Barco Healthcare

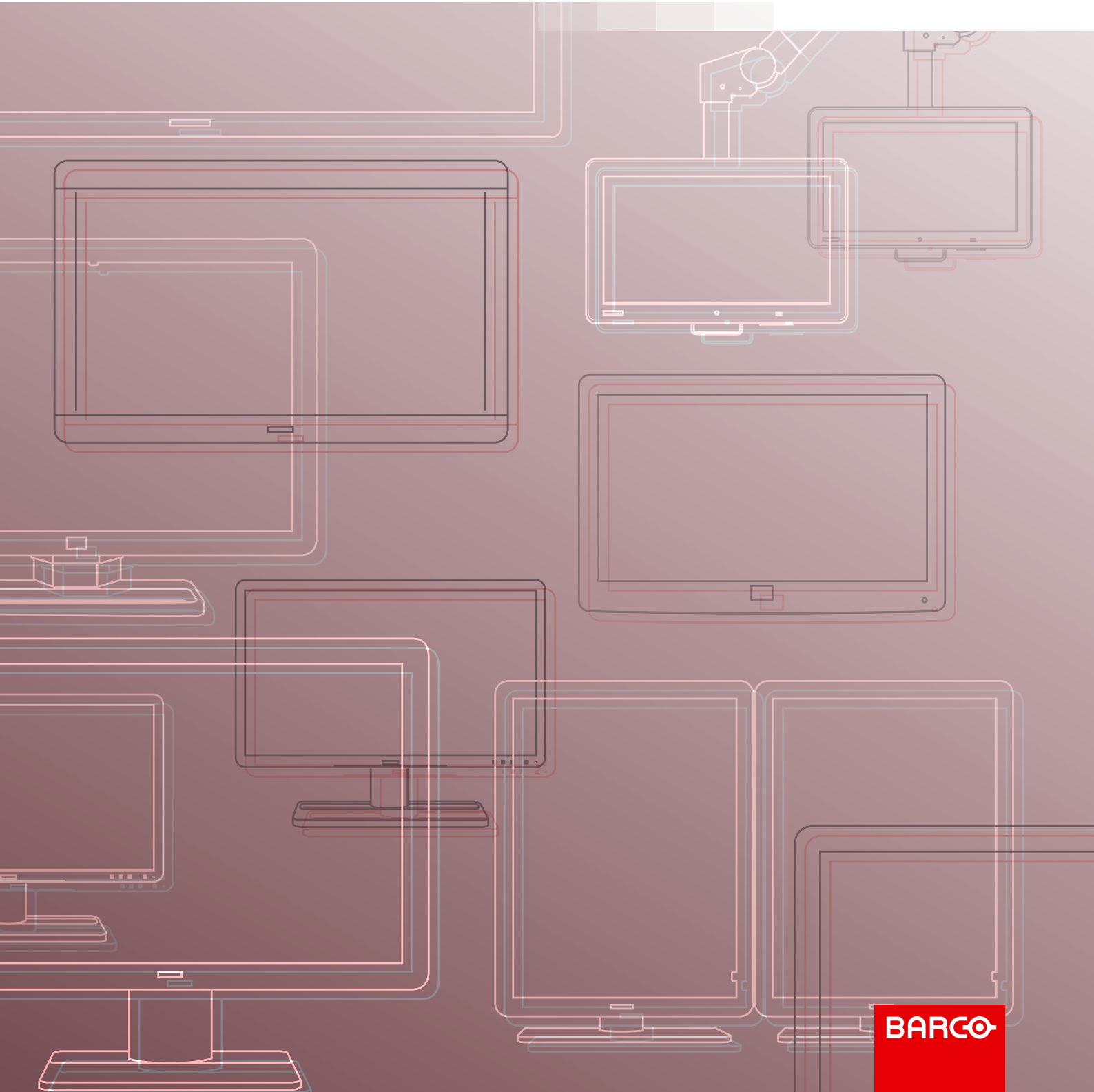## Medical solutions portfolio

BARCO

About Barco

Focused on transforming the delivery of care, Barco connects healthcare professionals at every patient touch point, from the imaging room, to radiology, through specialist consultations and in the surgical suite. We offer a network of medical imaging solutions that deliver the complete picture to support more informed decisions, when and where it matters most.
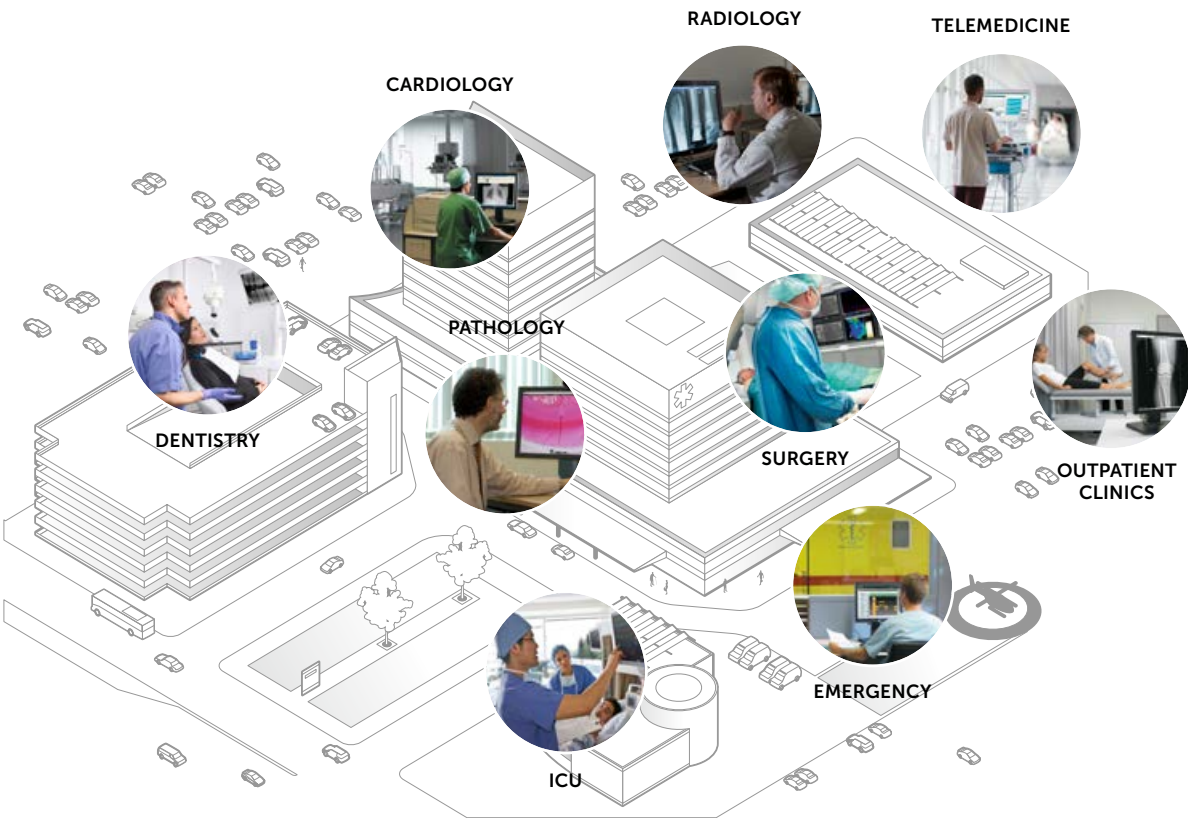
Recognized as the Visionary Innovation Leader in medical displays by Frost & Sullivan

Diagnostic displays

sales@datadistributing.com | www.datadistributing.com | 800.635.6779

More than a medical display

Increasing image volumes, the growing complexity of studies, and physical discomfort while reading are the three biggest challenges radiologists face today. That is the conclusion of a 2014 survey conducted by The MarkeTech Group. The solutions? Improved image quality (91%), a more efficient workflow (77%), and better display ergonomics (70%), as indicated by radiologists themselves.

