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Barco Healthcare
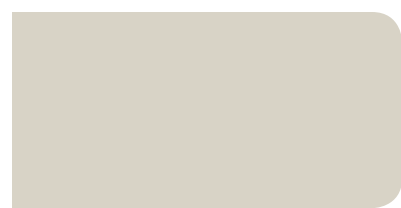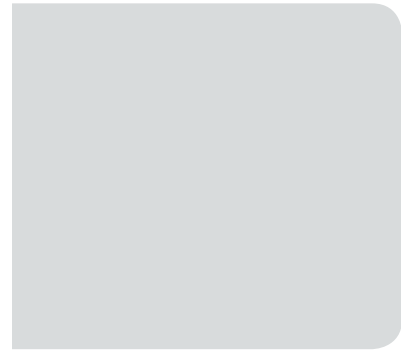## Product catalog

BARCO

Visibly yours

Supporting healthcare professionals
a billion times
per year

More than a billion times each year, healthcare professionals rely on Barco to make life-critical decisions. Every day, Barco provides them with unmatched image quality and superior workflow efficiency so they can deliver the very best in patient care.

# Index

TECHNOLOGY THAT MAKES A DIFFERENCE

Backlight Output Stabilization (BLOS)

Backlight Output Stabilization is an image stabilization system driven by a small sensor which is mounted at the rear of the display. If the lamps of a display dim over time (which is inherent to their ageing), BLOS compensates for the luminance drop by applying more power to the lamps. BLOS is a standard feature on all Nio and MDRC displays.

Benefits:

• Improved optical performance over time

• Long-term image stability
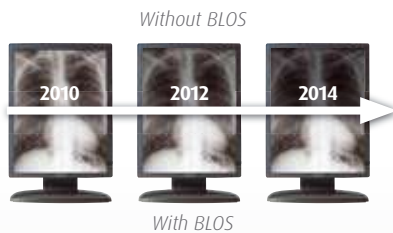
I-Guard front sensor

I-Guard is an integrated sensor technology designed to make Quality Assurance an easy job. Mounted at the front of the display, I-Guard continuously monitors and adjusts your screen's luminance and color consistency without disturbing the diagnostic workflow. Combined with the online MediCal QAWeb system, I-Guard provides an easy-to-use tool for calibration, Quality Assurance and asset management. I-Guard is standard on all Coronis display systems.

Benefits:

• Worry-free DICOM accuracy

• Continuous, automated Quality Assurance

• Remote assessment of your display's image quality

Intelligent Multi Sensor Technology

To ensure continuous diagnostic confidence, Barco developed Intelligent Multi Sensor Technology (I-MST) for its LED diagnostic displays. With this system, front-of-screen, backlight, ambient light and temperature sensors work together seamlessly to optimize image quality and to keep it consistent over time. I-MST is a standard feature on all Coronis LED backlit display systems.

Benefits:

• Perfect image quality

• Consistent images over time

Without BLOS

2010 2012 2014

With BLOS

Without I-Guard

2010 2012 2014

With I-Guard

Backlight sensor

Temperature sensor

Front-of-screen sensor

Ambient light sensor

MediCal QAWeb system

MediCal QAWeb is a sophisticated online service which helps users to ensure high-grade Quality Assurance. MediCal QAWeb provides an easy-to-use, web-based tool for calibration, Quality Assurance and asset management.

Benefits:

• Maximum uptime of your workstations

• Guaranteed image quality and consistency at all times

• No interruption of the viewing process

MediCal QAWeb Server

Secured internet connection

Hospital

Remote office

Hospital
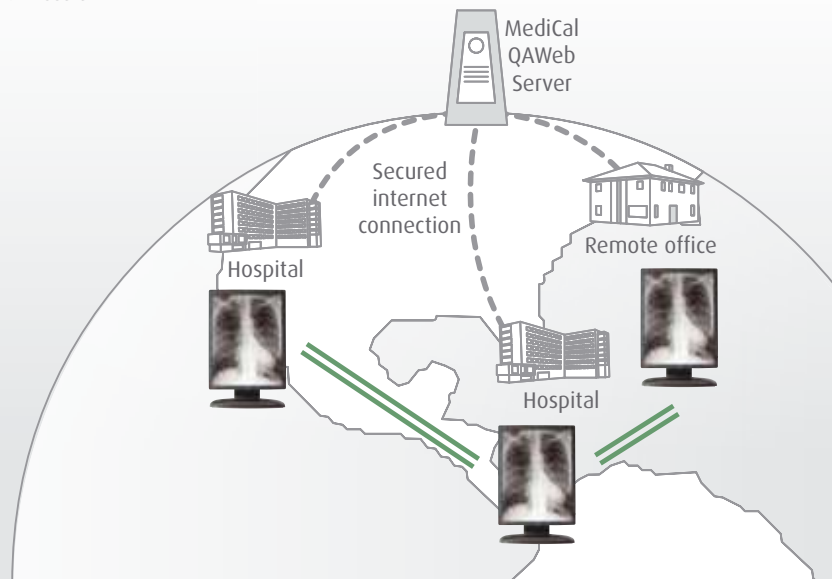
Uniform Luminance Technology (ULT/ULT-LED)

Uniform Luminance Technology reduces luminance and color non-uniformities which typically exist between the center and the corners of an LCD screen. By reducing these irregularities, Uniform Luminance Technology makes sure that your display is compliant with DICOM GSDF across the entire screen area.

Benefits:

- Uniform luminance across the entire screen
- Perfect DICOM compliance from center to corner

Ambient Light Compensation (ALC)

Ambient Light Compensation assures that your diagnostic display system remains DICOM compliant under all lighting conditions by adapting your display's brightness to the ambient light level in the room. In combination with the proven MediCal QAWeb quality assurance system, the system also warns you when the ambient light level exceeds a predefined threshold. ALC is a standard feature on all Coronis display systems.

Benefits:

- DICOM-compliance under all lighting conditions
- Optimized image quality for your environment

Per Pixel Uniformity (PPU/PPU-LED)

Per Pixel Uniformity technology measures and adjusts the luminance of each pixel and makes it permanently DICOM compliant. As such, Per Pixel Uniformity eliminates screen noise, which significantly improves the accuracy of digital mammography images.

Benefits:

- Reduced screen noise
- Improved contrast and accuracy in dense breast tissue
- Improved image quality at a lower dose to the patient

Without ULT   *With ULT*

DICOM compliance under all lighting conditions thanks to ALC

Without PPU   *With PPU*

DICOM

What is DICOM?

DICOM (Digital Imaging and Communications in Medicine) is an international standard that was developed to improve the communication of digital images in radiology.

The DICOM standard...

• specifies a grayscale function used to adjust the grayscale characteristics of monitors used in healthcare imaging;

• allows for PACS workstations, CT scanners, MR imagers, film digitizers, shared archives, laser printers, computers and mainframes from different suppliers to 'talk' to each other within a radiological environment.

Benefits:

Opting for DICOM-compliant devices brings significant advantages. Not only does it ensure consistent image quality throughout the PACS chain, it also improves cost-effectiveness in healthcare.

DL — Diagnostic Luminance (DL)

Diagnostic Luminance is a high-grade backlight technology which generates exceptional brightness and superb contrast. Thanks to Diagnostic Luminance, grayscale as well as color studies can be read on a single, multi-modality display system. DL comes standard on every Coronis Fusion 4MP.

Benefits:

• Brighter images

• Color and grayscale studies can be read on a single display

Grayscale studies   *Color studies*

Multi-modality display
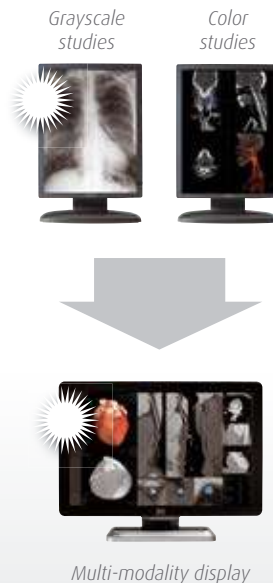
DURALIGHT — DuraLight backlights

DuraLight backlights deliver high-bright images for a period that is on average 3 to 5 times longer than conventional Cold Cathode Fluorescent Lamps, without increasing power consumption.

Benefits:

• Enduring high luminance over the display's entire lifetime

• Minimal color variation between displays

IPS WideView technology

IPS WideView is an advanced LCD architecture presenting images with more uniform black levels and better contrast, even from a wide viewing angle. In the day-to-day imaging practice, this translates into better image impressions, increased visibility of subtle details in dark areas and a faster and more efficient workflow when working in a multi-user setup.

Benefits:

- Better black uniformity and contrast, even from a wide viewing angle

- More accurate and efficient multi-user viewing
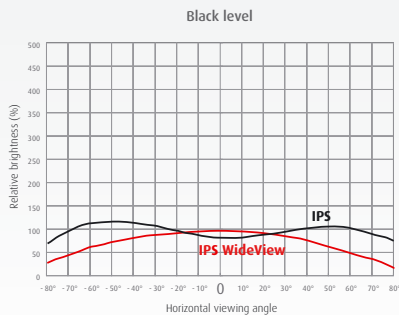
Black level

Black levels are more uniform and less dependent of the viewing angle

IPS-Pro technology

IPS-Pro is a breakthrough LCD architecture offering a significantly wider viewing angle and higher contrast ratio than competing LCD technologies. More importantly, IPS-Pro widens the viewing cone in which contrast levels are high enough to detect even the most subtle lesions. With IPS-Pro, this angle is 120°, which is nearly twice the value achieved by other technologies. IPS-Pro is standard on the Coronis Fusion 4MP and 6MP.

Benefits:

- Superior diagnostic accuracy

- Wider viewing angle improves multi-user viewing

Conventional LCD technology
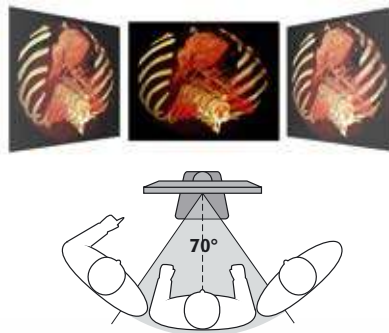
Conventional LCD technology: colors and contrast values change substantially when looked at from an angle

IPS-Pro LCD technology
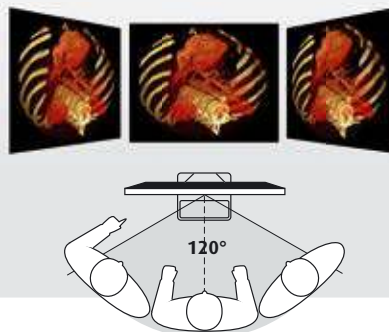
IPS-Pro delivers diagnostic precision up to a viewing angle of 120°

Protective front cover

The protective front cover protects the valuable LCD panel against damage from intensive use in clinical rooms. In addition, the cover's non-reflective coating improves your diagnostic experience and keeps reflections very low. All Barco diagnostic displays are equipped with a protective front cover.

Benefits:

- Excellent protection of your valuable LCD panel

- Improved image contrast & minimal reflections

- Easy and safe cleaning

Non-reflective front cover for protection of the LCD

'Fusion' design

'Fusion' design replaces a dual-head display setup (which is very common in PACS imaging) by a single, large-screen monitor without a hindering central bezel. This gives you more freedom to organize your workspace just the way you like it.

Benefits:

- Improved workflow productivity
- Efficient side-by-side comparison of initial, prior and current studies
- Reduced eye fatigue

Seamless 'Fusion' design for improved reading comfort

SmoothGray technology

SmoothGray technology presents gray-scale images with an ultra-precise palette of just noticeable differences – perfectly adapted to the sensitivity of the human eye. It does this by combining a special dithering algorithm with a high-precision processor architecture. Thanks to the ultra-precise SmoothGray curve, it becomes easier to detect subtle details, such as pulmonary nodules or pneumothoraces. SmoothGray is a standard feature on Coronis Fusion 10MP.

Benefits:

- Ultra-smooth and accurate grayscale images
- Better detection of subtle details
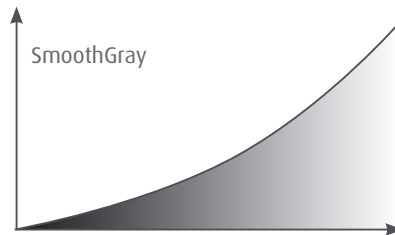
SmoothGray

The advanced SmoothGray algorithm makes subtle details more noticeable

DisplayPort interface

DisplayPort is an ultra-fast digital video interface standard perfectly suited for high-resolution display devices. Thanks to its large bandwidth, DisplayPort guarantees ultra-fast data transfers between your graphics card and your monitor. Moreover, it allows for an easy 'plug & play' setup of your system.

Benefits:

- Easy 'plug & play' setup
- High-speed data transfer from computer to monitor

DuraLight Nova backlights

Long-life DuraLight Nova™ backlights deliver twice the brightness of conventional Cold Cathode Fluorescent Lamps, guaranteeing a diagnostic luminance of 1,000 cd/m² for the lifetime of the display. In addition, they last twice as long without increasing power consumption. They are a standard feature on Barco's Mammo Tomosynthesis 5MP.

