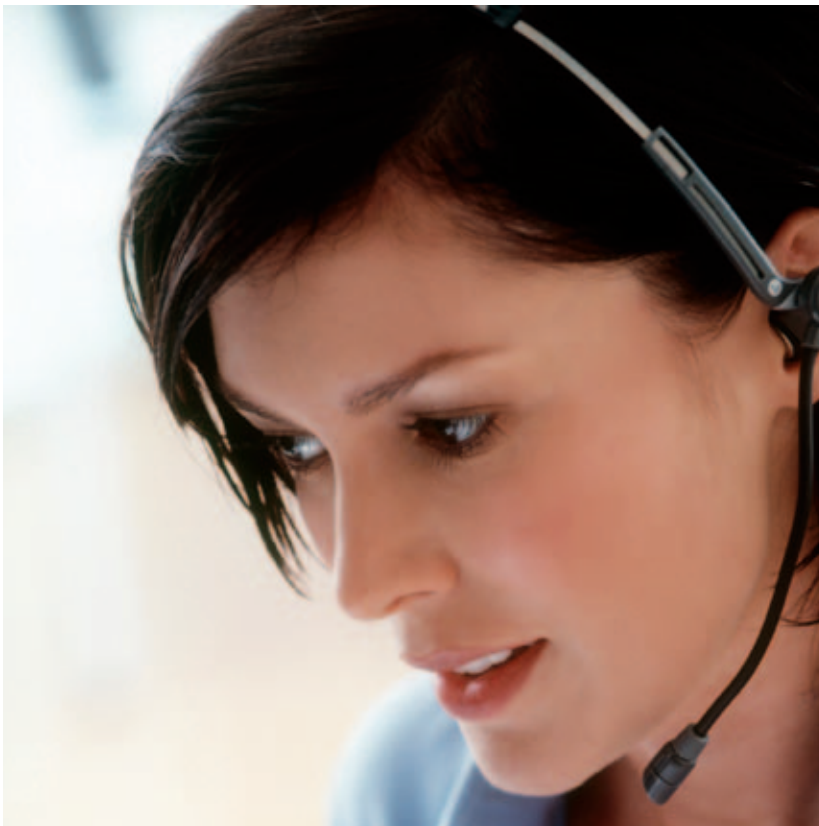

Transparent Quality Assurance with MediCal QAWeb

MediCal QAWeb Server

Secured internet connection

Hospital

Remote office

Hospital

Learn more about
MediCal QAWeb at

www.barcomedical.com/qa

Complete peace of mind

5Y WARRANTY 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.

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