We are able to provide capabilities that can improve the reading experience in all aspects: speed, accuracy, intuitiveness, flexibility and ergonomics. How? By offering a complete imaging solution – high-quality display, ultra-fast controller for fast image loading and manipulation and automated calibration & QA to ensure peak performance and uptime – in which all components function smoothly as a unified system.

Barco's integrated technology platform enables us to develop a unique set of Intuitive Workflow features resulting in a heightened user experience. Only Barco display systems offer this value-added toolset, which adds a new dimension to radiologists' workflow by streamlining frequent tasks with automated features. Designed to help you speed through your workload with ease, these built-in, easy-to-use functions appear at your command, seamlessly paving the way for effortless productivity and working comfort.

Intuitive Workflow tools line-up

Click icons for video >

	PROFILES	SCREENSHOT	AAM	VIRTUALVIEW	SPOTVIEW	TOUCH PAD	DIMVIEW	SMARTCURSOR	FINDCURSOR	SINGLEVIEW	CLONEVIEW
Coronis Uniti	✓	✓	✓	✓	✓[3]	✓	✓	✓	✓	✓	✓
Coronis Fusion	✓	✓	✓[5]	✓	✓[2]	✓[4]	✓	✓	✓	✓	✓
Coronis	✓	✓		✓	✓[1]		✓	✓	✓		✓
Nio	✓	✓		✓	✓		✓	✓	✓		✓
Eonis	✓	✓		✓			✓	✓	✓		✓

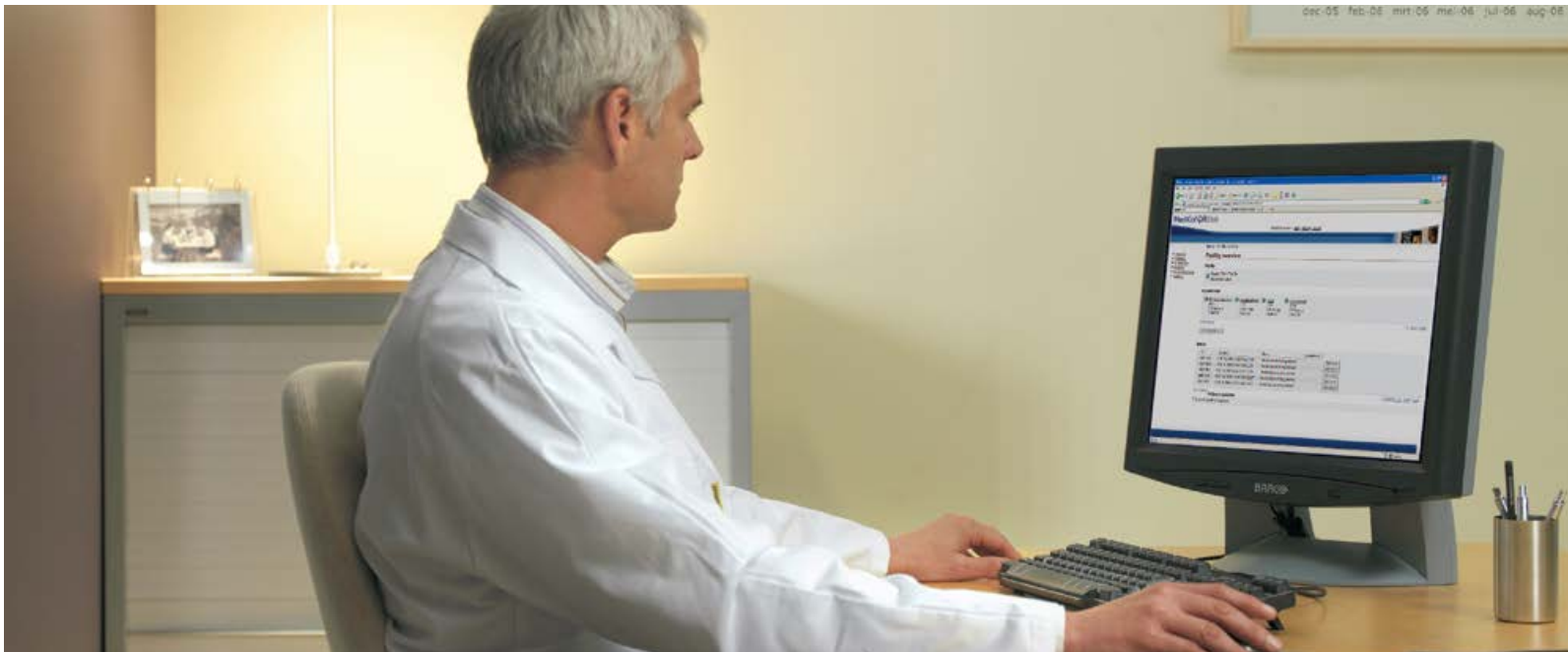1   MDCG-5221, MDCG-3221
2   MDCC-4230, MDCC-4330, MDCC-6330 and MDCC-6430
3   Enables I-Luminate during SpotView
4   Optional on 4MP and 6MP Coronis Fusion Displays
5   Luminance adjustment only; color profile switching only available on Coronis Uniti

MediCal QAWeb

The industry's first secure online cloud-based service for calibration and Quality Assurance of medical displays. This all-inclusive secured system is your guarantee for consistent image quality and uptime of all PACS display systems, asset and fleet management throughout the healthcare enterprise.

What makes MediCal QAWeb so unique?

> All-inclusive system that provides cost-conscious service options for maximum workstation uptime
> Extended cloud-based remote calibration & QA support
> Seamless implementation of regional QA guidelines
> Automatic alerts & problem-solving
> Global fleet and asset management services
> Full audit trail and budget reporting
> MQSA and regulatory reports
> Compatible with all Barco diagnostic and clinical review displays
> Compatible with non-Barco displays

Download MediCal QAWeb Agent for free

Coronis Uniti®

mammography   radiology

| 12 MP | 33" SCREEN | STEADYCOLOR | COLOR PPU | QAWeb | I-GUARD | MULTI-SENSOR | SMOOTHGRAY | ALC | I-LUMINATE | DURALIGHT | TOMO | RAPIDFRAME | FILM CLIP | TOUCH PAD | 5Y WARRANTY |

The only diagnostic display system explicitly designed for both PACS and multimodality breast imaging. Unique in its representation of calibrated color and grayscales. Remarkable in its 2D and 3D capabilities. Capable of both static and dynamic imaging.