Benefits:

- Excellent visibility of subtle details, especially in dense breast tissue

- Increased image clarity of near skin-line details

- Twice as bright for twice as long

2010   2012   2014

High luminance over the display's entire lifetime

RapidFrame technology

RapidFrame technology allows high-speed cine imaging without blur when reviewing multi-frame image sequences, such as tomosynthesis, breast ultrasound and breast MRI. Scrolling through a stack of images usually results in loss of detail due to the slow response time of the LCD screen. RapidFrame technology counteracts motion blur by providing a high pixel refresh rate.

Benefits:

- High-speed cine imaging without blur for fast interpretation

- Increased screening rates due to highly efficient diagnostic workflow

- Cost-effective mammography screening

I-Luminate

Barco's Mammo Tomosynthesis 5MP offers extra brightness right at your fingertips. Simply push the I-Luminate™ 'hot light' button to temporarily boost your display brightness. Imagine how convenient this will prove when inspecting subtle details or comparing current digital exams with film-based priors.

Benefits:

- Enhanced perception of small and low contrast details

- Simplified comparison with film-based studies

- Uninterrupted DICOM-compliance

Just Noticeable Differences (JNDs)

with I-Luminate

Barco Mammo Tomosynthesis 5MP
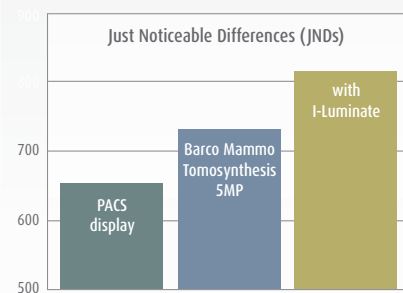
PACS display

DIAGNOSTIC DISPLAYS

Thirty years of experience and innovation in diagnostic imaging have culminated in the world's most desired portfolio of diagnostic display systems. Barco's offering of Nio and Coronis displays includes dedicated solutions for grayscale and color, and for moving and static 2D, 3D and 4D imaging.

NIO - Nio display systems provide a unique combination of performance and dependability, thereby defining today's industry standard for diagnostic medical displays. Choosing Nio is choosing a diagnostic display system you can depend on.

CORONIS - Coronis display systems are widely acclaimed for providing complete diagnostic confidence, superior return on investment and an unmatched diagnostic reading experience. When precision is a must, put your trust in the proven performance of Coronis.

DIAGNOSTIC COLOR DISPLAYS

Nio Color 2MP LED (MDNC-2221)
2MP high-bright color diagnostic display system

Equipped with high-bright LED backlights, Nio Color 2MP LED delivers excellent brightness and more shades of gray to detect subtle details more quickly. The unique front-of-screen sensor ensures you see consistent and precise images at all times for confident diagnoses.

| 2 MP | 21" SCREEN | LED BACKLIGHT | COLOR | FRONT SENSOR | BLOS | ULT | QAWeb | 30 BIT | COVER | DISPLAY PORT | PIVOT | 5Y WARRANTY | GREEN |

Ideal for:

- Radiography
- Cross-sectional imaging
- Fluoroscopy
- Ultrasound
- Orthopedics
- Interventional suites

Main characteristics

> See more grayscales with brighter LED backlights
> Unique front-of-screen sensor ensuring perfect DICOM images
> Wide viewing angle for optimum multi-user viewing
> Power-efficient, long-life LED backlights
> Long-term luminance stability with BLOS backlight sensor technology
> Fast image loading and smooth manipulation of images
> Perfect color matching between displays
> Improved diagnostic quality thanks to non-reflective front cover

Resolution	1,600 x 1,200
Display size	21.3 inch
Pixel pitch	0.2700 x 0.2700 mm
Color support	30 bit
Brightness	800 cd/m^2
DICOM calibrated luminance	400 cd/m^2
Contrast ratio	1400:1
Video input signals	DVI-D Dual-Link, DisplayPort
Sensor	BLOS backlight sensor, front-of-screen sensor
Dimensions (W x H x D)	**With stand:** Portrait: 378 x 528 - 628 x 235 mm Landscape: 491 x 472 - 572 x 235 mm **Without stand:** Portrait: 378 x 491 x 84 mm

Nio Color 2MP LED is not yet commercially available in the US.

Nio Color 3MP LED (MDNC-3321)
3 MegaPixel high-bright color diagnostic display system

Nio Color 3MP LED is a 3 MegaPixel high-bright color display system with LED backlights, providing excellent image quality for confident diagnoses. Nio Color 3MP LED provides an effective display solution for a multitude of applications and modalities, including 3D PACS, 3D echo, ultrasound, orthopedic imaging, CAD, image fusion, nuclear medicine and PET.

3 MP	21" SCREEN	LED BACKLIGHT	COLOR	FRONT SENSOR	BLOS	ULT	QAWeb	30 BIT	COVER	DISPLAY PORT	PIVOT	5Y WARRANTY	GREEN

Main characteristics

> See more grayscales with brighter LED backlights
> Unique front-of-screen sensor ensuring perfect DICOM images
> Wide viewing angle for optimum multi-user viewing
> Power-efficient, long-life LED backlights
> Long-term luminance stability with BLOS backlight sensor technology
> Fast image loading and smooth manipulation of images
> Perfect color matching between displays
> Improved diagnostic quality thanks to non-reflective front cover

Resolution	1,536 x 2,048
Display size	21.3 inch
Pixel pitch	0.2115 x 0.2115 mm
Color support	30 bit
Brightness	800 cd/m²
DICOM calibrated luminance	400 cd/m²
Contrast ratio	1400:1
Video input signals	DVI-D Dual-Link, DisplayPort
Sensor	BLOS backlight sensor, front-of-screen sensor
Dimensions (W x H x D)	**With stand:** Portrait: 382 x 520 - 620 x 250 mm Landscape: 488 x 463 - 563 x 250 mm **Without stand:** Portrait: 375 x 488 x 100 mm

Ideal for:

• Radiography
• Cross-sectional imaging
• Fluoroscopy
• Ultrasound
• Orthopedics
• Interventional suites

Coronis Fusion 4MP DL (MDCC-4130)
4 MegaPixel wide-screen color diagnostic display system

Coronis Fusion 4MP DL is an innovative 30-inch color display system specifically designed to bring enhanced flexibility to your diagnostic workflow. Coronis Fusion 4MP DL seamlessly unites two portrait 2 MegaPixel displays into one integrated multi-modality desktop, which enables you to read CT, MR, cardiac and orthopedic images, or any other combination, side by side on a single diagnostic screen.

| 4 MP | 30" SCREEN | FUSION | COLOR | GRAY | DL | I-GUARD | QAWeb | ULT | ALC | 30 BIT | GLASS | 5Y WARRANTY | GREEN |

Ideal for:

- Radiography
- Cross-sectional imaging
- Orthopedics
- Ultrasound
- Nuclear medicine
- Fluoroscopy
- Cardiology
- Hematology
- Opthalmology
- Microbiology
- Teaching & training suites
- Conference & meeting rooms
- Pathology

Main characteristics

> Truly seamless 30-inch desktop without distracting bezels

> Grayscale and color imaging on a single, multi-modality display system

> Unrivaled contrast, brightness and viewing angle with breakthrough IPS-Pro LCD technology

> Uniform brightness from center to corner through Uniform Luminance Technology

> Fast image loading and smooth manipulation of images

> Improved diagnostic quality thanks to non-reflective protective front cover

Resolution	2,560 x 1,600
Display size	29.9 inch
Pixel pitch	0.2505 x 0.2505 mm
Color support	30 bit
Brightness	1,000 cd/m²
DICOM calibrated luminance	500 cd/m²
Contrast ratio	1,100:1
Video input signals	2x DVI-D Dual-Link
Sensor	I-Guard front sensor
Dimensions (W x H x D)	**With stand:** 731 x 580 - 676 x 265 mm **Without stand:** 731 x 485 x 141 mm

Coronis Fusion 6MP LED (MDCC-6230)
6 MegaPixel wide-screen color diagnostic display system

Coronis Fusion 6MP LED is a 30-inch multi-modality display system designed to bring enhanced flexibility to the diagnostic workflow. It can be used as two seamless 3MP heads or one widescreen 6MP display and allows you to read CT, MR, cath and echo cardiogram images, or any other combination, side by side on a single screen. Now equipped with high-bright LED backlights, Coronis Fusion 6MP LED enhances clinical performance by making subtle details more noticeable more quickly, while saving energy and extending lifespan.

| 6 MP | 30" SCREEN | FUSION | LED BACKLIGHT | DL | MULTI-SENSOR | SMOOTHGRAY | I-GUARD | ULT | ALC | DISPLAY PORT | 30 BIT | GLASS | 5Y WARRANTY | GREEN |

Main characteristics

> Improved workflow productivity
> Seamless 30-inch desktop reduces eye strain
> Grayscale and color imaging on a single, multi-modality display system
> High-bright, power-efficient LED backlights
> Uniform and consistent brightness thanks to intelligent multi-sensor technology
> Unrivaled contrast, brightness and viewing angle with IPS-Pro LCD technology
> Fast image loading and smooth manipulation of images
> Improved diagnostic quality thanks to non-reflective protective front cover

Resolution	3,280 x 2,048
Display size	30.4 inch
Pixel pitch	0.1995 x 0.1995 mm
Color support	30 bit
Brightness	720 cd/m²
DICOM calibrated luminance	500 cd/m²
Contrast ratio	1,000:1
Video input signals	2x DVI-D Dual-Link, 2x DisplayPort
Sensor	I-Guard front sensor
Dimensions (W x H x D)	**With stand:** : 731 x 580 - 676 x 265 mm **Without stand:** 731 x 485 x 141 mm

Ideal for:

• Radiography
• Cross-sectional imaging
• Orthopedics
• Ultrasound
• Nuclear medicine
• Fluoroscopy
• Cardiology
• Hematology
• Opthalmology
• Microbiology
• Surgery
• Interventional suites
• Teaching & training suites
• Conference & meeting rooms
• Pathology

DIAGNOSTIC GRAYSCALE DISPLAYS

Nio 3MP (E-3620 MA)
3 MegaPixel grayscale diagnostic display system

Nio 3MP is an industry-standard grayscale display system that combines innovation and performance. The system's Backlight Output Stabilization (BLOS) technology guarantees fast power-up and continuously stabilizes the luminance output of the backlight. Featuring 2048 x 1536 resolution, Nio 3MP brings image crispness and a wide viewing angle to a multitude of medical applications.

3 MP	20" SCREEN	GRAY	BLOS	10 BIT	QAWeb	COVER	PIVOT	5Y WARRANTY

Main characteristics

> Excellent contrast and brightness
> Wide viewing angle for optimum multi-user viewing
> DICOM-compliance 'out of the box'
> Long-term luminance stability with BLOS backlight sensor technology
> Fast image loading and smooth manipulation of images
> Perfect color matching between displays
> Improved diagnostic quality thanks to non-reflective protective front cover

Ideal for:

• Radiography
• Cross-sectional imaging
• Fluoroscopy
• Ultrasound
• Orthopedics
• Interventional suites

Resolution	1,536 x 2,048
Display size	20.8 inch
Pixel pitch	0.207 x 0.207 mm
Shades of gray (LUT in/LUT out)	1,024 (10/10)
Brightness	1,000 cd/m²
DICOM calibrated luminance	500 cd/m²
Contrast ratio	900:1
Video input signals	DVI-D Dual-Link
Sensor	BLOS backlight sensor
Dimensions (W x H x D)	**With stand:** Portrait: 382 x 577.4 x 249 mm Landscape: 488 x 471.5 x 249 mm **Without stand:** Portrait: 382 x 488 x 114 mm

Coronis 3MP LED (MDCG-3221)

3 MegaPixel premium grayscale diagnostic display system

Coronis 3MP LED is the industry-leading display system for grayscale radiology imaging. It delivers optimum diagnostic precision and workflow efficiency for high-resolution PACS imaging, CT, MRI, chest radiology, angiography, etc.

| 3 MP | 21" SCREEN | LED BACKLIGHT | MULTI-SENSOR | SMOOTHGRAY | I-GUARD | PPU | QAWeb | ALC | GLASS | DISPLAY PORT | 10 BIT | PIVOT | 5Y WARRANTY | GREEN |

Ideal for:

- Radiography
- Cross-sectional imaging
- Fluoroscopy
- Ultrasound
- Orthopedics
- Interventional suites
- Cart-based solutions

Main characteristics

> See 50 more shades of gray
> Excellent brightness, contrast and grayscale accuracy
> Power-efficient, long-life LED backlights
> Reduced screen noise with PPU-LED technology
> Uniform luminance across the entire screen with ULT-LED technology
> Multi-sensor technology to optimize image quality and keep it consistent over time
> Online service for calibration and QA
> Improved diagnostic quality thanks to non-reflective protective front cover

