

Nio Fusion 4MP

Large-screen medical color display system



BARCO

Visibly yours

Truly seamless side-by-side viewing

Nio Fusion 4MP is an innovative large-screen medical color display system specifically designed to bring enhanced flexibility to the medical imaging workflow. The system's 30-inch screen surface gives you the space you need to review medical images in full size without compromising on quality.

No more distracting bezels. No more color-matching issues. Nio Fusion 4MP seamlessly fuses two portrait 2MP displays into one integrated desktop, opening a new array of possibilities. Now you can display more CT slices on a single screen or look at more color and grayscale images at the same time. What's more, you no longer need to choose between a portrait or a landscape setup, as the large screen area allows you a high degree of desktop flexibility.

Welcome to the world of seamless side-by-side viewing.

Nio Fusion 4MP benefits:

- 30-inch large screen viewing in 2560 x 1600 resolution
- Truly seamless side-by-side mode without distracting bezels
- Ultimate desktop flexibility
- Fast and smooth image processing
- No color matching complexity
- DICOM out of the box
- Protective front cover



Application areas

PACS throughout the hospital

Nio Fusion 4MP is the ideal display solution for consulting HIS, RIS, color and grayscale PACS images throughout the hospital with the convenience of a large, high-resolution desktop.



Operating room

The space saving form factor of Nio Fusion 4MP makes it the ideal display for PACS imaging in the OR. Nio Fusion 4MP is easy to install on a wall or mobile cart. What's more, Nio Fusion 4MP is the most versatile OR viewing station for the display of a wide variety of patient data coming from a number of modalities that are on the hospital's PACS network.

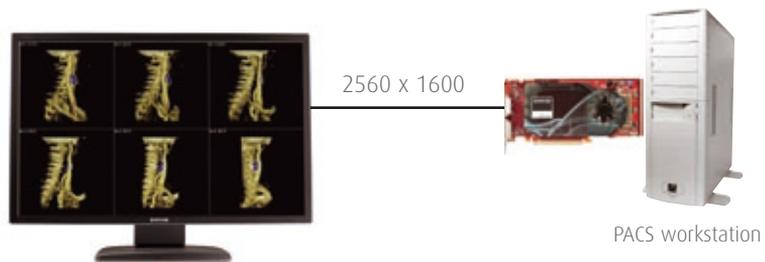


Multiple viewing setups

Featuring multiple viewing setups, Nio Fusion 4MP brings a new degree of flexibility to your imaging workstation. Easily integrated into your PACS, Nio Fusion 4MP allows you to choose between two viewing modes:

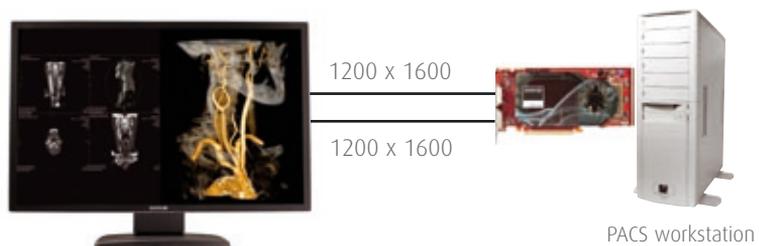
Single View mode:

In this mode you can drive the display as a single 4 MegaPixel (2560 x 1600) desktop.



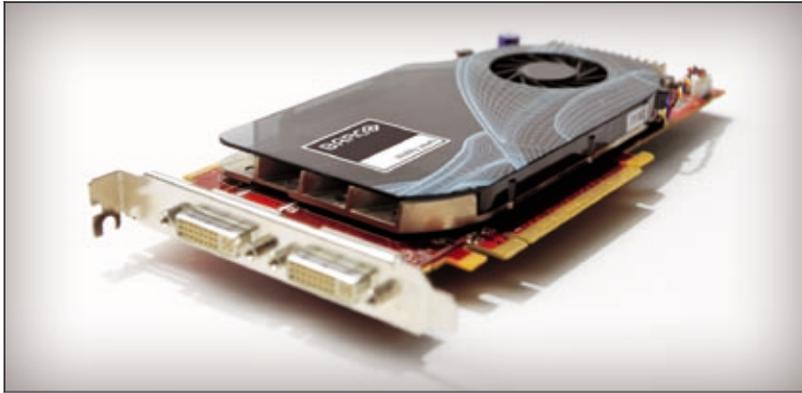
Seamless DuoView mode:

Driving the display via two DVI inputs, the DuoView mode offers a seamless, color-matched dual-head configuration with a resolution of 2 x 2 MegaPixel (2 x 1200 x 1600). Fully compatible with legacy PACS systems, bezel-free viewing can now be enjoyed without any additional changes to your PACS configuration.