Your benefits

> One display for all images to unify your workflow
> 12% more pixels to display more or larger images
> The brightest display on the market - delivers exceptional brightness resulting in more JNDs
> Proven 10% higher detection when scrolling digital breast tomosynthesis images[1]
> Up to 30% increased detection probability thanks to patented I-Luminate technology[2]
> Optimized for the standard field of vision and low reflection to minimize eye-fatigue
> Intuitive workflow tools selectively dim/boost and focus light for closer inspection
> Cleared for multimodality breast imaging, incl. breast tomosynthesis, 3D mammography, breast MRI, breast ultrasound, CT and ultrasound, including vascular and gynecological ultrasound

12 ways Coronis Uniti helps increase breast cancer detection

Read more

Meet Coronis Uniti

Models and options

Coronis Fusion

radiology

| 30" SCREEN | FUSION | COLOR PPU | QAWeb | I-GUARD | MULTI-SENSOR | DL | SMOOTHGRAY | IPS Pro DISPLAY | 5Y WARRANTY |

The first-ever diagnostic Fusion display system on the market, Coronis Fusion combines multiple images or studies on a single display. It can be used as a single, widescreen display or two bezel-free heads to view multiple images or studies.

Your benefits

> Highest calibrated luminance in the 6MP display range today
> IPS-Pro wider viewing angle and higher contrast ratio than competing LCD technologies
> 33% more workspace to display more images
> Uniform color reproduction across the entire screen (100%)[1], from center to edge (Color PPU)
> Boosts reading productivity by up to 19%[3]
> Less eye-strain during long reading sessions

Coronis Fusion by numbers

Read more

Models and options
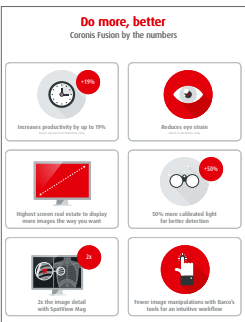
Coronis

mammography radiology

21" SCREEN | QAWeb | I-GUARD | MULTI-SENSOR | SMOOTHGRAY | PPU | ALC | **5Y** WARRANTY

A family of diagnostic displays ideal for high-quality imaging of diagnostic modalities. Engineered down to the smallest detail to ensure perfect luminance and DICOM compliance.

Your benefits

> The brightest 3MP display on the market exceeding ACR guidelines
> Exceptional local contrast optimized for faster reading
> Subtle details are more conspicuous for easy detection (Per Pixel Uniformity)
> Real-time intervention-free calibration and QA
> Factory-fit glass front cover reduces reflections (<0.5%)
> Comes with I-Luminate to aid in seeing subtle image details

Models and options

Nio

mammography radiology

21" SCREEN | FRONT SENSOR | QAWeb | ULT | BLOS | ALC | COVER | PIVOT | **5Y** WARRANTY

A family of diagnostic displays that bring dependable diagnostic imaging to its true potential. Nio's proven technologies ensure diagnostic confidence at all times, making it the standard for the radiology reading room.

Your benefits

> Most efficient dual-head option on the market
> Highest brightness and contrast - luminance ratio exceeds ACR guidelines
> Minimal image manipulations – less windowing, leveling, zooming & panning
> More DICOM JNDs to see more subtle details quicker
> Uniform image rendering center to edge
> Factory-fit front cover reduces reflection and improves visible contrast