Resolution	1,536 x 2,048
Display size	21.3 inch
Pixel pitch	0.2115 x 0.2115 mm
Shades of gray (LUT in/LUT out)	1,024 (10/12)
Brightness	1,700 cd/m²
DICOM calibrated luminance	600 cd/m²
Contrast ratio	1,400:1
Video input signals	DVI-D Dual-Link, DisplayPort
Sensor	I-Guard front sensor, backlight, ambient light and temperature sensors
Dimensions (W x H x D)	**With stand:** Portrait: 369 x 520 - 620 x 285 mm Landscape: 477 x 463 - 563 x 285 mm **Without stand:** Portrait: 375 x 488 x 100 mm
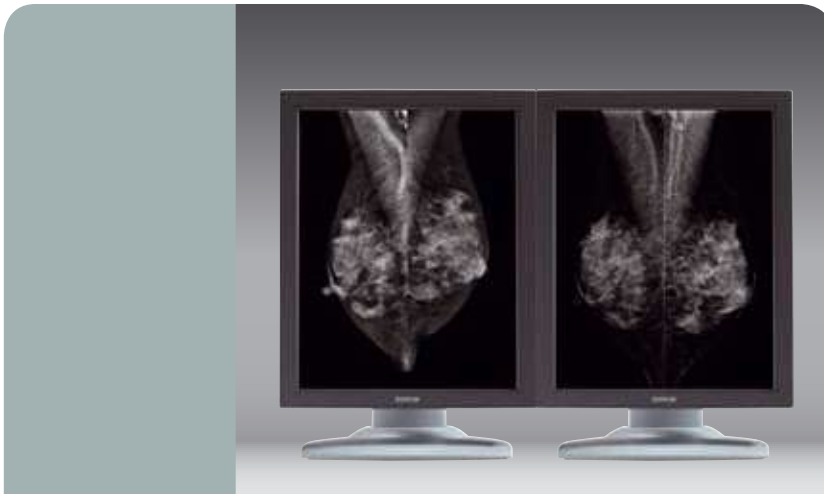
Nio 5MP (MDNG-6121) is a versatile diagnostic display system providing superb image crispness and an excellent viewing angle in a 2096 x 2800 resolution. It turns the Nio 5MP (MDNG-6121) into a perfect solution for X-ray, PACS, MRI, angiography, computed tomography and mammography on PACS. Every multi-head Nio 5MP display system is carefully color matched to guarantee that the color characteristics of all displays in the system are perfectly consistent.

| 5 MP | 21" SCREEN | GRAY | BLOS | QAWeb | 10 BIT | COVER | PIVOT | 5Y WARRANTY |

Main characteristics

> Excellent contrast and brightness
> Wide viewing angle for optimum multi-user viewing
> DICOM-compliance 'out of the box'
> Long-term luminance stability with BLOS backlight sensor technology
> Fast image loading and smooth manipulation of images
> Perfect color matching between displays
> Improved diagnostic quality thanks to non-reflective protective front cover

Ideal for:

• Radiography
• Cross-sectional imaging
• Orthopedics
• Digital mammography

Resolution	2,100 x 2,800
Display size	21.3 inch
Pixel pitch	0.154 x 0.154 mm
Shades of gray (LUT in/LUT out)	1,024 (10/12)
Brightness	1,100 cd/m^2
DICOM calibrated luminance	500 cd/m^2
Contrast ratio	1,000:1
Video input signals	DVI-D Dual-Link
Sensor	BLOS backlight sensor
Dimensions (W x H x D)	**With stand**: Portrait: 382 x 577.4 x 249 mm Landscape: 488 x 471.5 x 249 mm **Without stand:** Portrait: 382 x 488 x 114 mm

Coronis 5MP (MDCG-5121)
5 MegaPixel grayscale diagnostic display system

Coronis 5MP is a high-grade diagnostic display system offering film-like image quality with ultra-high resolution, intense brightness and rich contrast. The 21-inch Coronis 5MP guarantees unrivaled grayscale precision without pixelization, a wide viewing angle and perfect geometry.

5 MP	21" SCREEN	GRAY	I-GUARD	ULT	ALC	10 BIT	QAWeb	GLASS	PIVOT	5Y WARRANTY

Ideal for:

- High-resolution PACS
- Orthopedics
- Digital mammography
- Radiology
- Cross-sectional imaging

Main characteristics

> Excellent contrast, brightness and grayscale accuracy
> Intervention-free calibration and QA thanks to the integrated I-Guard sensor
> Fast image loading and smooth manipulation of images
> Worry-free DICOM-compliance under all lighting conditions
> Online service for calibration and QA
> Improved diagnostic quality thanks to the non-reflective protective front cover

Resolution	2,048 x 2,560
Display size	21.3 inch
Pixel pitch	0.165 x 0.165 mm
Shades of gray (LUT in/LUT out)	1,024 (10/12)
Brightness	1,100 cd/m²
DICOM calibrated luminance	500 cd/m²
Contrast ratio	850:1
Video input signals	DVI-D Dual-Link, DisplayPort
Sensor	I-Guard front sensor
Dimensions (W x H x D)	**With stand:** Portrait: 392 x 558 x 110 mm Landscape: 485 x 465 x 110 mm **Without stand:** Portrait: 392 x 484 x 110 mm

Coronis Fusion 10MP (MDCG-10130)
10 MegaPixel wide-screen grayscale diagnostic display system

Nothing less than filmless perfection; that's what you can expect from the Coronis Fusion 10MP display system. Equipped with proprietary 'SmoothGray' technology for a meticulously rendered grayscale curve, the Coronis Fusion 10MP makes subtle details and lesions more noticeable than ever before. Add to this exceptionally high brightness and contrast levels, truly dark blacks and perfect geometry and you begin to understand that supreme grayscale precision has a new meaning.

| 10 MP | 30" SCREEN | GRAY | I-GUARD | MULTI-SENSOR | QAWeb | SMOOTH GRAY | GLASS | FUSION | ULT | ALC | 10 BIT | DISPLAY PORT | 5Y WARRANTY | GREEN |

Main characteristics

> Seamless 30-inch desktop without distracting bezels
> Unmatched grayscale precision thanks to 'SmoothGray' technology
> Uniform brightness from center to corner through Uniform Luminance Technology
> Fast image loading and smooth manipulation of images
> Online service for calibration and QA
> Improved diagnostic quality thanks to non-reflective protective front cover

Ideal for:

• Radiography
• Cross-sectional imaging
• Orthopedics
• Digital mammography

Resolution	4,096 x 2,560
Display size	30 inch
Pixel pitch	0.158 x 0.158 mm
Shades of gray (LUT in/LUT out)	1,024 (10/12)
Brightness	1,250 cd/m^2
DICOM calibrated luminance	500 cd/m^2
Contrast ratio	950:1
Video input signals	2x DVI-D Dual-Link, 2x DisplayPort
Sensor	I-Guard front sensor
Dimensions (W x H x D)	**With stand:** 731 x 580 - 670 x 270 mm **Without stand:** 731 x 485 x 125 mm

DIGITAL MAMMOGRAPHY DISPLAYS

Barco mammography displays are the only digital display systems specifically designed for the unique requirements of digital breast imaging. Delivering complete and uninterrupted diagnostic confidence and high-bright image quality, they help radiologists make quick, accurate and confident diagnoses. That's why over 80% of all breast screening centers worldwide select Barco mammography display systems.

Coronis 5MP Mammo (MDMG-5121)
5 MegaPixel diagnostic display system for digital mammography

The Coronis 5MP Mammo display system proves that technology can make a real difference. Equipped with top-of-the-line LCD technology, the system offers highly accurate grayscale images with high resolution, high contrast and perfect geometry. Innovative technology, such as 'Per Pixel Uniformity', vouches for pixel-perfect images, without disturbing screen-noise.

| 5 MP | 21" SCREEN | GRAY | MAMMO | I-GUARD | PPU | DURALIGHT | QAWeb | GLASS | PIVOT | 5Y WARRANTY |

Ideal for:

• Digital mammography

Main characteristics

> Excellent contrast, brightness and grayscale accuracy
> Pixel-perfect images without disturbing screen noise, thanks to 'Per Pixel Uniformity'
> Intervention-free calibration and QA thanks to the integrated I-Guard sensor
> Fast and smooth image processing in 2D and 3D
> Worry-free DICOM-compliance under all lighting conditions
> Online service for calibration and QA
> Improved diagnostic quality thanks to non-reflective protective front cover
> Exceptionally long lifetime through DuraLight backlight technology

Resolution	2,048 x 2,560
Display size	21.3 inch
Pixel pitch	0.165 x 0.165 mm
Shades of gray (LUT in/LUT out)	1,024 (10/12)
Brightness	1,600 cd/m²
DICOM calibrated luminance	600 cd/m²
Contrast ratio	900:1 (typical)
Video input signals	DVI-D Dual-Link
Sensor	I-Guard front sensor
Dimensions (W x H x D)	**With stand:** Portrait: 408 x 582 x 250 mm Landscape: 492.5 x 507.5 x 250 mm **Without stand:** Portrait: 408 x 492.5 x 114 mm

Mammo Tomosynthesis 5MP (MDMG-5221)

5 MegaPixel diagnostic display system for digital breast imaging

Barco's Mammo Tomosynthesis 5MP has been developed to optimize reading and interpretation of digital breast tomosynthesis, a groundbreaking imaging modality that significantly improves accuracy of breast cancer detection. Its unique technologies for tomosynthesis visualization increase conspicuity of the smallest details, providing radiologists with a new degree of diagnostic confidence.

| 5 MP | 21" SCREEN | GRAY | MAMMO | TOMO | RAPIDFRAME | DURALIGHT | I-LUMINATE | PPU | I-GUARD | ALC | QAWeb | GLASS | PIVOT | 5Y WARRANTY |

Main characteristics

> High-speed cine imaging without motion blur, thanks to 'RapidFrame'
> Ultra-high brightness and durability through DuraLight Nova backlight technology
> 'Hot light' button for a temporary brightness boost
> Ultimate grayscale accuracy without disturbing screen noise
> Intervention-free calibration and QA thanks to the integrated I-Guard sensor
> Worry-free DICOM-compliance under all lighting conditions
> Online service for calibration and QA
> Improved diagnostic quality thanks to non-reflective protective front cover
> Adjustable dual-head stand for optimum viewing

Ideal for:

- Digital mammography
- Multi-frame mammography
- Digital breast tomosynthesis

Resolution	2,048 x 2,560
Display size	21.3 inch
Pixel pitch	0.165 x 0.165 mm
Shades of gray (LUT in/LUT out)	1,024 (10/12)
Brightness	2,100 cd/m^2
DICOM calibrated luminance	1,000 cd/m^2
Contrast ratio	950:1 (typical)
Video input signals	DisplayPort, DVI
Sensor	I-Guard front sensor
Dimensions (W x H x D)	**With stand:** Portrait: 392 x 558 x 250 mm **Without stand:** Portrait: 392 x 484 x 123 mm

CLINICAL DISPLAYS

Today, medical images, enriched with patient information, are being shared and reviewed beyond the radiology department, becoming available in every hospital department. With its clinical displays, Barco provides healthcare specialists with a solid basis for confident image viewing anywhere in the hospital while ensuring peace of mind for the IT/PACS team through networked quality assurance.

MDRC-1119 (TS)
19-inch clinical display

The MDRC-1119 is a 19-inch clinical review display for hospital-wide viewing of clinical data and images. The multi-purpose MDRC-1119 brings reliable, DICOM-compliant images to a broad palette of environments and imaging applications, including the EMR system.

| 1 MP | 19" SCREEN | COLOR | DICOM | BLOS | WIDE VIEW | CLEARED | OSD | QAWeb | PIVOT |

Ideal for:

• Hospital-wide imaging at the point of care
• Dental practices
• Private practices
• Cart-based solutions
• Pathology imaging

Main characteristics

> Professional LCD quality for accurate representation of medical images
> Cleared for medical and dental imaging
> Integrated DICOM Part 14 Look-Up Table
> Backlight Output Stabilization (BLOS) for stabilized luminance over time
> Accurate Quality Assurance with MediCal QAWeb
> Optional protective front cover
> Optional touch screen interface

Resolution	1,280 x 1,024
Display size	19 inch
Pixel pitch	0.294 x 0.294 mm
Brightness	300 cd/m^2
DICOM calibrated luminance	180 cd/m^2
Contrast ratio	1,300:1
Viewing angle	178°
Video input signals	DVI-D Single-Link, VGA (DB15)
Sensor	BLOS backlight sensor
Dimensions (W x H x D)	**With stand:** 418 x 535 - 425 x 223 mm **Without stand:** 418 x 346 x 70 mm

Eonis 22" black (MDRC-2122 BL)
22-inch clinical display with high-precision LCD

Built with healthcare specialists in mind, this 22-inch clinical display combines high image quality, utmost precision, and an attractive, versatile design with networked quality assurance. Providing access to consistent and precise images, Eonis facilitates collaboration between specialists.