High-speed image rendering in 2D and 3D

Nio Fusion 4MP is powered by a new generation MXRT-5200 display controller that delivers the performance, quality, and stability required for today's medical diagnostic 2D and mid-range 3D imaging applications. The powerful GPU, based on a PCIe x16 architecture, ensures ultra-fast and smooth image loading, roaming and manipulation.

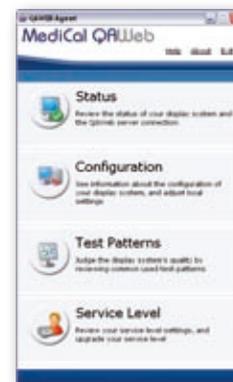


Long-term image confidence

To ensure long-term image confidence, Nio Fusion 4MP features Backlight Output Stabilization (BLOS). Barco's BLOS technology guarantees fast power-up and continuously stabilizes the luminance output of the system's backlight. This significantly improves the overall consistency of the display system.

DICOM-compliant out of the box

Nio Fusion 4MP is DICOM-compliant out of the box, which makes it a true Plug and Play solution. For local fine-tuning, the system offers MediCal QAWeb, a user-friendly softcopy QA tool, allowing users to optimize their display system in accordance with DICOM part 14 in a few easy steps. Because of this, Nio Fusion 4MP delivers accurate image representations you can trust at all times. Nio Fusion 4MP can also be calibrated in combination with an optional external sensor.



Protective front cover

To protect its valuable LCD technology against damage from intensive use in clinical environments, Nio Fusion 4MP comes with a protective front cover. Its non-reflective coating will improve the diagnostic experience, while keeping reflections very low.

Specifications Nio Fusion 4MP display

Display	MDNC-4130
Display technology:	TFT AM LCD Dual Domain IPS Technology
Active screen diagonal:	30 inch (756,2 mm)
Active screen width:	25.25 inch (641,3 mm)
Active screen height:	15.78 inch (400,8 mm)
Pixel pitch:	0,2505 mm (0.00986 inch)
Resolution:	2560 x 1600
DICOM calibrated luminance (native white):	200 cd/m ² (58.4 fL)
Maximum luminance (typical):	370 cd/m ² (107.9 fL)
Contrast ratio (dark reading room, typical):	600:1
Viewing angle (Horizontal/Vertical):	170°
Display LUT:	30 bit color
Video input:	2 x DVI
Image stabilization:	Backlight Sensor BLOS
DuoView mode:	Drives LCD in 2 x (1280 x 1600) or 2 x (1200 x 1600) resolution
Display dimensions landscape (W x H x D) (pedestal in max. position):	697 x 650 x 285 mm (27.44 x 25.59 x 11.22 inch)
Display weight:	25 kg (55.1 lbs)
Approvals:	EN60601-1-2, FCC-B, CE,CCC, ICES-001, KETI, PSE
Operational temperature range:	0° C to + 40° C (32° to 104°F)
Within spec temperature range:	+15° C to +35° C (59° to 95°F)
Power consumption (typical):	150 W

Specifications Nio Fusion 4MP display controller

Display controller	MXRT-5200
System requirements	
Bus compatibility:	PCIe x16
Power consumption:	Computer power supply of 375W or higher recommended. (assumes a fully loaded system)
Form factor:	98,4 x 228,6 x 15,9 mm (3.87" x 9.0" x 0.63")
Operating system:	MS Windows® XP 32/64-bit, Server 2003, 2008, Vista XPDM, WDDM
Platforms:	Intel® and AMD architectures
Characteristics	
Graphics accelerator:	ATI FireGL™
Display memory:	512 MB GDDR4
Look-Up Table:	24 bit in / 24 bit out
Pixel depth:	24 bit / 30 bit (HDR mode)
Electrical standard:	Dual Link DVI complying to v1.0 specification
Direct 3D HW support:	Microsoft® DirectX v10.0/v9.0, Vertex Shader v4.0/v3.0, Pixel Shader v4.0/v3.0
OpenGL HW support:	OpenGL 2.1
Video output connectors:	2x DVI-I
Supported resolutions:	Up to 3280 x 2048 / VGA at Boot up
Approvals and compliance:	FCC part 15 Class B, CE, UL-60950-1, MSI CNS, CISPR-22/24, VCCI, CSA C22.2, EU RoHS, MIC
Temperature (operational):	0° to 55°C (32° to 131° F)

Barco medical imaging systems

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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