Read more

Models and options

	2MP	3MP		4MP	5MP			6MP	12MP
	MDNC-2221	MDNC-3421	MDCG-3221	MDCC-4330	MDNG-5221	MDNC-6121	MDCG-5221	MDCC-6430	MDMC-12133
SPECIFICATIONS	**Nio Color 2MP**	**Nio Color 3MP**	**Coronis 3MP**	**Coronis Fusion 4MP**	**Nio 5MP**	**Nio Color 5MP**	**Coronis 5MP**	**Coronis Fusion 6MP**	**Coronis Uniti®**
Warranty	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years	5 years
Active screen size (H x V)	432 x 324 mm (17.0 x 12.8")	433 x 325 mm (17.0 x 12.8")	325 mm x 433 mm (12.8" x 17.1")	654 x 409 mm (25.8 x 16.1")	422.4 mm x 337.9 mm (16.5 x 13.3")	433 x 325 mm (17 x 12.8")	422.4 mm x 337.9 mm (16.5 x 13.3")	654 x 409 mm (25.8 x 16.1")	708.1 x 472.1 mm (27.8 x 18.6")
Screen technology	TFT AM Color LCD IPS	TFT AM Color LCD IPS	UA-SFT (Ultra Advanced Super Fine Technology)	IPS-TFT color LCD	a-si TFT active matrix dual domain IPS	a-si TFT active matrix dual domain IPS	a-si TFT active matrix dual domain IPS	IPS-TFT color LCD	IPS
Diagonal size	540 mm (21.3")	540 mm (21.3")	540 mm (21.3")	772 mm (30.4")	540 mm (21.3")	540 mm (21.3")	540 mm (21.3")	772 mm (30.4")	853.44 mm (33.6")
Aspect ratio	4:3	4:3	4:3	16:10	5:4	3:4	5:4	16:10	3:2
Native resolution	2MP (1600 x 1200)	3MP (2048 x 1536)	3MP (2048 x 1536)	4MP (2560 x 1600)	5MP (2560 x 2048)	5.8MP (2100 x 2800)	5MP (2560 x 2048)	Native 6MP (3280 x 2048) Configurable to 2 x 3MP+ (1640 X 2048) Configurable to 2 x 3MP (1536 X 2048)	4200 x 2800
Luminance (DICOM calibrated)	800 cd/m² (400 cd/m²)	900 cd/m² (500 cd/m²)	1700 cd/m² (600 cd/m²)	1050 cd/m² (600 cd/m²)	1020 cd/m² (500 cd/m²)	1000 cd/m² (500 cd/m²)	1200 cd/m² (600 cd/m²)	1050 cd/m² (600 cd/m²)	2100 cd/m² (1000 cd/m²)
Contrast ratio	1400:1	1400:1	1400:1	1500:1	1200:1	1400:1	1200:1	1500:1	1200:1
Screen protection	Factory fit protective, non-reflective glass cover	Factory fit protective, non-reflective glass cover	Factory fit protective, non-reflective glass cover	Factory fit protective, non-reflective glass cover	Factory fit protective, non-reflective glass cover	Factory fit protective, non-reflective glass cover	Factory fit protective, non-reflective glass cover	Factory fit protective, non-reflective glass cover	Factory fit protective, non-reflective glass cover
Sensor technology	Integrated front-of-screen sensor, BLOS, ALC presets	Integrated front-of-screen sensor, BLOS, ALC presets	Integrated I-Guard front-of-screen photometer sensor, Intelligent Multi-Sensor Technology, ALC	Integrated I-Guard front-of-screen color sensor, Intelligent Multi-Sensor Technology, ALC	Integrated front-of-screen sensor, BLOS, ALC	Integrated front-of-screen sensor, BLOS, ALC	Integrated I-Guard front-of-screen photometer sensor, ALC	Integrated I-Guard front-of-screen photometer sensor, Intelligent Multi-Sensor Technology, ALC	Integrated color I-Guard front-of-screen photometer sensor, Intelligent Multi-Sensor Technology, ALC
Diagnostic imaging technology	ULT, MXRT, Intuitive Workflow Tools	ULT, MXRT, Intuitive Workflow Tools	PPU, DuraLight, MXRT, Intuitive Workflow Tools	Color PPU, SmoothGray, MXRT, Intuitive Workflow Tools with optional touchpad	ULT, MXRT, Intuitive Workflow Tools	ULT, MXRT, Intuitive Workflow Tools, Steady-Color, SteadyGray	PPU, SmoothGray, DuraLight, I-Luminate, MXRT, Intuitive Workflow Tools	Color PPU, SmoothGray, MXRT, Intuitive Workflow Tools with optional touchpad	SteadyColor, Color PPU, I-Luminate, RapidFrame, SmoothGray, DuraLight, Clear/BlueBase, SoftGlow, Filmclip, MXRT, Intuitive Workflow Tools with Touchpad
Video input signals	DVI-D Dual Link, DisplayPort	DVI-D Dual Link, DisplayPort	DVI-D Dual Link, DisplayPort	DVI-D Dual Link (2x), DisplayPort (2x)	DVI-D Dual Link, DisplayPort	DVI-D Dual Link, DisplayPort	DVI-D Dual Link, DisplayPort	DVI-D Dual Link, DisplayPort	DP 1.2
Medical device regulations	FDA (510)k: Digital Radiography Class II EC: Diagnostic or therapeutical radiology, Class IIb	FDA (510)k: Digital Radiography Class II EC: Diagnostic or therapeutical radiology, Class IIb	FDA (510)k: Digital Radiography Class II EC: Diagnostic or therapeutical radiology, Class IIb	FDA (510)k: Digital Radiography Class II EC: Diagnostic or therapeutical radiology, Class IIb	FDA (510)k Digital Radiography & Mammography Class II EC: Diagnostic or therapeutical radiology, Class IIb	FDA (510)k: Digital Radiography & Mammography Class II, including breast tomosynthesis EC: Diagnostic or therapeutical radiology, Class IIb	FDA (510)k: Digital Radiography & Mammography Class II EC: Diagnostic or therapeutical radiology, Class IIb	FDA (510)k: Digital Radiography Class II EC: Diagnostic or therapeutical radiology, Class IIb	FDA (510)k: Digital Radiography multi-modality breast imaging, incl. breast tomosynthesis, 3D mammography, breast MRI, breast ultrasound, CT and ultrasound, including vascular and gynecological ultrasound Class II EC: Diagnostic or therapeutical radiology, Class IIb
Package includes	Nio display system, MXRT graphics controller, Intuitive Workflow toolset, 5-year all-inclusive warranty, MediCal QAWeb Agent	Nio display system, MXRT graphics controller, Intuitive Workflow toolset, 5-year all-inclusive warranty, MediCal QAWeb Agent	Coronis diagnostic display system, MXRT graphics controller, Intuitive Workflow toolset, 5-year all-inclusive warranty, MediCal QAWeb Agent	Coronis Fusion diagnostic display system, MXRT graphics controller, Intuitive Workflow toolset, 5-year all-inclusive warranty, MediCal QAWeb Agent	Nio display system, MXRT graphics controller, Intuitive Workflow toolset, 5-year all-inclusive warranty, MediCal QAWeb Agent	Nio display system, MXRT graphics controller, Intuitive Workflow toolset, 5-year all-inclusive warranty, MediCal QAWeb Agent	Coronis diagnostic display system, MXRT graphics controller, Intuitive Workflow toolset, 5-year all-inclusive warranty, MediCal QAWeb Agent	Coronis Fusion diagnostic display system, MXRT graphics controller, Intuitive Workflow toolset, 5-year all-inclusive warranty, MediCal QAWeb Agent	Coronis Uniti diagnostic display system, MXRT graphics controller, Intuitive Workflow toolset, SoftGlow keyboard and wall light, Touchpad and film clip
Options	Additional MXRT graphics controller options, MediCal QAWeb Premium, Core+ Warranty	Additional MXRT graphics controller options, MediCal QAWeb Premium, Core+ Warranty	Additional MXRT graphics controller options, MediCal QAWeb Premium, Core+ Warranty	Additional MXRT graphics controller options, MediCal QAWeb Premium, Core+ Warranty	Additional MXRT graphics controller options, MediCal QAWeb Premium, Core+ Warranty	Additional MXRT graphics controller options, MediCal QAWeb Premium, Core+ Warranty	Additional MXRT graphics controller options, MediCal QAWeb Premium, Core+ Warranty	Additional MXRT graphics controller options, MediCal QAWeb Premium, Core+ Warranty	Core+ warranty, MediCal QAWeb Premium

Clinical displays

Eonis

| CLEARED | CONSISTENCY | QAWeb | DICOM | WIDE VIEW | CLEANABLE | PIVOT |

A family of clinical displays for use in key clinical specialties and dental practices. Eonis delivers unmatched image consistency – providing healthcare professionals with consistent images, wherever they are – to make collaboration between specialists easier. Eonis displays can be managed centrally with MediCal QAWeb.

Your benefits

> Designed and approved for hospital and dental environments

> Ambient Light pre-sets for dark rooms, offices and the OR

> Supports efficient inter-disciplinary collaboration with consistent quality controlled images

> Cleanable displays for infection control (70% alcohol-based cleaning agents), safe for near-patient use

> Efficient and intelligent enterprise IT workflow thanks to a built-in sensor with software tool to manage quality and assets