2 MP	22" SCREEN	LED BACKLIGHT	WIDE SCREEN	COLOR	DICOM	CONSISTENCY	DISPLAY PORT	WIDE VIEW	CLEARED	OSD	QAWeb

Main characteristics

> Medical-grade panel for excellent image quality
> Front consistency sensor for consistency over time
> MediCal QAWeb suite for centralized management of image quality and assets
> Integrated cable management system
> Flexible VESA mount for easy arm mounting

Ideal for:

• Specialist offices (oncology, pulmonology, cardiology, orthopedics, ophthalmology, etc.)
• Patient Consultation Rooms
• Nurse stations
• Emergency Rooms
• Any place where collaboration on patient cases is important

Resolution	1,920 x 1,080
Display size	21.5 inch
Backlight	LED
Brightness	250 cd/m²
Contrast ratio	1,000:1 typical
Viewing angle	178° (IPS)
Video input signals	VGA, DisplayPort, HDMI
Sensor	Front sensor
Dimensions (W x H x D)	507 x 376 x 166 mm

Eonis 22" white (MDRC-2122 WP)
22-inch clinical display with cleanable design

This 22-inch clinical display is exceptionally cleanable – even with 70% alcohol cleaning agents – making it safe for use in a clinical environment. The image consistency and centralized quality assurance facilitate collaboration between specialists.

| 2 MP | 22" SCREEN | LED BACKLIGHT | WIDE SCREEN | COLOR | DICOM | CONSISTENCY | DISPLAY PORT | WIDE VIEW | CLEARED | GLASS | OSD | QAWeb |

Ideal for:

- Specialist offices (oncology, pulmonology, cardiology, orthopedics, ophthalmology, etc.)
- Patient Consultation Rooms
- Mobile carts
- Nurse stations
- Emergency Rooms
- Any place where collaboration on patient cases is important
- Any place where infection control is important

Main characteristics

> Fully sealed design and protective front glass for exceptional cleanability
> Front sensor to automatically align image quality
> MediCal QAWeb suite for quality assurance
> Stylishly white with rounded corners
> Integrated cable management system
> Flexible VESA mount for easy arm mounting

Resolution	1,920 x 1,080
Display size	21.5 inch
Backlight	LED
Brightness	250 cd/m²
Contrast ratio	1,000:1 typical
Viewing angle	178° (IPS)
Video input signals	VGA, DisplayPort, HDMI
Sensor	Front sensor
Dimensions (W x H x D)	507 x 376 x 166 mm

Eonis 24" black (MDRC-2224 BL)
24-inch clinical display with high-precision LCD

| WUXGA 1920x1200 | 24" SCREEN | LED BACKLIGHT | PIVOT | COLOR | DICOM | CONSISTENCY | DISPLAY PORT | WIDE VIEW | CLEARED | QAWeb |

Main characteristics

> Medical-grade panel for excellent image quality
> Front consistency sensor for consistency over time
> MediCal QAWeb suite for centralized management of image quality and assets
> Integrated cable management system
> Flexible VESA mount for easy arm mounting
> Allows positioning in portrait orientation

Resolution	1,920 x 1,200
Display size	24.1 inch
Backlight	LED
Brightness	300 cd/m²
Contrast ratio	1,000:1 typical
Viewing angle	178° (IPS)
Video input signals	VGA, DisplayPort, HDMI
Sensor	Front sensor
Dimensions (W x H x D)	560.4 x 533 x 164.45 mm

Ideal for:

• Specialist offices (oncology, pulmonology, cardiology, orthopedics, ophthalmology, etc.)
• Patient Consultation Rooms
• Nurse stations
• Emergency Rooms
• Any place where collaboration on patient cases is important

Eonis 24" white (MDRC-2224 WP)
24-inch clinical display with cleanable design

This 24-inch clinical display is exceptionally cleanable – even with 70% alcohol cleaning agents – making it safe for use in a clinical environment. The image consistency and centralized quality assurance facilitate collaboration between specialists.

| WUXGA 1920x1200 | 24" SCREEN | LED BACKLIGHT | CLEANABLE | PIVOT | COLOR | DICOM | CONSISTENCY | DISPLAY PORT | WIDE VIEW | CLEARED | QAWeb |

Ideal for:

- Specialist offices (oncology, pulmonology, cardiology, orthopedics, ophthalmology, etc.)
- Patient Consultation Rooms
- Mobile carts
- Nurse stations
- Emergency Rooms
- Any place where collaboration on patient cases is important
- Any place where infection control is important

Main characteristics

> Fully sealed design and protective front glass for exceptional cleanability
> Front sensor to automatically align image quality
> MediCal QAWeb suite for quality assurance
> Stylishly white with rounded corners
> Integrated cable management system
> Flexible VESA mount for easy arm mounting
> Allows positioning in portrait orientation

Resolution	1,920 x 1,200
Display size	24.1 inch
Backlight	LED
Brightness	300 cd/m²
Contrast ratio	1,000:1 typical
Viewing angle	178° (IPS)
Video input signals	VGA, DisplayPort, HDMI
Sensor	Front sensor
Dimensions (W x H x D)	560.4 x 533 x 164.45 mm

DENTAL DISPLAYS

Barco brings the image precision it is renowned for by radiologists, surgeons and specialists around the world to dental professionals too. Built with dentists in mind, Barco's Eonis displays include precisely those features that dentists need: infection control, precise images, and an attractive, versatile design in order to provide the best possible patient experience.

Eonis 22" white (MDRC-2122 WP)

22-inch dental display with cleanable design

This 22-inch dental display provides dentists with crisp, high-contrast dental images. It features a unique front sensor to ensure image consistency at all times. The white Eonis is also the first dental display that can be fully disinfected with commonly used cleaning agents for optimum cleanliness of the dental practice.

| 2 MP | 22" SCREEN | LED BACKLIGHT | WIDE SCREEN | COLOR | DICOM | CONSISTENCY | DISPLAY PORT | WIDE VIEW | CLEARED | GLASS | OSD | QAWeb |

Ideal for:

- Dental practices
- Private practices
- Places where image quality and cleanliness are important

Main characteristics

> Fully sealed design and protective front glass for exceptional cleanability
> Front sensor to automatically align image quality
> MediCal QAWeb suite for quality assurance
> Stylishly white with rounded corners
> Integrated cable management system
> Flexible VESA mount for easy arm mounting

Resolution	1,920 x 1,080
Display size	21,5 inch
Backlight	LED
Brightness	250 cd/m²
Contrast ratio	1,000:1 typical
Viewing angle	178° (IPSp)
Video input signals	VGA, DisplayPort, HDMI
Sensor	Front sensor
Dimensions (W x H x D)	507 x 376 x 166 mm

Eonis 24" white (MDRC-2224 WP)
24-inch dental display with cleanable design

This 24-inch dental display provides dentists with crisp, high-contrast dental images. It features a unique front sensor to ensure image consistency at all times. The white Eonis is also the first dental display that can be fully disinfected with commonly used cleaning agents for optimum cleanliness of the dental practice.

| WUXGA 1920x1200 | 24" SCREEN | LED BACKLIGHT | CLEANABLE | PIVOT | COLOR | DICOM | CONSISTENCY | DISPLAY PORT | WIDE VIEW | CLEARED | QAWeb |

Main characteristics

> Fully sealed design and protective front glass for exceptional cleanability
> Front sensor to automatically align image quality
> MediCal QAWeb suite for quality assurance
> Stylishly white with rounded corners
> Integrated cable management system
> Flexible VESA mount for easy arm mounting
> Allows positioning in portrait orientation

Ideal for:

• Dental practices
• Private practices
• Places where image quality and cleanliness are important

Resolution	1,920 x 1,200
Display size	24.1 inch
Backlight	LED
Brightness	300 cd/m²
Contrast ratio	1,000:1 typical
Viewing angle	178° (IPS)
Video input signals	VGA, DisplayPort, HDMI
Sensor	Front sensor
Dimensions (W x H x D)	560.4 x 533 x 164.45 mm

DISPLAY CONTROLLERS

Barco's state-of-the-art display controllers deliver the performance, quality and stability required for today's advanced medical imaging applications. The powerful boards are optimized for medical workflow and multiple-display configurations to ensure ultra-fast and smooth image loading, roaming and manipulation of images and are validated with all the leading PACS applications.

DISPLAY CONTROLLERS

MXRT-1450
2D PCIe x1 small form factor display controller

Main characteristics

> Low-Profile PCIe x1 MXRT display controller
> 512 MB DDR3 display memory
> Single-wide / low power consumption
> Single driver supports all MXRT display controllers under Windows 7

Compatible operating system	Windows XP and Windows 7 - 32/64-bit
Display memory	512 MB DDR3
Bus interface	PCIe Gen2 x 1
Maximum resolution	Up to 2MP at full refresh rate (VGA at boot-up)
Maximum power consumption	15 W
Dimensions (L X H)	169.7 x 64.5 mm (6.68" x 2.54") single PCIe slot wide
Platforms	Intel® and AMD architectures
Graphics accelerator	ATI FirePro™
Look-up table	32 bits in / 32 bits out
Pixel depth	32-bit pixels
Direct 3D HW support	Microsoft® DirectX v11.0, Vertex Shader 5.0, Pixel Shader 5.0
Open GL HW support	OpenGL 4.0
Display output connectors	DMS-59 to Single-Link DVI
Approvals	FCC Part 15 Class B, CE EN 55022 Limit B, EN 55024, UL-60950-1, BMSI CNS, CISPR- 22/24, IEC609050-1, VCCI, CSA C22.2, EU RoHS directive (2002/95/EC), Certificate of Information & Communication Equipment (Republic of Korea)

The MXRT-1450 is a low-profile and small form factor PCIe display controller. The graphics controller can be used to drive HIS, RIS and patient list monitors up to 1920 x 1200 display resolution in workstations where all PCIe x16 slots are occupied. Thanks to its compact factor, the MXRT-1450 offers a perfect solution for set-ups where a low-profile workstation is needed for space efficiency.

MXRT-2500
3D PCIe small form factor display controller

Main characteristics

> Low-profile MXRT display controller
> 1 GB DDR3 display memory
> Single-wide form factor
> Low power consumption

Compatible operating system	Windows 7 - 32/64-bit and Windows 8.1 – 32/64-bit
Display memory	1 GB DDR3
Bus interface	PCIe Gen2.1 x16
Maximum resolution	Up to 5.8MP grayscale at full refresh rate (VGA at boot-up)
Maximum power consumption	43 W
Dimensions (L X H)	169.7 x 55 mm (6.7" x 2.2") single PCIe slot wide
Platforms	Intel® and AMD architectures
Graphics accelerator	ATI FirePro™
Look-up table	32 bits in / 32 bits out
Pixel depth	32-bit pixels ((supports 8-bit and 10-bit per color channel)
Direct 3D HW support	Microsoft® DirectX v11.0, Vertex Shader 5.0, Pixel Shader 5.0
Open HW support	OpenGL 4.2 - OpenCL 1.1
Display output connectors	1x DVI-I, 1x Display Port (DP)
Approvals	FCC Part 15 Class B, EN 55022 Limit B, EN 55024, UL-60950-1, BMSI CNS, CISPR- 22/24, IEC60950-1, VCCI, CSA C22.2, EU RoHS directive (2011/65/EC), Certificate of Information & Communication Equipment (Republic of Korea)

The MXRT-2500 is a low-profile and small form factor PCIe display controller. It is compatible with the DisplayPort interface standard and offers a perfect solution for set-ups where a low-profile workstation is needed for space efficiency.

MXRT-5450

Windows XP 3D PCIe Dual-DVI display controller

The MXRT-5450 display controller delivers the performance, quality and stability required for today's 3D imaging applications in healthcare. The powerful GPU, based on PCIe Gen2 x 16 architecture, ensures ultra-fast and smooth image loading, roaming and manipulation of images with up to 5.8 MP grayscale resolution. The board features 2 DVI connectors, providing a solid solution for upgrades.

Main characteristics

> 2 DVI-I video outputs
> 1 GB GDDR5 display memory
> Single-wide form factor
> Low power consumption

Compatible operating system	Windows XP - 32/64-bit, Windows 7 - 32/64-bit
Display memory	1 GB GDDR5
Bus interface	PCIe Gen2 x16
Maximum resolution	Up to 2,096 x 2,800/head
Maximum power consumption	74 W
Dimensions (W x H x D)	230.5 x 98.3 mm (9.07" x 3.87") single PCIe slot wide
Platforms	Intel and AMD architectures
Graphics accelerator	ATI Fire Pro™
Look-up table	32 bits in / 32 bits out
Pixel depth	32-bit pixels (supports 8-bit and 10-bit per color channel)
Direct 3D HW support	Microsoft® DirectX v11.0, Vertex Shader 5.0, Pixel Shader 5.0
Open GL HW support	OpenGL 4.0
Display output connectors	2x DVI-I
Approvals	FCC Part 15 Class B, CE EN 55022 Limit B, EN 55024, UL-60950-1, BMSI CNS, CISPR-22/24, VCCI, CSA C22.2, EU RoHS directive (2002/95/EC), Certificate of Information & Communication Equipment (Republic of Korea)

MXRT-5500

3D PCIe 3-head display controller

The high-performance MXRT-5500 allows you to drive three monitors with just one PCIe slot. As such, the board is the perfect match for PACS workstations combining two diagnostic displays with a third monitor for patient lists or 3D viewing applications. The MXRT-5500 is compatible with the DisplayPort interface standard, which assures easy installation and ultra-fast and reliable data transfers.