> Lowest cost-of-ownership over time without a need for capital budget

Eonis put to the test

Watch video

Eonis vs consumer displays

Watch video

Models and options

SPECIFICATIONS	MDRC-1219 (TS)	Eonis 21"	Eonis 22" touch	Eonis 22" black	Eonis 22" white	Eonis 24" black	Eonis 24" white
	MDRC-1219 (TS)	MDRC-2221	MDRC-2222, Option TS	MDRC-2222, Option BL	MDRC-2222, Option WP	MDRC-2224, Option BL	MDRC-2224, Option WP
Warranty	3 years	3 years	3 years	3 years	3 years	3 years	3 years
Active screen size	376 x 301 mm (14.81 x 11.85")	432 mm x 324 mm (17" x 12.76")	476 mm x 268 mm (18.7" x 10.5")	476 mm x 268 mm (18.7" x 10.5")	476 mm x 268 mm (18.7" x 10.5")	518.4 mm x 324.0 mm (20.41" x 12.76")	518.4 mm x 324.0 mm (20.41" x 12.76")
Screen technology	IPS-TFT Color LCD	TFT Color LCD	TFT Color LCD IPS	TFT Color LCD IPS	TFT Color LCD IPS	TFT Color LCD IPS	TFT Color LCD IPS
Diagonal size	482 mm (19")	541 mm (21.3")	546 mm (21.5")	546 mm (21.5")	546 mm (21.5")	611.3 mm (24.1")	611.3 mm (24.1")
Aspect ratio	5:4	4:3	16:9	16:9	16:9	16:10	16:10
Native resolution	1MP (1280 x 1024)	2MP (1600 x 1200)	2MP (1920 x 1080)	2MP (1920 x 1080)	2MP (1920 x 1080)	2MP (1920 x 1200)	2MP (1920 x 1200)
Luminance (DICOM calibrated)	330 cd/m² (250 cd/m²)	440 cd/m² (250 cd/m²)	300 cd/m² (180 cd/m²)	300 cd/m² (180 cd/m²)	300 cd/m² (180 cd/m²)	300 cd/m² (180 cd/m²)	300 cd/m² (180 cd/m²)
Contrast ratio	1000:1	1500:1	1000:1	1000:1	1000:1	1000:1	1000:1
Screen protection	n/a	n/a	Protective, non-reflective glass cover	n/a	Protective, non-reflective glass cover	n/a	Protective, non-reflective glass cover
Front sensor technology	Front consistency sensor	Front consistency sensor	Front consistency sensor	Front consistency sensor	Front consistency sensor	Front consistency sensor	Front consistency sensor
Cleanability	n/a	n/a	n/a	n/a	IP32	n/a	IP32
Video input signals	DisplayPort, DVI	DisplayPort, DVI	DisplayPort, DVI-I	DisplayPort, DVI-I	DisplayPort, DVI-I	VGA, DisplayPort, HDMI	VGA, DisplayPort, HDMI
Medical device regulations	FDA & EC: Viewing of medical radiology images (Class I)	FDA & EC: Viewing of medical radiology images (Class I)	FDA & EC: Viewing of medical radiology images (Class I)	FDA & EC: Viewing of medical radiology images (Class I)	FDA & EC: Viewing of medical radiology images (Class I)	FDA & EC: Viewing of medical radiology images (Class I)	FDA & EC: Viewing of medical radiology images (Class I)
Package includes	• MDRC display • 3-year all-inclusive warranty • MediCal QAWeb Agent	• Eonis display • 3-year all-inclusive warranty • MediCal QAWeb Agent	• Eonis display • 3-year all-inclusive warranty • MediCal QAWeb Agent	• Eonis display • 3-year all-inclusive warranty • MediCal QAWeb Agent	• Eonis display • 3-year all-inclusive warranty • MediCal QAWeb Agent	• Eonis display • 3-year all-inclusive warranty • MediCal QAWeb Agent	• Eonis display • 3-year all-inclusive warranty • MediCal QAWeb Agent
Options	• MXRT graphics controller • Intuitive Workflow toolset • MediCal QAWeb Premium • Core+ Warranty	• MXRT graphics controller • Intuitive Workflow toolset • MediCal QAWeb Premium • Core+ Warranty	• MXRT graphics controller • Intuitive Workflow toolset • MediCal QAWeb Premium • Core+ Warranty	• MXRT graphics controller • Intuitive Workflow toolset • MediCal QAWeb Premium • Core+ Warranty	• MXRT graphics controller • Intuitive Workflow toolset • MediCal QAWeb Premium • Core+ Warranty	• MXRT graphics controller • Intuitive Workflow toolset • MediCal QAWeb Premium • Core+ Warranty	• MXRT graphics controller • Intuitive Workflow toolset • MediCal QAWeb Premium • Core+ Warranty

MDSC

surgery

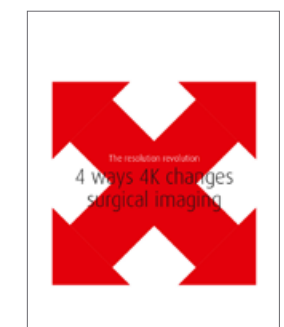| 4K	CLEANABLE	DICOM	WIDE VIEW	BLOS	BACKLIGHT	COVER	OSD	APPROVED	3Y WARRANTY
3840x2160									

Surgical displays

A family of surgical displays designed for real-time critical imaging in the operating room. The portfolio comprises near-patient and large-screen displays for use in any environment where surgical procedures are carried out, including the endoscopy room, interventional suite or hybrid OR. Available in high definition or 4K ultra-high definition.

Your benefits

> Deep blacks and accurate colors from any viewing angle
> Near-zero latency provides perfect surgical hand-eye coordination
> Improved visualization in high ambient light environments
> Backlight output stabilization guarantees image stability and brightness over the lifetime of the display
> Cleanable infection control design complies with strict OR hygiene standards
> Unique cable management system makes it easy to install and disinfect
> Automated failover feature so a backup signal is always available
> Perfect match with Barco's Nexxis OR-over-IP platform for full OR integration

4 ways 4K changes surgical imaging:

The resolution revolution
4 ways 4K changes
surgical imaging

Download ebook

Models and options

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	ENDOSCOPY DISPLAYS					LARGE-SCREEN DISPLAYS		

SPECIFICATIONS	AMM 215WTD	MDSC-2324	MDSC-2226	MDSC-2326 High Bright	MDSC-2232	MDSC-8231	MDSC-2242	MDSC-8255	MDSC-8358
Warranty	18 months	3 years	3 years	3 years	3 years	3 years	3 years	3 years	2 years
Active screen size (H x V)	475 x 267 mm (18.7 x 10.5")	518.4 x 324 mm (20.4" x 12.7")	576 x 324 mm (22.7" x 12.8")	576 x 324 mm (22.7" x 12.8")	698 x 393 mm (27.48" x 15.47")	698 x 368 mm (27.48" x 14.49")	930 x 523 mm (36.6" x 20.6")	1210 x 640 mm	1270 x 721.5 mm (50 x 28.4")
Screen technology	TFT AM LCD / LED Backlight	TFT AM LCD / S-IPS technology / LED backlight	TFT AM LCD / IPS-PRO / LED backlight	TFT AM LCD / IPS-PRO / LED backlight	TFT AM LCD / S-IPS technology / LED backlight	TFT AM LCD / IPS-PRO technology / LED backlight	TFT AM LCD / LED backlight	TFT AM LCD / IPS technology / LED backlight	a-si TFT active matrix
Diagonal size	21.46" (545.2 mm)	24" (611.3 mm)	26" (661 mm)	26" (661 mm)	31.55" (801 mm)	31" (789 mm)	42" (1067 mm)	54.6" (1388 mm)	58" (1473 mm)
Aspect ratio	16:9	16:10	16:9	16:9	16:9	17:9	16:9	16:9	16:9
Native resolution	Full HD 1920 x 1080	WUXGA 1920 x 1200	Full HD 1920 x 1080	Full HD 1920 x 1080	Full HD 1920 x 1080	4K-2K UHD 4096 x 2160	Full HD 1920 x 1080	4K UHD 3840 x 2160	4K UHD 3840 x 2160
Luminance	250 cd/m²	400 cd/m²	450 cd/m²	900 cd/m²	450 cd/m²	550 cd/m²	500 cd/m²	500 cd/m²	700 cd/m²
Contrast ratio	1000:1	1500:1	1400:1	1400:1	1300:1	1400:1	4000:1	1000:1	4000:1
Screen protection	Double-side anti-reflective PMMA protective cover	Double-side anti-reflective PMMA protective cover	Double-side anti-reflective PMMA protective cover	Scratch-resistant 2-side anti-reflective alkali-aluminosilicate glass cover	Double side anti-reflective tempered glass protective cover	Scratch-resistant 2-side anti-reflective alkali-aluminosilicate glass cover	Double side anti-reflective tempered glass protective cover	Scratch-resistant, 2-side anti-reflective glass cover	Double side anti-reflective laminated glass protective cover
Cable management	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cleanability	IP21 (IPx5 front)	IP21 (IP45 front)	IP21 (IPx5 front)	IP21 (IPx5 front)	IP20 (IP45 front side only)	IP20 (IP45 front side only)	IP21 (IPx5 front side only)	IP20 (IP45 front side)	IP20 (IP21 with protective glass)
Failover	n/a	Yes	Yes	Yes	Yes	Yes	Yes	n/a	Yes
Video input signals	2xDVI-I, VGA, RGBS / YPbPr, S-video, Composite video, 3G-SDI	DVI-I Single-Link (Digital & Analog / HDMI support with HDCP), Component Video RGBS / YPbPr (4xBNC) / S-video / Composite video / 3G-SDI / DisplayPort v 1.1a Optional: integrated Nexxis network adapter	DVI-I (HDMI support), DVI-D, 2x 3G-SDI, S-video, Composite video, 3G-SDI, DisplayPort (1.1a) Optional: integrated Nexxis MNA-120 network adapter / 2nd DVI / 2nd SDI	DVI-I (HDMI support), DVI-D, 2x 3G-SDI, RGBS / YPbPr, S-video, Composite video, DisplayPort 1.1a Optional: integrated Nexxis MNA-120 decoder	DVI-I (2x - HDMI support), RGBS / YPbPr, S-video, Composite video, 3G-SDI (2x), DisplayPort (1.1a) Optional: integrated Nexxis MNA-120 network adapter	2x DP 1.1, 1x DP 1.2 MST, 1x DVI, 1x 3G-SDI Optional: integrated Nexxis MNA-240 network adapter	DVI-I (HDMI support), RGBS / YPbPr, S-video, Composite video, 3G-SDI, DisplayPort (1.1a) Optional: integrated Nexxis MNA-120 network adapter	2x DP 1.1, 1x DP 1.2 MST, 1x DVI, 1x 3G-SDI Optional: 2x FO SFP+ module for 4K-UHD Nexxis link	DVI Dual Link, DVI Single Link, DP1.2 Optional: Nexxis MNA-240 decoder, 2x Single Link DVI Dual Splitter
Video output signal	SDI / S-video / Composite Video, RGBS / YPbPr	DVI-D / S-video / Composite video / 3G-SDI	DVI / SDI / S-video / Composite	DVI-D / 2x 3G-SDI / S-video / Composite	DVI / SDI / S-video / Composite	DVI (UHD downscaled) 3G-SDI (input loop-through)	DVI / SDI / S-video / Composite	DVI (UHD downscaled) 3G-SDI (input loop-through)	n/a
Medical device regulations	FDA & EC: Endoscopic and Surgical imaging (Class I)	FDA & EC: Endoscopic and Surgical imaging (Class I)	FDA & EC: Endoscopic and Surgical imaging (Class I)	FDA & EC: Endoscopic and Surgical imaging (Class I)	FDA & EC: Endoscopic and Surgical imaging (Class I)	FDA & EC: Endoscopic and Surgical imaging (Class I)	FDA & EC: Endoscopic and Surgical imaging (Class I)	FDA & EC: Endoscopic and Surgical imaging (Class I)	FDA & EC: Endoscopic and Surgical imaging (Class I)
Package includes:	• AMM 215WTD display • 18-month all-inclusive warranty	• MDSC display • 3-year all-inclusive warranty	• MDSC display • 3-year all-inclusive warranty	• MDSC display • 3-year all-inclusive warranty	• MDSC display • 3-year all-inclusive warranty	• MDSC display • 3-year all-inclusive warranty	• MDSC display • 3-year all-inclusive warranty	• MDSC display • 3-year all-inclusive warranty	• MDSC display • 2-year all-inclusive warranty
Options	• Ask about our different model options and associated accessories • Core+ warranty	• Ask about our different model options and associated accessories • Core+ warranty	• Ask about our different model options and associated accessories • Core+ warranty	• Ask about our different model options and associated accessories • Core+ warranty	• Ask about our different model options and associated accessories • Core+ warranty	• Ask about our different model options and associated accessories • Core+ warranty	• Ask about our different model options and associated accessories • Core+ warranty	• Ask about our different model options and associated accessories • Core+ warranty	• Ask about our different model options and associated accessories • Core+ warranty

Smart displays and user interfaces

surgery	EMR	other

APPROVED	COLOR	TOUCH	WIDE VIEW

A range of displays that offer an intuitive, ergonomic touch experience, specially designed for use in a medical environment. They can be used for a variety of applications, including the digital operating room and medical carts. Wherever clinicians need access to detailed information, at the touch of a fingertip.

Your benefits

> Multi- and single-touch functionality for quick operation
> Ergonomic interaction, even when wearing gloves
> Fit for use in highly demanding, mission-critical environments
> Special design that allows for easy cleaning and infection control
> Easy to install, whether on carts, arms or booms

Models and options

Smart displays and user interfaces

SMART DISPLAYS AND USER INTERFACES			

SPECIFICATIONS	MDRC-2222, Option TS	MDRC-1219, Option TS	AMM 215WTTP	MUIP-2112
Warranty	3 years	3 years	18 months	2 years
Active screen size	476 x 268 mm (18.7" x 10.5")	376 x 301 mm (14.8" x 11.8")	476 x 267 mm (18.7" x 10.5")	276 x 157 mm (10.8" x 6.2")
Screen technology	TFT Color LCD IPS	IPS-TFT Color LCD	TFT AM LCD	TFT AM LCD
Diagonal size	21.5" (546 mm)	19" (482 mm)	21.5" (545 mm)	12.5" (317 mm)
Aspect ratio	16:9	5:4	16:9	16:9
Native resolution	2MP (1920 x 1080)	1MP (1280 x 1024)	2MP (1920 x 1080)	2MP (1920 x 1080)
Luminance	300 cd/m²	330 cd/m²	250 cd/m²	400 cd/m²
Contrast ratio	1000:1	1000:1	1000:1	1000:1
Screen protection	Protective, non-reflective glass cover	N/A	N/A	Anti Glare (Gloss 50)
Cleanability	N/A	N/A	N/A	IP54 (with sealed connector cover)
Video input signals	DisplayPort, DVI-I	DVI, DisplayPort	DVI-D, VGA	N/A
Medical device regulations	FDA & EC: Viewing of medical radiology images (Class I)	FDA & EC: Viewing of medical radiology images (Class I)	FDA & EC: Endoscopic and Surgical imaging (Class I)	Medical device, class 1

Barco technologies that make a difference

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I-Guard™ front sensor

This integrated, patented front-of-screen photometer has become the industry-standard technology for monitoring image quality and DICOM consistency. The new generation of I-Guard has been improved to measure much finer gradations of colors spread over the color gamut of the display. Combined with Barco's MediCal QAWeb service, it provides an easy-to-use tool for calibration and Quality Assurance.