Main characteristics

> 3 display outputs
> PCIe 3.0 compliant
> 2 GB GDDR5 display memory
> Single-wide form factor

Compatible operating systems	Windows 7 - 32/64-bit and Windows 8.1 – 32/64-bit
Display memory	2 GB GDDR5
Bus interface	PCIe Gen3 x16
Maximum resolution	Up to 5.8MP grayscale at full refresh rate (VGA at boot-up)
Maximum power consumption	75 W
Dimensions (L x H)	184 x 111 mm (7.2" x 4.4") single PCIe slot wide
Platforms	Intel and AMD architectures
Graphics accelerator	ATI Fire Pro™
Look-up table	32 bits in / 32 bits out
Pixel depth	32-bit pixels (supports 8-bit and 10-bit per color channel)
Direct 3D HW support	Microsoft® DirectX v11.1, Vertex Shader 5.0, Pixel Shader 5.0
Open HW support	OpenGL 4.2 - OpenCL 1.2
Display output connectors	1x DVI-I, 2x Display Port (DP)
Approvals	CC Part 15 Class B, EN 55022 Limit B, EN 55024, UL-60950-1, BMSI CNS, CISPR- 22/24, IEC60950-1, VCCI, CSA C22.2, EU RoHS directive (2011/65/EC), Certificate of Information & Communication Equipment (Republic of Korea)

MXRT-5550
3D PCIe Dual-DVI display controller

Main characteristics

> 2 DVI-I video outputs
> PCIe 3.0 compliant
> 2 GB GDDR5 display memory
> Single-wide form factor

Compatible operating systems	Windows 7 - 32/64-bit and Windows 8.1 – 32/64-bit
Display memory	2 GB GDDR5
Bus interface	PCIe Gen3 x16
Maximum resolution	Up to 5.8MP grayscale at full refresh rate (VGA at boot-up)
Maximum power consumption	75 W
Dimensions (L x H)	184 x 111 mm (7.2" x 4.4") single PCIe slot wide
Platforms	Intel and AMD architectures
Graphics accelerator	ATI Fire Pro™
Look-up table	32 bits in / 32 bits out
Pixel depth	32-bit pixels (supports 8-bit and 10-bit per color channel)
Direct 3D HW support	Microsoft® DirectX v11.1, Vertex Shader 5.0, Pixel Shader 5.0
Open HW support	OpenGL 4.2 - OpenCL 1.2
Display output connectors	2x DVI-I
Approvals	FCC Part 15 Class B, EN 55022 Limit B, EN 55024, UL-60950-1, BMSI CNS, CISPR- 22/24, IEC60950-1, VCCI, CSA C22.2, EU RoHS directive (2011/65/EC), Certificate of Information & Communication Equipment (Republic of Korea)

The MXRT-5550 display controller delivers the performance, quality and stability required for today's 3D imaging applications in healthcare. The powerful GPU ensures ultra-fast and smooth image loading, roaming and manipulation of images with up to 5.8 MP grayscale resolution. The board features 2 DVI connectors, providing a solid solution for upgrades.

MXRT-7500
High-end 3D PCIe 4-head display controller

Main characteristics

> Easy installation and ultra-fast data transfers
> Four-head display outputs
> 4 GB GDDR5 display memory
> Low power consumption

Compatible operating systems	Windows 7 - 32/64-bit
Display memory	4 GB GDDR5
Bus interface	PCIe Gen3 x16
Maximum resolution	Up to 5.8MP grayscale at full refresh rate (VGA at boot-up)
Maximum power consumption	140 W
Dimensions (L x H)	242 x 98.53 mm (9.5" x 3.9") single PCIe slot wide
Platforms	Intel and AMD architectures
Graphics accelerator	ATI Fire Pro™
Look-up table	32 bits in / 32 bits out
Pixel depth	32-bit pixels (supports 8-bit and 10-bit per color channel)
Direct 3D HW support	Microsoft® DirectX v11.1, Vertex Shader 5.0, Pixel Shader 5.0
Open HW support	OpenGL 4.2 - OpenCL 1.2
Display output connectors	4-DisplayPort (DP)
Approvals	FCC Part 15 Class B, EN 55022 Limit B, EN 55024, UL-60950-1, BMSI CNS, CISPR-22/ 24, IEC60950-1, VCCI, CSA C22.2, EU RoHS directive (2002/95/EC), Certificate of Information & Communication Equipment (Republic of Korea)

Fitted with 4GB of memory and an ultrafast GPU, the top-of-the-line MXRT-7500 presents you with unmatched processing power for large medical datasets. This display controller can drive up to four full resolution displays using DisplayPort 1.2 technology. As such, the board is perfect for use in 4-head configurations. The MXRT-7500 supports DirectX, OpenGL and OpenCL and is compatible with Microsoft Windows® 7.
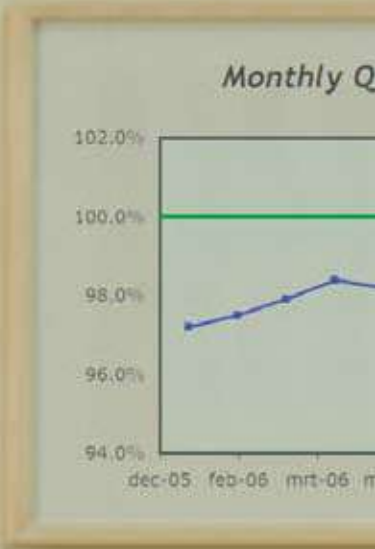
CALIBRATION AND QA TOOLS

Barco's Medical QAWeb system is a unique online service for high-grade calibration and Quality Assurance. Thanks to this all-inclusive, secured system, you can be sure of maximum diagnostic confidence and uptime of all PACS display systems throughout the healthcare facility.

CALIBRATION AND QA TOOLS

MediCal QAWeb
Secured online service for Quality Assurance of medical displays

MediCal QAWeb is the industry's first online service for high-grade Quality Assurance. The all-inclusive secured system is your guarantee for consistent image quality and uptime of all PACS display systems throughout the facility. The system is compatible with Barco diagnostic and clinical displays in addition to non-Barco displays.

User-friendly web interface

DIN option

Consistent QA management

MediCal QAWeb provides remote yet secured and HIPAA-compliant QA management. It ensures effortless diagnostic confidence for radiologists without interrupting the workflow.

Compliance with the latest QA standards

MediCal QAWeb permanently monitors your display systems to ensure continuous compliance with DIN 6868-57, AAPM TG18, JESRA, MQSA, IEC 62563-1 and other regional QA guidelines.

Effortless asset management

With MediCal QAWeb centralized management of diagnostic displays becomes truly effortless. Asset management tools provide a comprehensive overview of all workstations connected to the system and, when using Barco Nio or Coronis displays, the system will automatically notify the right person if an asset has been removed.

Effortless asset management

A unique and innovative business model

The innovative MediCal QAWeb solution fits the needs of every healthcare facility. A simple pay-as-you-go fee guarantees quality and performance of all PACS display systems at all times without requiring an upfront investment.

Various license models to fit your needs

· The **Essential** license is available out-of-the-box (and it's free of charge).
· The **Clinical** license includes tools for extended reporting, asset management, and QA of Barco's clinical and clinical review displays.
· The **Premium** license includes extended remote support, consolidated reporting, and functional hardware and software checks.

More information?

Visit **www.barco.com/qaweb**

MediCal QAWeb Mobile

Visual calibration and QA for your tablet

Mobile devices, such as smart phones and tablets, are growing at a double-digit rate in the radiology practice as they enhance access to patient information and accelerate workflow.

Accurate images anywhere

To provide you with the most accurate images and an unrivaled level of confidence, even when you are away from your workstation, Barco has developed MediCal QAWeb Mobile. It is a software tool for visual calibration and Quality Assurance which easily plugs into any mobile viewer of medical images.

Fast calibration and Quality Assurance

MediCal QAWeb Mobile ensures fast visual calibration in just eight steps. To check the settings, Barco also offers a Visual Confidence Test, displaying up to 20 dynamic test patterns for the radiologist to identify. You can quickly change the settings based on the ambient light conditions.

Confident viewing

MediCal QAWeb Mobile will display accurate images when integrated in the viewer app of your tablet, bringing a higher level of confidence when reading your studies remotely.

Benefits:

- Guaranteed DICOM-compliant images on your tablet
- Fast and simple calibration in just 8 steps
- Built-in Barco-patented Visual Confidence Test featuring a sequence of test patterns
- Secure logging and reporting of calibration activities and QA management

Compatible with:

- iPad 1
- iPad 2

DIGITAL OR

To meet the ever-changing imaging requirements in today's operating rooms, Barco offers a fully integrated digital operating room, comprising an advanced OR management suite, medical-grade adapters to distribute video and data, and a wide range of High-Definition surgical displays.

DIGITAL OR

Nexxis for OR
The fully networked digital operating room

Nexxis is a unique image management solution that builds on the IP network to ensure complete integration of all devices in and beyond the operating room. This 'OR-over-IP' approach enables more advanced imaging in an increasingly complex environment and ensures centralized control of the entire operating room.

Main characteristics

> Flexible IP platform with an open system architecture
> Limitless configuration possibilities
> Artifact-free image display with near-zero latency
> Centralized control
> Improved collaboration, communication and coordination
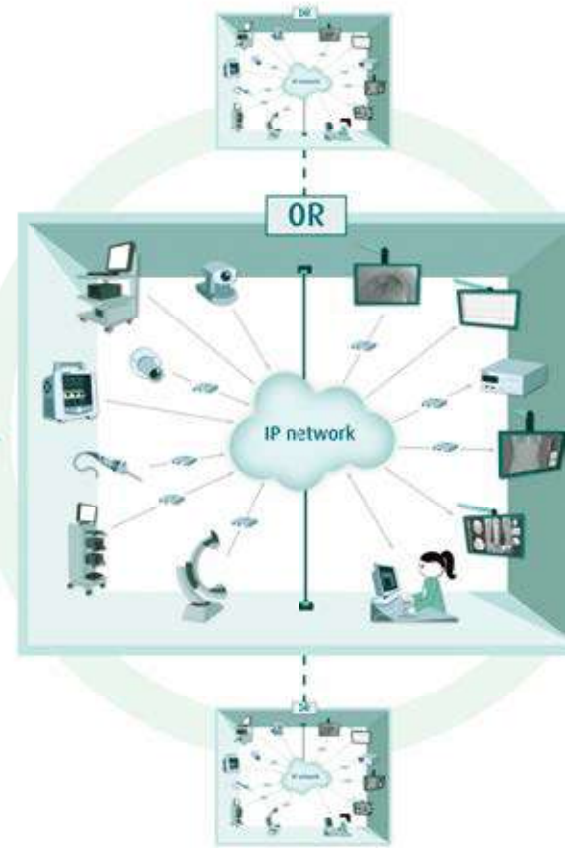
Nexxis OR management suite

Integrated within the user interface of the OR integrators, the Nexxis Management Suite (NMS) allows distribution of high-quality video, audio, keyboard and mouse towards any destination with a single touch on the screen.

> Centralized or distributed architecture
> Auto-detection of all network streams
> Plug & play of Nexxis encoders/decoders
> Zero-touch application installation
> Management of multi-OR infrastructure
> Easy integration thanks to intuitive REST API
> HiPAA authorization & security

Nexxis encoders & decoders

The MNA series comprises adapters to encode and decode video, data and other information (e.g. control signals) to and from IP streams.

> IP connectivity: 10GE Fiber Optic Interface with SFP+ connector module.
> USB: Non-video connectivity is supported via USB 2.0 connections
> Compliancy: supports HiPAA compliance, External 12V Medical Approved PSU
> Power consumption: < 30W
> Form factor design: 152 x 152 x 37mm

Nexxis transcoder

As an integral part of Barco's Nexxis digital OR solution – specifically designed for high-quality imaging with near-zero latency in today's operating rooms – the H.264 transcoder is perfect for applications that don't require lossless representation of information, such as training and remote consultations.

SURGICAL DISPLAYS

MDSC-1119
19-inch surgical color LCD display

The MDSC-1119 is 19-inch color LCD display that provides surgical teams with artifact-free images and unequalled precision, while meeting the unique patient safety and space requirements of the integrated OR.
Incorporating the latest LCD technology, the 1.3 MegaPixel MDSC-1119 delivers superb brightness and a wide viewing angle. This makes the monitor ideal for the OR's high ambient light conditions.

| 1 MP | 19" SCREEN | COLOR | WIDE VIEW | APPROVED | OSD | COVER |

Ideal for:

- Surgical imaging
- Endoscopic video
- Orthopedic imaging
- Interventional suites
- Cart-based solutions

Main characteristics

> High-bright color LCD panel with 1,280 x 1,024 resolution
> Wide viewing angle
> Advanced image processing algorithms
> Wide input connectivity for maximum flexibility
> Fan-less design for maximum patient safety
> Easy to handle and mount onto a cart or boom

Resolution	1,280 x 1,024
Display size	19 inch
Pixel pitch	0.294 x 0.294 mm
Brightness	280 cd/m² (full white)
DICOM calibrated luminance	< 280 cd/m² (depends on color temperature)
Contrast ratio	600:1 (typ.)
Response time	8 ms (gray to gray, typical)
Video input signals	DVI-I, VGA (D15), RGBS (4BNC), S-video, Composite video, Component video (4BNC), DVI fiber optical input, SDI/HD-SDI (BNC) input/output (optional), DVI fiber optic input (optional), PAL, SECAM, NTSC 3.58 & 4.43, HDTV (1080i, 720p, 480i/p, 1030i)
Mounting	75 & 100 mm VESA
Certification	UL 60601-1, EN60601-1, EN60601-1-2, c-UL, PSE, FCC-B, ICES-001, VCCI, CE, CCC, KETI
Dimensions (W x H x D)	**With stand:** 429.5 x 495 x 78.5 mm **Without stand:** 429.5 x 356.4 x 78.5 mm

MDSC-2224
24-inch High Definition surgical color LCD display

The MDSC-2224 is a 24-inch near-patient surgical display, featuring full HD resolution and a wide color gamut. Thanks to its high brightness and high contrast, it presents surgeons with accurate images and excellent depth perception. Purpose-built for the operating room, the MDSC-2224 offers an easy-clean design, smart mechanics and the most detailed images in the procedure room today.

| WUXGA 1920x1200 | 24" SCREEN | WIDE VIEW | WIDE SCREEN | APPROVED | LED BACKLIGHT | DISPLAY PORT | 10 BIT | OSD | COVER |

Main characteristics

> 24-inch wide-screen color LCD with full HD resolution
> Wide viewing angle
> High-brightness LED backlight
> Smart cable management system
> Light weight to easily mount onto spring arms
> Calibrated for perfect color and grayscale reproduction
> Widest range of SD and HD input signals, including 3G-SDI and DisplayPort

|	
Resolution	1,920 x 1,200
Display size	24 inch
Pixel pitch	0.270 x 0.270 mm
Brightness	350 cd/m² (typ.)
Contrast ratio	1,000:1 (typ.)
Response time	6 ms (GtG typ)
Video input signals	DVII Single-Link (Digital & Analog – HDMI video support with HDCP), Component Video RGBS / YPbPr (4xBNC), S-video (4-pin Mini DIN), Composite video (1xBNC), 3G-SDI (1xBNC), DisplayPort (VESA std 1.1a), Optional: integrated BARCO Nexxis network adapter
Mounting	100 mm VESA
Certification	IEC60601 3rd Edition, CE, C-UL-US, DEMKO, CCC, IEC60601-1, UL60601-1, CSA-C22.2 nr 601-1-M90, IEC60601-1-2, EN55011 / CISPR 11, FCC CFR47 part 15 & 18/Class A Environment: ROHS-2, REACH, WEEE compliant
Dimensions (W x H x D)	595 x 414 x 84 mm

Ideal for:

• Surgical imaging
• Endoscopic video
• Orthopedic imaging
• Interventional suites

MDSC-2226
26-inch High Definition surgical color LCD display

The MDSC-2226 is a near-patient surgical display featuring a 26-inch, wide-screen LCD panel (16:9) with Full HD resolution. Its high brightness and high contrast present surgeons with accurate images and excellent depth perception. The MDSC-2226 offers the fastest image transmission and the highest image quality available today and is a perfect fit for new integrated operating rooms.
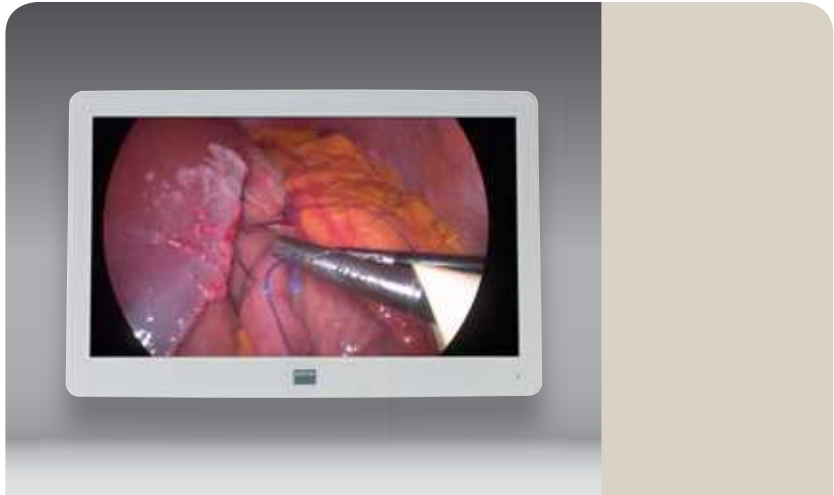
| 26" SCREEN | WIDE SCREEN | WIDE VIEW | APPROVED | LED BACKLIGHT | DISPLAY PORT | 10 BIT | DICOM | BLOS | OSD | COVER |

Ideal for:

- Surgical imaging
- Endoscopic video
- Orthopedic imaging
- Interventional suites

Main characteristics

> 26-inch wide-screen color LCD with full HD resolution
> Wide viewing angle
> High-brightness LED backlight
> Smart cable management system
> Light weight to easily mount onto a boom
> DICOM-compliant with backlight output stabilization
> Supports 3G-SDI and DisplayPort 1.2

Resolution	1,920 x 1,080
Display size	26 inch
Pixel pitch	0.30 x 0.30 mm
Brightness	450 cd/m^2 (typ.)
DICOM calibrated luminance	< 400 cd/m^2
Contrast ratio	1,400:1 (typ.)
Response time	9 ms
Video input signals	DVI-I Single link, RGBS / YPbPr (4xBNC), S-video (4-pin Mini DIN), Composite video (1xBNC), 3G-SDI (1xBNC – 2nd 3G-SDI option), VGA (on DVI-I), DisplayPort (VESA std 1.2) Options: DDI (Dual Digital Input): additional DVI-D and 3G-SDI input, Nexxis MNA-120 Decoder
Mounting	100 mm VESA
Certification	IEC60601 3rd Edition, CE, C-UL-US, DEMKO, IEC60601-1, UL60601-1, CSA-C22.2 nr 601-1-M90, EMC, IEC60601-1-2, EN55011 /CISPR 11, FCC CFR47 part 15 & 18/Class B, ROHS-2, REACH, WEEE compliant
Dimensions (W x H x D)	633 x 411 x 90 mm

MDSC-2242
42-inch High Definition LCD display for the operating room

The MDSC-2242 is a 42-inch large-screen surgical display with LED backlight, featuring full HD resolution. Purpose-built for the operating room, the MDSC-2242 can visualize a wide range of analog and digital video sources, including HD endoscopic video, room and boom camera video, patient and surgery information, radiology and pathology images, with ultimate detail.

| Full **HD** 1920x1080p | **42"** SCREEN | WIDE SCREEN | WIDE VIEW | APPROVED | L■D BACKLIGHT | DISPLAY PORT | **10** BIT | OSD | COVER |

Main characteristics

> 42-inch wide-screen color LCD with full HD resolution
> Wide viewing angle
> High-brightness LED backlight
> Easy cleaning thanks to full size protection screen
> Calibrated for perfect color and grayscale reproduction
> Widest range of SD and HD input signals, including 3G-SDI and DisplayPort
> Remote control over RS232 and infrared RC handset

Ideal for:

• Surgical imaging
• Endoscopic video
• Orthopedic imaging
• Interventional suites
• Teaching & training
• Conference & meeting rooms

Resolution	1,920 x 1,080
Display size	42 inch
Pixel pitch	0.485 x 0.485 mm
Brightness	500 cd/m² (full white)
Contrast ratio	4,000:1 (typ.)
Response time	8 ms (gray to gray, typical)
Video input signals	DVI-I Single-Link (Digital & Analog – HDMI video support with HDCP), Component Video RGBS / YPbPr (4xBNC), S-video (4-pin Mini DIN), Composite video (1xBNC), 3G-SDI (1xBNC), DisplayPort (VESA std 1.1a), Optional: integrated Nexxis network adapter
Mounting	VESA 600 and 200
Certification	IEC60601 3rd Edition, CE, C-UL-US, DEMKO, IEC60601-1, UL60601-1, CSA-C22.2 nr 601-1-M90, IEC60601-1-2, EN55011 /CISPR 11, FCC CFR47 part 15 & 18/Class A, ROHS-2, REACH, WEEE compliant
Dimensions (W x H x D)	1015 x 608 x 90 mm

MDSC-8258
Slimline 58-inch Quad HD surgical display

The MDSC-8258 is a large-screen surgical display with LED backlight, featuring a 58-inch LCD panel (16:9) with Quad HD resolution. Designed for use in interventional radiology and in the surgical suite, the MDSC-8258 delivers superb brightness, a wide viewing angle and a fast response time for excellent hand-eye coordination.

| QuadHD 3840 x 2160 | 8 MP | 58" SCREEN | WIDE SCREEN | WIDE VIEW | APPROVED | OSD | COVER |

Ideal for:

• Surgical imaging
• Endoscopic video
• Orthopedic imaging
• Interventional suites
• Teaching & training
• Medical control rooms

Main characteristics

> 58-inch wide-screen color LCD with Quad HD resolution
> Wide viewing angle
> High-brightness LED backlight
> Advanced image processing algorithms
> 2 sets of 2 x Dual-Link DVI inputs
> Available in three versions:

   MDSC-8258 L = without glass & without redundant power supply
   MDSC-8258 RL = without glass & with redundant power supply
   MDSC-8258 RLG = without glass & with redundant power supply

Resolution	3,840 x 2,160
Display size	58 inch
Pixel pitch	0.33mm x 0.33mm
Brightness	700 cd/m² (full white, typical, not stabilized)
DICOM calibrated luminance	400 cd/m² (max.)
Contrast ratio	4,000:1 (typ.)
Response time	8.5 ms (typ.)
Video input signals	2 x dual Dual-Link DVI, selectable
Mounting	VESA 400
Certification	IEC 60601-1, IEC 60601-1-2, EN 55011 - Class A, CISPR11 - Class A, EN55024, CISPR24, C-UL-US, FCC, Demko, CE
Dimensions (W x H x D)	1,318 x 776 x 146 mm

E240H3
24-inch High Definition surgical display for 3D imaging

With surgery becoming less invasive, surgeons are increasingly relying on state-of-the-art imaging technology as a window to a patient's body. Our 3D display offers excellent, natural stereoscopic vision, thanks to flicker-free, low-latency and minimal crosstalk imaging technology. It can be used with both 2D and 3D camera systems, which makes it ideal for surgeons planning to upgrade to 3D in the future.

| WUXGA 1920x1200 | 2 MP | 24" SCREEN | WIDE SCREEN | WIDE VIEW | APPROVED | BLOS | 3D | COVER |

Main characteristics

> Passive 3D technology with Xpol® polarizing filter
> Compatible with 2D and 3D sources
> Calibrated for perfect color reproduction (ITU 709 calibration)
> Vertical & horizontal alignment for left/right images
> Very low cross-talk
> Front protection screen

Ideal for:

• Surgical imaging
• Endoscopic video

Resolution	1,920 x 1,200
Display size	24 inch
Pixel pitch	0.270mm x 0.270mm
Brightness	300 cd/m² (typical)
Contrast ratio	1,000:1 (typ.)
Response time	6 ms (gray to gray, average)
3D technology	Xpol® polarizing filter
Optimal 3D viewing distance	> 800 mm
Video input signals	**2D mode:** DVI-D, VGA, Composite, S-Video, Component RGBS/YPbPr, SDI In (x 2) **3D mode:** HD-SDI / 3G-SDI (x2), DVI-D
3D formats accepted	Simultaneous (Dual stream) on HD-SDI (x2) Line-by-line (Right on top) on DVI-D & 3G/SDI 1080p
Certification	MDD 93/42/EEC (Class 1), Amended by 2007/47/EC, EN 60601 3rd edition (2006), IEC 60601-1, 3rd ed. (2005), ANSI/AAMI ES60601-1, 3rd ed. (2005), CAN/CSA-C22.2 No 60601.1 (2008), IEC / EN 60601-1-2: 2007, EN55011 / CISPR11, FCC CFR 47 PART 15 AND 18/ Class B, ROHS-2, REACH, WEEE
Dimensions (W x H x D)	583 mm x 403 mm x 105 mm

INTERACTIVE
PATIENT CARE

CareConnex is Barco's fully integrated enterprise solution for interactive patient care. Addressing the key challenges hospitals are facing today, CareConnex supports a better patient experience and improves hospital efficiency and profitability.

INTERACTIVE PATIENT CARE

CareConnex
Interactive patient care enterprise solution

CareConnex is an enterprise software solution which improves patient care through an interactive user interface. Professional staff benefit from clinical and workflow efficiencies, while healthcare organizations can leverage additional revenue streams through triple play services.

CareConnex offers entertainment, information, education and professional medical services at the patient bedside. For additional services, UK operator Hospedia offers direct professional support for content and yield management. The CareConnex solution is delivered on a range of innovative Smart Terminals. The installation also includes back office servers, network integration and professional services.

Smart software   powered by   hospedia

PATIENT MEDIA	PATIENT ENGAGEMENT	CLINICAL WORKFLOW
QUAD-PLAY SERVICES	DIRECT INTERACTION	ALWAYS CONNECTED

PATIENT MEDIA — QUAD-PLAY SERVICES
· TV
· video-on-demand
· web
· radio
· telephony
· video conferencing

PATIENT ENGAGEMENT — DIRECT INTERACTION
· education, feedback
· meal ordering
· messaging
· nurse assist

CLINICAL WORKFLOW — ALWAYS CONNECTED
· single sign-on
· virtual desktop
· access to EMR
· access to HIS
· access to PACS

Smart hardware

ST-150B

15" SCREEN | TOUCH | COLOR | APPROVED | LOW NOISE

ST-185C

18.5" SCREEN | TOUCH | COLOR | APPROVED | LOW NOISE

ST-185B

18.5" SCREEN | TOUCH | COLOR | APPROVED | LOW NOISE

Smart accessories

keyboard

arm and wallbox

CUSTOMER SUPPORT SERVICES

Today more than ever, productivity and efficiency are of crucial importance. Barco protects your productivity through Image.Care: a package of dedicated services that optimize your uptime and keep your expenses under control. If you are looking for the ultimate peace of mind, Image.Care is the answer.

CUSTOMER SUPPORT SERVICES

Image.Care

Professional support anytime, anywhere

Barco has developed a **network of offices and partners across every continent** to provide professional regional assistance in your local language. With offices all over the world, Barco can support service options to suit most time-critical requirements.

Professional helpdesk

Barco's dedicated helpdesk hotlines are run by trained product specialists who ensure **immediate and real-time assistance** in many languages, and who are committed to delivering excellent customer service.

Hardware maintenance

Barco service engineers have an in-depth knowledge of your product and offer the highest level of repair services. For obsolete products, Barco aims to provide a 5-year servicing period starting from the end-of-life date.