Benefits

> Worry-free DICOM accuracy
> Continuous, automated QA of the entire optical stack
> Remote assessment of your display's image quality

Without I-Guard

2017   2018   2019

With I-Guard

Ambient Light Compensation™ (ALC)

Ensures that your diagnostic display system remains DICOM compliant under all lighting conditions by monitoring display brightness compared to the ambient light level in the room. In combination with MediCal QAWeb, ALC warns you when the ambient light level exceeds a predefined threshold.

Benefits

> DICOM compliance under all lighting conditions
> Optimal image quality in every environment so no detail goes unnoticed

DICOM compliance under all lighting conditions thanks to ALC
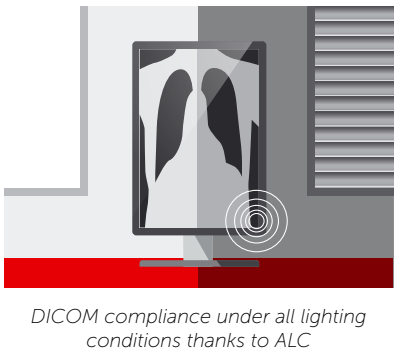
Uniform Luminance Technology™ (ULT)

LCD panels typically suffer from non-uniform behavior across more than 25% of the screen area, causing noise in the image. ULT eliminates those luminance and color non-uniformities, making 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

Without ULT   *With ULT*
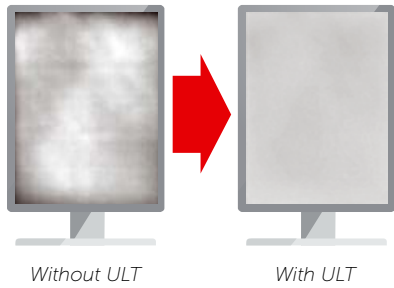
Color Per Pixel Uniformity™ (PPU)

Measures and adjusts the luminance of each pixel and makes it permanently DICOM compliant. As such, PPU eliminates screen noise, ensuring consistent colors and grayscales.

Benefits

> Reduced screen noise
> Improved contrast and accuracy in fine details
> Improved image quality at a lower dose to the patient

Without PPU   *With PPU*
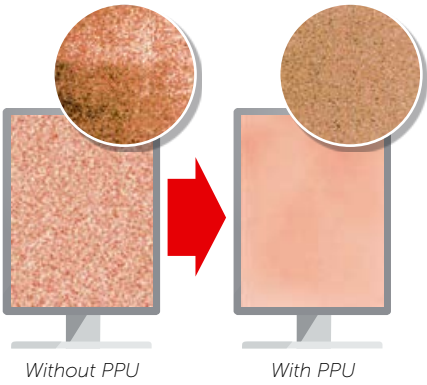
Fusion

'Fusion' design replaces a dual-head display setup by a single, large-screen monitor without a hindering central bezel. It allows you to place more images on the screen – just the way you want – which has proven to increase productivity by up to 19% and reduce eye strain.

Benefits

> Improved reading productivity
> Easy side-by-side comparison of studies
> Reduced eye fatigue

Barco Optical glass™

Reduces reflection, enhances image sharpness and viewing comfort. The multi-coated glass is highly durable, scratch-resistant, and protects the LCD panel from physical damage. A protective front cover – available on all Barco displays – further enhances the diagnostic experience.

Benefits

> Protection of your valuable LCD panel
> Improved image contrast & minimal reflections
> Easy and safe cleaning

I-Guard video

Watch video
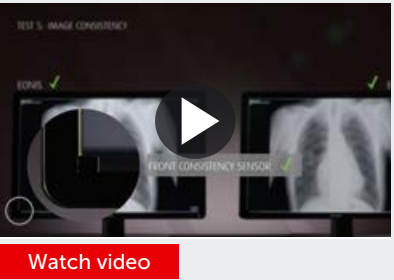
ULT technology highlight

Download

Coronis Fusion by numbers

Download
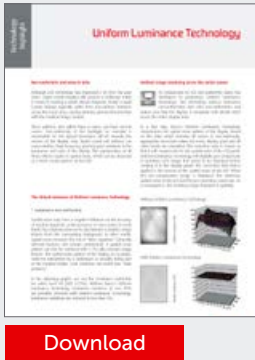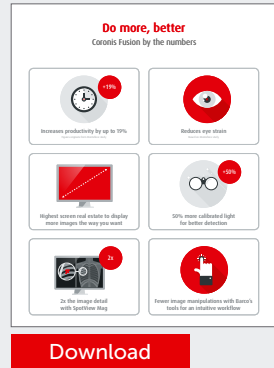
Optical glass technology highlight

Download

IPS-Pro

A breakthrough LCD architecture offering a significantly wider viewing angle than competing LCD technologies. It ensures images are displayed more accurately and with a higher contrast ratio near the sides of the display. With IPS-Pro, the viewing angle is 120°, which is nearly twice the value achieved by other technologies.

Benefits

> Superior diagnostic accuracy
> Wider viewing angle improves multiuser viewing

RapidFrame

For high-speed cine imaging without blur when reviewing multi-frame image sequences – such as tomosynthesis, breast ultrasound and breast MRI – or when hovering over the image with the magnifying glass. RapidFrame technology counteracts motion blur by providing a high pixel refresh rate.

Benefits

> High-speed cine imaging without blur for fast interpretation
> Increased screening efficiency due to highly efficient diagnostic workflow
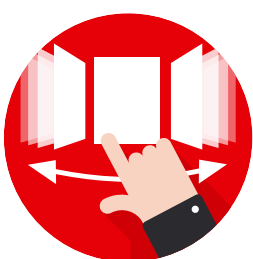
I-Luminate™

This brightness boost system has proven to increase detection of microcalcifications by up to 30%! Simply push the I-Luminate™ 'hot light' button to temporarily boost your display brightness. Combined with Barco's handy film clip, I-Luminate allows you to compare studies with film-based priors on the display.

Benefits

> Enhanced perception of small and low contrast details
> Simplified comparison with film-based studies
> Uninterrupted DICOM-compliance
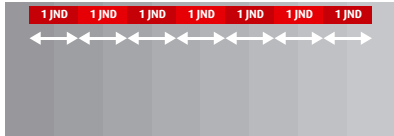
SteadyColor™ & SteadyGray™

Around 90% of images generated are now in color and color is often used for additional functionality (e.g. combining Doppler images with ultrasound). In order to guarantee consistent, perceptually linear color and still meet the DICOM standard for grayscales, SteadyColor executes advanced calibration for both grayscale and all Just Noticeable Differences (JNDs). This is achieved using multiple sensors in combination with numerous 3D Look-Up Tables (LUTs). SteadyGray uses the same color calibration technology to achieve a more constant and consistent gray appearance.

Benefits

> Maximize the diagnostic value of color in images
> Maintain image quality and DICOM compliance under all lighting conditions

Before SteadyColor   *After SteadyColor*
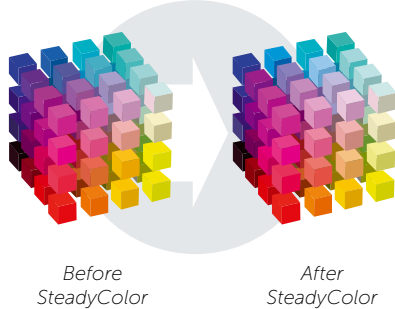
SpotView™

SpotView creates a bright focal point on the screen, enhancing brightness and contrast inside a circular region of interest while dimming the surrounding image area. This heightens visibility of subtle differences in the image. With SpotView Mag, you can even double the size of the image so no detail goes unnoticed.