Online services

For **quick services** around the clock, 365 days a year, customers can rely on My.barco.com and the eSupport helpdesk for technical questions, service requests, online training and much more. Additionally, Barco's online MediCal QAWeb service frees up IT resources, maximizes uptime and allows you to manage your global medical display assets.

On-site assistance and support

A team of service professionals offers the expert assistance you need at your facility. Additionally, Barco's service offering includes a variety of training programs brought to you by competent instructors with extensive product experience.

Contact us

Contact your local Barco support office by phone or email

www.barco.com/medical/contactus

Log on to e-support helpdesk

www.barco.com/support

Access 24/7 online self service portal

my.barco.com

Learn more about our all-inclusive online QA software service

www.barco.com/qaweb

SPECIFICATIONS	MDNC-2121	MDNC-3321	MDCC-4130	MDCC-6230
	Nio Color 2MP LED	**Nio Color 3MP LED**	**Coronis Fusion 4MP DL**	**Coronis Fusion 6MP LED**
Diagonal size	21.3"	21.3"	29.9"	30.4"
Screen technology	TFT AM LCD IPS	TFT AM LCD IPS	TFT AM-LCD Dual Domain IPS-Pro	TFT AM-LCD Dual Domain IPS-Pro
Active screen size (H x V)	432 x 324 mm (17.0 x 12.8")	433 x 325 mm (17.0 x 12.8")	641.2 x 404.8 mm (25.25 x 15.94")	654.4 x 408.6 mm (25.76 x 16.09")
Aspect ratio	4:3	4:3	16:10	16:10
Native resolution	1,600 x 1,200	2,048 x 1,536	2,560 x 1,600	3,280 x 2,048
Pixel pitch	0.270 x 0.270 mm	0.2115 x 0.2115 mm	0.2505 x 0.2505 mm	0.1995 x 0.1995 mm
Color / Grayscale	color	color	color	color
Viewing angle	178°	176°	170°	178°
Brightness	800 cd/m²	800 cd/m²	1,000 cd/m²	720 cd/m²
DICOM calibrated luminance	400 cd/m²	400 cd/m²	500 cd/m²	500 cd/m²
Contrast ratio	1,400:1	1,400:1	1,100:1	1,000:1
Video input signals	DVI-D Dual-Link / DisplayPort	DVI-D Dual-Link/DisplayPort	2x DVI-D Dual-Link	2x DVI-D Dual-Link/2x DisplayPort
Sensor technology	BLOS backlight sensor, front sensor	BLOS backlight sensor, front sensor	I-Guard front sensor	I-MST incl. I-Guard
Dimensions (W x H x D)	**With stand:** Portrait: 378 x 528 - 628 x 235 mm Landscape: 491 x 472 - 572 x 235 mm **Without stand:** 378 x 491 x 84 mm	**With stand:** Portrait: 382 x 520 - 620 x 250 mm Landscape: 488 x 463 - 563 x 250 mm **Without stand:** 375 x 488 x 100 mm	**With stand:** 731 x 580 - 676 x 265 mm **Without stand:** 731 x 485 x 141 mm	**With stand:** 731 x 580 - 676 x 265 mm **Without stand:** 731 x 485 x 141 mm
Certification	CE0120 (MDD 93/42/EEC; A1:2007/47/EC class II b product), CE - 2004/108/EC, IEC 60950-1:2005 + A1:2009 (2ND EDITION), IEC 60601-1:2005 + A1:2012, ANSI/AAMI ES 60601-1:2005 + C1:2009 + A1:2012, CAN/CSAC22.2 No. 60601-1(2008), DEMKO - EN 60601-1:2006, EN 60601-1-2:2007, CCC - GB9254-2008 + GB4943.1-2011 + GB17625.1-2003, KCC pending, VCCI, FCC class B, ICES-001 Level B, FDA 510(k) pending, RoHS	UL 60601-1 1st ed., CAN/CSA-C22.2 No. 601.1-M90, IEC 60601-1 2nd ed.:1988 + A1:1991 + A2:1995, IEC 60950-1:2001 2nd ed., CE - 2004/108/EC, CE - 93/42/EC, A1:2007/47/EC CLASS IIB, DEMKO - EN 60601-1, CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003, BSMI - CNS13438(95) + CNS14336(94), ICES-001 level B, KCC, VCCI, FCC class B, FDA 510, RoHs	UL 60601-1 1st ed., CAN/CSA-C22.2 No. 601.1- M90, IEC 60601-1 2nd ed.:1988 + A1:1991 + A2:1995, IEC 60950-1:2001 1st ed., CE - 89/336/EEC, CE - 93/42/EEC, DEMKO - EN 60601-1, BSMI - CNS13438(95) + CNS14336(94), VCCI, FCC class B, ICES-001 Level B, MDD class IIb, FDA 510k pending, RoHS	UL 60601-1 1st ed., CAN/CSA-C22.2 No. 601.1-M90, IEC 60601-1 2nd ed.:1988 + A1:1991 + A2:1995, IEC 60950-1:2001 1st ed., CE - 89/336/EEC, CE - 93/42/EEC, DEMKO - EN 60601-1, CCC - GB9254-1998 + GB4943-2001 + GB17625.1-2003,, BSMI - CNS13438(95) + CNS14336(94), VCCI, FCC class B, ICES-001 Level B, KETI (eK) Level B, BSMI, MDD class IIb, FDA 510k, RoHS
Recommended graphics controller	MXRT-5500	MXRT-5500	MXRT-5500	MXRT-5500
Supported graphics controllers	MXRT-2500, MXRT-5550, MXRT-7500	MXRT-5550, MXRT-7500	MXRT-2500, MXRT-5550, MXRT-7500	MXRT-5550, MXRT-7500
MediCal QAWeb	✓	✓	✓	✓
'Fusion' desktop	-	-	✓	✓
I-Guard	-	-	✓	✓
Ambient Light Compensation	-	-	✓	✓
Uniformity Correction	✓ (ULT)	✓ (ULT)	✓ (ULT)	✓ (ULT)
Protective front cover	✓	✓	✓	✓
Warranty	5 years	5 years	5 years	5 years

Nio Color 2MP LED is not yet commercially available in the US.

E-3620 MA	MDNG-6121	MDCG-3221	MDCG-5121	MDCG-10130
Nio 3MP	Nio 5MP	Coronis 3MP LED	Coronis 5MP	Coronis Fusion 10MP
20.8″	21.3″	21.3″	21.3″	30″
TFT AM-LCD Dual Domain IPS	TFT AM-LCD Dual Domain IPS	TFT AM-LCD Dual Domain IPS	TFT AM-LCD Dual Domain IPS	TFT AM-LCD IPS WideView
423.9 x 318 mm (16.7 x 12.5″)	432 x 324 mm (17.0 x 12.8″)	433 x 325 mm (17.0 x 12.8″)	422.4 x 378 mm (16.6 x 13.3″)	645.1 x 403.2 mm (25.40 x 15.87″)
4:3	4:3	4:3	5:4	16:10
2,048 x 1,536	2,800 x 2,100	2,048 x 1,536	2,560 x 2,048	4,096 x 2,560
0.207 x 0.207 mm	0.154 x 0.154 mm	0.2115 x 0.2115 mm	0.165 x 0.165 mm	0.158 x 0.158 mm
grayscale	grayscale	grayscale	grayscale	grayscale
170°	170°	178°	170°	170°
1,000 cd/m²	1,100 cd/m²	1,700 cd/m²	900 cd/m²	1,250 cd/m²
500 cd/m²	500 cd/m²	600 cd/m²	500 cd/m²	500 cd/m²
900:1	1,000:1	1,400:1	800:1	950:1
DVI-D Dual-Link	DVI-D Dual-Link	DVI-D Dual-Link/DisplayPort	DVI-D Dual-Link/DisplayPort	2x DVI/2x DisplayPort
BLOS backlight sensor	BLOS backlight sensor	I-MST incl. I-Guard	I-Guard front sensor	I-Guard front sensor
With stand:Portrait: 382 x 577.4 x 249 mm Landscape: 488 x 471.5 x 249 mm Without stand: 382 x 488 x 114 mm	With stand: Portrait: 382 x 577.4 x 249 mm Landscape: 488 x 471.5 x 249 mm Without stand: 382 x 488 x 114 mm	With stand: Portrait: 369 x 520 - 620 x 285 mm Landscape: 477 x 463 - 563 x 285 mm Without stand: 375 x 488 x 100 mm	With stand: Portrait: 408 x 582 x 250 mm Landscape: 492.5 x 507.5 x 250 mm Without stand: 408 x 492.5 x 114 mm	With stand: 731 x 580 - 670 x 270 mm Without stand: 731 x 485 x 125 mm
UL 60601-1 1st ed., CAN/ CSA-C22.2 No. 601.1-M90, UL 60950-1 1st ed., CSA C22.2 No. 60950-1-03 1st ed., IEC 60601-1 2nd ed.:1988 + A1:1991 + A2: 1995, IEC 60950-1:2001 1st ed., CE - 2004/108/EC, CE - 93/42/EC, A1:2007/47/EC CLASS IIB, DEMKO - EN 60601-1, DEMKO - EN 60950-1, CCC - GB9254-1998 + GB4943-2001 + GB17625.1-2003, VCCI, FCC class B, BSMI, KETI, FDA 510K, RoHS	UL 60601-1 1st ed., CAN/ CSA-C22.2 No. 601.1-M90, IEC 60601-1 2nd ed.:1988 + A1:1991 + A2:1995, IEC 60950-1:2001 1st ed., CE - 2004/108/EC, A1:2007/47/EC CLASS IIB, DEMKO - EN 60601-1, CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003, BSMI - CNS13438(95) + CNS14336(94), KCC, VCCI, FCC class B, FDA 510K, RoHS	UL 60601-1 1st ed., CAN/CSA-C22.2 No. 601.1-M90, UL 60950-1 1st ed., CSA C22.2 No. 60950-1-03 1st ed., IEC 60601-1 2nd ed.:1988 + A1:1991 + A2:1995, IEC 60950-1:2001 1st ed., CE - 2004/108/EC, CE - 93/42/EC, A1:2007/47/EC CLASS IIB, DEMKO - EN 60601-1, CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003, VCCI, FCC class B, BSMI, FDA 510(k), RoHs	UL 60601-1 1st ed., CAN/CSA-C22.2 No. 601.1-M90 IEC 60601-1 2nd ed.:1988 + A1:1991 + A2:1995, IEC 60950-1:2001 1st ed., CE - 2004/108/ EC, DEMKO - EN 60601-1, CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003, KCC, VCCI, FCC class A, FDA, VCCI, RoHs	UL 60601-1 1st ed., CAN/CSA-C22.2 No. 601.1-M90, IEC 60601-1 2nd ed.:1988 + A1:1991 + A2:1995, CE - 89/336/EEC, CE - 93/42/EEC, DEMKO - EN 60601-1, BSMI- CNS13438(95) + CNS14336(94), VCCI, FCC class B, ICES-001 Level B, MDD class IIb, FDA 510(k), RoHS
MXRT-5500	MXRT-5500	MXRT-5500	MXRT-5500	MXRT-5500
MXRT-5550, MXRT-7500	MXRT-5550, MXRT-7500	MXRT-5550, MXRT-7500	MXRT-5550, MXRT-7500	MXRT-5550, MXRT-7500
✓	✓	✓	✓	✓
-	-	-	-	✓
-	-	✓	✓	✓
-	-	✓	✓	✓
✓	✓	✓ (PPU)	✓ (ULT)	✓ (ULT)
✓	✓	✓	✓	✓
5 years	5 years	5 years	5 years	5 years

Advanced visualization screen content courtesy of Toshiba Medical Systems Europe.