Benefits

> Better visibility of subtle differences in the image
> Extremely helpful when viewing pediatric extremities, breast calcifications and chest exams
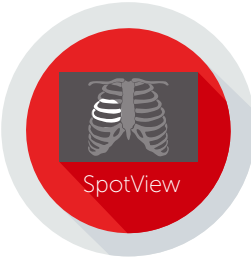
DimView™

DimView automatically dims the auxiliary displays used for patient worklists or dictation, reducing peripheral ambient light during readings so the eye can better focus on details on the diagnostic display.

Benefits

> Improved focus on the main display, no distractions
> More ergonomic reading experience
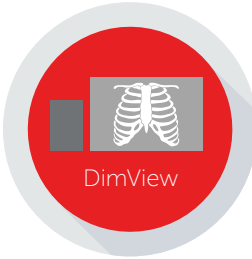
RapidFrame video
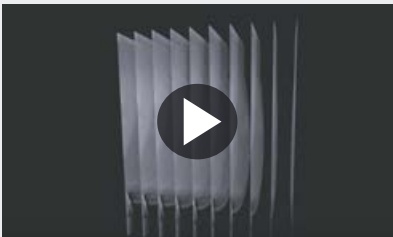
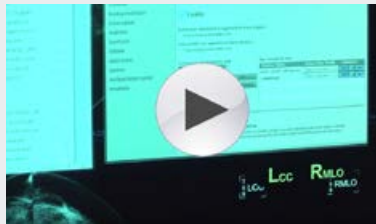Watch video

SteadyColor technology highlight

Download

SpotView video

Watch video

DimView video

Watch video

SmartCursor/ FindCursor

The use of multiple resolution displays in a PACS workstation results in the cursor often getting stuck traveling from one display to another, if you can even locate the cursor in the first place. SmartCursor maps the cursor to the correct places in the adjacent display. FindCursor indicates the location of the cursor with a highlighted circle.

Benefits

> Avoid losing time locating or moving the mouse cursor
> Smoother and faster workflow
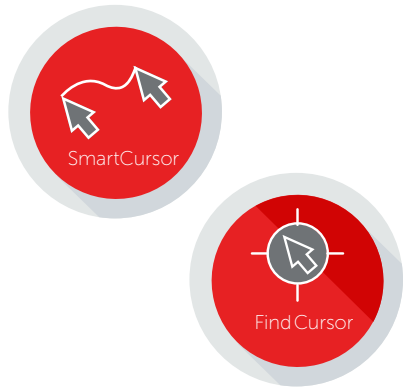
VirtualView™

VirtualView provides radiologists with a virtual navigational head on the main display. It appears and disappears on user command, allowing you to add or remove this screen content at your convenience.

Benefits

> View other screen content more comfortably
> Ideal for viewing worklists, re search, dictation, or ancillary tasks
> Reduce the number of displays needed; simplify the desktop

Conference CloneView

Conference CloneView software is a high-performance, easy-to-use tool for projecting medical images from a diagnostic display onto a large screen, especially useful in classroom settings.

Benefits

> High-quality cloned image without losing pixel precision
> Fosters collaboration between peers
> Ideal during multi-disciplinary team meetings
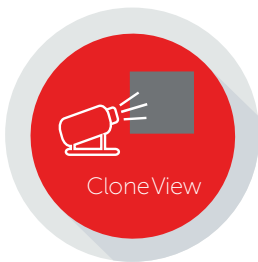
Application Appearance Manager™

Application Appearance Manager allows you to individually manage the color profile and luminance of each application window so content appears as intended.

Benefits

> Seamlessly integrate color (e.g. color photos) into the diagnostic workflow
> Manage the luminance of applica tion windows depending on image content

User Profiles

User Profiles creates a custom profile, set per modality and per user. It enables a quick environment switch for image type, such as a lower luminance for X-ray images and hig

Benefits

> Read images according to your own preferences
> Automatically get the right display settings for every modality
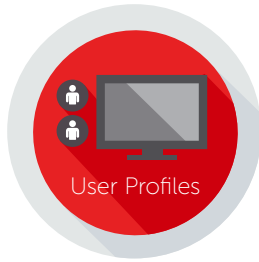
SingleView™

SingleView enables the use of the entire display as one display, and eliminates any tearing down the center of the display.

Benefits

> More flexible desktop where im ages can be placed in the center of the screen
> More ergonomic viewing experience

SmartCursor

FindCursor

VirtualView

CloneView

AAM

User Profiles

SingleView
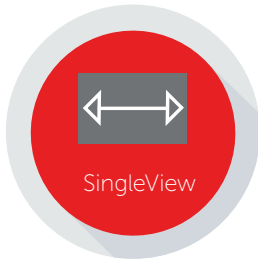
Screenshot

Capturing ideal images for meetings and review, this tool enables you to take a screenshot of what is currently in focus.

Benefits

> Easy to communicate and share images and data
> Fosters easy collaboration between peers

ScreenShot

SmartCursor / FindCursor video

Watch video

Watch video

VirtualView video

Watch video

Watch video

Watch video

Icon overview

Icon	Description
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
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

Icon	Description
FRONT SENSOR	Front-of-screen sensor
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
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

Icon	Description
STEADYCOLOR	DICOM grayscale and color
COLOR PPU	Color Per Pixel Uniformity Correction
SCREENSHOT	Screenshot of image details
AAM	Application Appearance Manager
VIRTUALVIEW	A virtual display
SPOTVIEW	Focus light
DIMVIEW	Dims auxiliary displays
FINDCURSOR	Locates the mouse cursor
SMARTCURSOR	Avoids the cursor getting stuck
CLONEVIEW	For large-screen projection
4K 4096x2160	4K native display resolution of 4096 by 2160 pixels

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the Image Distribution People

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About Barco Healthcare

Improving the quality and value of care are the leading priorities for healthcare professionals today. At a time when the amount of data is growing rapidly and there is more demand for mobility, healthcare systems struggle to work more efficiently, and to provide personalized care to a growing number of patients in an affordable way.

Focused on transforming the delivery of care, Barco connects healthcare professionals at every patient touch point, from the imaging room, to radiology, through specialist consultations and in the surgical suite. We offer a network of medical imaging solutions that deliver the complete picture to support more informed decisions, when and where it matters most.

It's why we are considered the gold standard for medical visualization and how we are there at every stage of the patients' journey. So healthcare professionals can focus on patients' needs and, in the end, achieve the best clinical outcome.

Barco, enabling bright outcomes

[1] Marchessoux, C., et al. (2011). Validation of a new digital breast tomosynthesis medical display. Proceedings of SPIE, 7966, 79660R

[2] Kimpe, T. R. & Xthona, A. (2012). Quantification of detection probability of microcalcifications at increased display luminance levels. , Breast Imaging, Springer 7361, 490-497.

[3] Mony Weschler, Montefiore Medical Center, 2012

ENABLING BRIGHT OUTCOMES

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