SPECIFICATIONS	MAMMOGRAPHY DISPLAYS				SURGICAL
	MDMG-5121	MDMG-5221			
	Coronis 5MP Mammo	Mammo Tomosynthesis 5MP	MDSC-1119	MDSC-2224	MDSC-2226
Diagonal size	21.3"	21.3"	19"	24"	26"
Screen technology	TFT AM-LCD Dual Domain IPS	TFT AM-LCD Dual Domain IPS	TFT AM LCD	TFT AM LCD/S-IPS/ LED backlight	TFT AM LCD/IPS-Pro/ LED backlight
Active screen size (H x V)	422.4 x 338 mm (16.6 x 13.3")	337.9 x 422.4 mm (13.3 x 16.6")	301 x 376 mm (11.9 x 14.8")	518 x 324 mm (20.4 x 12.7")	576 x 324 mm (22.7 x 12.8")
Aspect ratio	5:4	4:5	5:4	16:10	16:9
Native resolution	2,560 x 2,048	2,048 x 2,560	1,280 x 1,024	1,920 x 1,200	1,920 x 1,080
Pixel pitch	0.165 x 0.165 mm	0.165 x 0.165 mm	0.294 x 0.294 mm	0.270 x 0.270 mm	0.3 x 0.3 mm
Color / Grayscale	grayscale	grayscale	color	color	color
Viewing angle	176°	176°	178°	178°	178°
Brightness	1,600 cd/m^2	2,100 cd/m^2	280 cd/m^2 (full white)	350 cd/m^2 (full white)	450 cd/m^2 (full white)
DICOM calibrated luminance	600 cd/m^2	1,000 cd/m^2	<280 cd/m^2 (typ.)	-	<400 cd/m^2 (typ.)
Contrast ratio	900:1	950:1	600:1	1,000:1	1,400:1
Video input signals	DVI-D Dual-Link	DisplayPort, DVI	DVI-I, VGA (D15), RGBS (4BNC), S-video, Composite video, Component video (4BNC), DVI fiber optical in, SDI/HD-SDI (BNC) in/out (optional), DVI fiber optic in (optional), PAL, SECAM, NTSC 3.58 & 4.43, HDTV (1080i, 720p, 480i/p, 1030i)	DVII Single-Link (Digital & Analog – HDMI video support with HDCP), Component Video RGBS / YPbPr (4xBNC), S-video (4-pin Mini DIN), Composite video (1xBNC), 3G-SDI (1xBNC), DisplayPort (VESA std 1.1a), Optional: integrated Nexxis network adapter	DVI-I Single link, RGBS/YPbPr (4xBNC), S-video (4-pin Mini DIN), Composite video (1xBNC), 3G-SDI (1xBNC – 2nd 3G-SDI option), VGA (on DVI-I), DisplayPort (VESA std 1.2) Options: DDI (Dual Digital Input): additional DVI-D and 3G-SDI input, Nexxis MNA-120 decoder
Sensor technology	I-Guard front sensor	I-Guard front sensor	-	-	BLOS backlight sensor
Dimensions (W x H x D)	With stand: Portrait: 408 x 582 x 250 mm Landscape: 492.5 x 507.5 x 250 mm Without stand: 408 x 492.5 x 114 mm	With stand: 392 x 558 x 250 mm Without stand: 392 x 356.4 x 78.5 mm	Without stand: 429.5 x 356.4 x 78.5 mm With stand: 429.5 x 484 x 223 mm	595 x 414 x 84 mm	633 x 411 x 90 mm
Certification	UL 60601-1 1st ed., CAN/CSA-C22.2 NO. 601.1-M90, IEC 60601-1 2nd ed.:1988 + A1:1991 + A2:1995, IEC 60950-1:2001 1st ed., CE - 2004/108/EC, CE - 93/42/EC, A1:2007/47/EC CLASS IIB, DEMKO - EN 60601-1, CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003, BSMI - CNS13438(95) + CNS14336(94), KCC, VCCI, FCC class B; FDA 510(k), RoHs	UL 60601-1 2nd ed. CAN/CSA-C22.2 NO. 601.1-M90:2005, IEC 60601-2nd ed.:1988 + A1:1991 + A2:1995, IEC 60950-1:2005 2nd ed., CE - 2004/108/EC, CE - 93/42/EC, A1:2007/47/EC CLASS IIB, DEMKO - EN 60601-1, CCC - GB9254-2008 + GB4943-2001 + GB17625.1-2003, BSMI - CNS13438(95) + CNS14336(94), KCC, VCCI, FCC class B; FDA 510(k), RoHs	UL 60601-1, EN60601-1, EN60601-1-2, c-UL, PSE, FCC-B, ICES-001, VCCI, CE, CCC, KETI	IEC60601 3rd Edition, CE, C-UL-US, DEMKO, CCC, IEC60601-1, UL60601-1, CSA-C22.2 nr 601-1-M90, IEC60601-1-2, EN55011 /CISPR 11, FCC CFR47 part 15 & 18/Class A Environment: ROHS-2, REACH, WEEE compliant	IEC60601 3rd ed., CE, C-UL-US, DEMKO, IEC60601-1, UL60601-1, CSA-C22.2 nr 601-1-M90, EMC, IEC60601-1-2, EN55011 /CISPR 11, FCC CFR47 part 15 & 18/Class B, RoHs-2, REACH, WEEE compliant
Recommended graphics controller	MXRT-7500	MXRT-7500	-	-	-
Supported graphics controllers	MXRT-5500, MXRT-5550		-	-	-
MediCal QAWeb	✓	✓	-	-	-
'Fusion' desktop	-	-	-	-	-
I-Guard	✓	✓	-	-	-
Ambient Light Compensation	-	✓	-	-	-
Uniformity Correction	✓	✓	-	-	-
Protective front cover	✓ (PPU)	✓ (PPU)	✓	✓	✓
Warranty	5 years	5 years	3 years	3 years	3 years

	MDSC-2242	MDSC-8258	E240H3
	42″	58″	24″
	TFT AM LCD/LED backlight	LCS MVA LCD	TFT AM LCD/S-IPS
	930 x 523 mm (36.6 x 20.6")	1,244 x 700 mm (48.9 x 27.5")	518 x 324 mm (20.4 x 12.7")
	16:9	16:9	16:10
	1,920 x 1,080	3,840 x 2,160	1,920 x1,200
	0.485 x 0.485 mm	0.324mm x 0.324mm	0.270mm x 0.270mm
	color	color	color
	178°	176°	178°
	500 cd/m^2 (full white)	450 cd/m^2 (full white)	300 cd/m^2 (full white)
	-	350 cd/m^2 (max.)	-
	4,000:1	1,200:1	1,000:1
	DVI-I Single-Link (Digital & Analog – HDMI video support with HDCP), Component Video RGBS / YPbPr (4xBNC), S-video (4-pin Mini DIN), Composite video (1xBNC), 3G-SDI (1xBNC), DisplayPort (VESA std 1.1a), Optional: integrated Nexxis network adapter	Quad Single-Link DVI-D (HD) or Dual Dual-Link DVI, selectable	DVI-D In/Out, VGA, Composite In/Out, S-Video In/Out, Component RGBS/YPbPr (4BNC), 3G-SDI In/Out (x 2)
	-	-	BLOS backlight sensor
	1015 x 608 x 90 mm	1350 x 814 x 150 mm	583 x 403 x 105 mm
	EC60601 3rd Edition, CE, C-UL-US, DEMKO, IEC60601-1, UL60601-1, CSA-C22.2 nr 601-1-M90, IEC60601-1-2, EN55011 /CISPR 11, FCC CFR47 part 15 & 18/Class A, ROHS-2, REACH, WEEE compliant	IEC 60601-1, IEC 60601-1-2, EN 55011 - Class A, CISPR11 - Class A, EN55024, C-UL-US, FCC, CE	MDD 93/42/EEC (Class 1), Amended by 2007/47/EC, EN 60601 3rd edition (2006), IEC 60601-1, 3rd ed. (2005), ANSI/AAMI ES60601-1, 3rd ed. (2005), CAN/CSA-C22.2 No 60601.1 (2008), IEC / EN 60601-1-2: 2007, EN55011 / CISPR11, FCC CFR 47 PART 15 AND 18/Class B, ROHS-2, REACH, WEEE
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	✓	✓ (Full version)	✓
	2 years	2 years	2 years

SPECIFICATIONS	CLINICAL DISPLAYS					DENTAL DISPLAYS	
	MDRC-1119 (TS)	MDRC-2122 BL	MDRC-2122 WP	MDRC-2224 BL	MDRC-2224 WP	MDRC-2122 WP	MDRC-2224 WP
	MDRC-1119 (TS)	**Eonis 22" black**	**Eonis 22" white**	**Eonis 24" black**	**Eonis 24" white**	**Eonis 22" white**	**Eonis 24" white**
Diagonal size	19"	21.5"	21.5"	24.1"	24.1"	21.5"	24.1"
Native resolution	1,280 x 1,024	1,920 x 1,080	1,920 x 1,080	1,920 x 1,200	1,920 x 1,200	1,920 x 1,080	1,920 x 1,200
Backlight	CCFL	LED	LED	LED	LED	LED	LED
Brightness	300 cd/m^2	250 cd/m^2	250 cd/m^2	300 cd/m^2	300 cd/m^2	250 cd/m^2	300 cd/m^2
Contrast ratio	1,300:1	1,000:1 typical	1,000:1 typical	1,000:1 typical	1,000:1 typical	1,000:1 typical	1,000:1 typical
Viewing angle	178°	178° (IPS)	178° (IPS)	178° (IPS)	178° (IPS)	178° (IPS)	178° (IPS)
Video input signals	DVI, VGA (DB15)	VGA, Display-Port, HDMI	VGA, Display-Port, HDMI	VGA, Display-Port, HDMI	VGA, Display-Port, HDMI	VGA, Display-Port, HDMI	VGA, Display-Port, HDMI
Sensor	BLOS backlight sensor	front consistency sensor	front consistency sensor	front consistency sensor	front consistency sensor	front consistency sensor	front consistency sensor
Dimensions (W x H x D)	418 x 535 - 425 x 223 mm	507 x 376 x 166 mm	507 x 376 x 166 mm	560.4 x 533 x 164.5 mm	560.4 x 533 x 164.5 mm	507 x 376 x 166 mm	560.4 x 533 x 164.5 mm

SPECIFICATIONS	ST-150B	ST-185B	ST-185C
Diagonal size	15"	18.5"	18.5"
Native resolution	1,024 x 768	1,366 x 768	1,366 x 768
Backlight	LED	LED	LED
Dimensions	384 x 354 x 70 mm	478 x 331 x 55.5 mm	456 x 339 x 67 mm
Color/grayscale	Barco White	Cool Gray 2C	Barco White
CPU	Intel Atom Cedar Trail D2550 - 1.86 GHz	Intel Atom N270 - 1.60 GHz	Intel Atom Cedar Trail D2550 - 1.86 GHz
HDD drive	320 GB (optional)	320 GB (optional)	320 GB (optional)
SSD drive	8, 16, or 32 GB (optional)	8, 16, or 32 GB (optional)	8, 16, or 32 GB (optional)
System memory	DDR3 1066, 2 or 4 GB	DDRII 667/533/400, 2 or 4 GB	DDR3 1066, 2 or 4 GB
Operating system	Linux, Windows® 7 Embedded	Linux, Windows® 7 Embedded	Linux, Windows® 7 Embedded
Connectivity	LAN (x1), USB 2.0 (x4), Headphone jack (x2), Microphone jack (x1), Handset connector, DVI-I out, Programmable GPIO	LAN (x1), USB 2.0 (x4), Headphone jack (x2), Handset connector, VGA-out	LAN (x1), USB 2.0 (x4), Headphone jack (x2), Microphone jack (x1), Handset connector, DVI-I out, Programmable GPIO, Service Call (optional)
Certifications	EN60950/UL60601, FCC-Class A, CE	EN/UL60601, EN60950, FCC-Class A, CE	EN60950/UL60601, FCC-Class A, CE

ICONS EXPLAINED

Icon	Description
1 MP	1 MegaPixel resolution (1,280 x 1,024)
2 MP	2 MegaPixel resolution (1,600 x 1,200)
3 MP	3 MegaPixel resolution (1,536 x 2,048)
4 MP	4 MegaPixel resolution (2,560 x 1,600)
5 MP	5 MegaPixel resolution (2,048 x 2,560 or 2,096 x 2,800)
6 MP	6 MegaPixel resolution (3,280 x 2,048)
8 MP	8 MegaPixel resolution (3,840 x 2,160)
10 MP	10 MegaPixel resolution (4,096 x 2,560)
Full HD 1920x1080p	Full High definition resolution (1,920 x 1,080)
Quad HD 3840 x 2160	Quad High definition resolution (3,840 x 2,160)
5Y WARRANTY	Standard 5-year warranty
10 BIT	10 bit Look Up Table
12 BIT	12 bit Look Up Table
30 BIT	30 bit Look Up Table
19" SCREEN	19-inch screen diagonal
20" SCREEN	20-inch screen diagonal
21" SCREEN	21-inch screen diagonal
24" SCREEN	24-inch screen diagonal

Icon	Description
26" SCREEN	26-inch screen diagonal
30" SCREEN	30-inch screen diagonal
42" SCREEN	42-inch screen diagonal
56" SCREEN	56-inch screen diagonal
LED BACKLIGHT	LED backlight
ALC	Integrated Ambient Light Compensation
BLOS	Backlight Output Stabilization
COLOR	Color display
GRAY	Grayscale display
COVER	Anti-reflective protective front cover
GLASS	Anti-reflective protective front glass
DL	Diagnostic Luminance (Ultra bright display)
DICOM	Compliant with DICOM specifications
DURALIGHT	Long-lifetime backlights
GREEN	Environmental-friendly product
FUSION	Seamless wide-screen desktop
I-GUARD	Integrated front-of-screen sensor
FRONT SENSOR	Front-of-screen sensor

Icon	Description
MAMMO	Certified for mammography imaging
APPROVED	Approved for medical use
OSD	On Screen Display
PPU	Per Pixel Uniformity correction
QAWeb	MediCal QA software included
PIVOT	Usable in portrait and landscape mode
TOUCH	Touch screen interface
ULT	Uniform Luminance technology
USB	Integrated USB connector
WIDE VIEW	Exceptionally wide viewing angle
SMOOTH GRAY	Ultra-smooth grayscale precision
WIDE SCREEN	Widescreen aspect ratio
DISPLAY PORT	DisplayPort interface
MULTI-SENSOR	Multiple built-in sensors
TOMO	Cleared for breast tomosynthesis
I-LUMINATE	'Hot light' button
RAPIDFRAME	High-speed cine imaging without blur
CONSISTENCY	Front consistency sensor

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ABOUT BARCO

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Avda. Fuente Nueva, 12. 28703 San Sebastián de los Reyes - Madrid - España
Tel.: +34 916588760. Fax: +34 916588769
E-mail: marketing@cartronic.es
www.grupocartronic.com
www.linkedin.com/company/cartronic-group

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