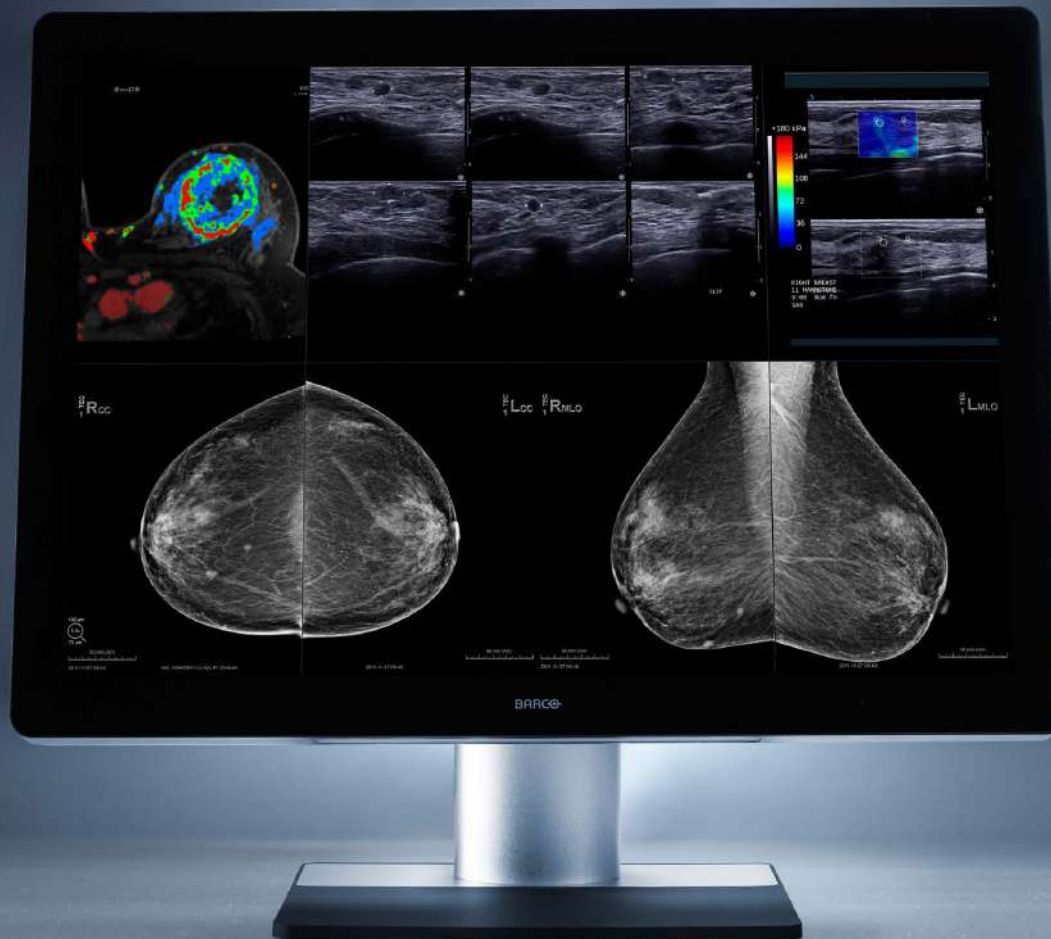# Coronis Uniti®

See what you haven't seen before

BARCO

The facts

The MarkeTech Group surveyed over 200 radiologists in Europe and North America to ask about the challenges in radiology. The key findings?

...About image quality

91% believe image quality is the most important display aspect that impacts reading performance.

80% of radiologists believe higher spatial resolution will improve the reading experience.

76% find image uniformity enhances clinical practice.

...About productivity

77% believe efficient workflow impacts reading sessions.

74% think increasing image volumes affect productivity.

53% think the growing complexity of studies is a challenge.

...About ergonomics

87% of radiologists experience physical discomfort when reading images.

85% of radiologists use three displays or more, which impacts viewing comfort.

Almost 70% of respondents say that display ergonomics are very important.

The next leap forward in diagnostic imaging visualization
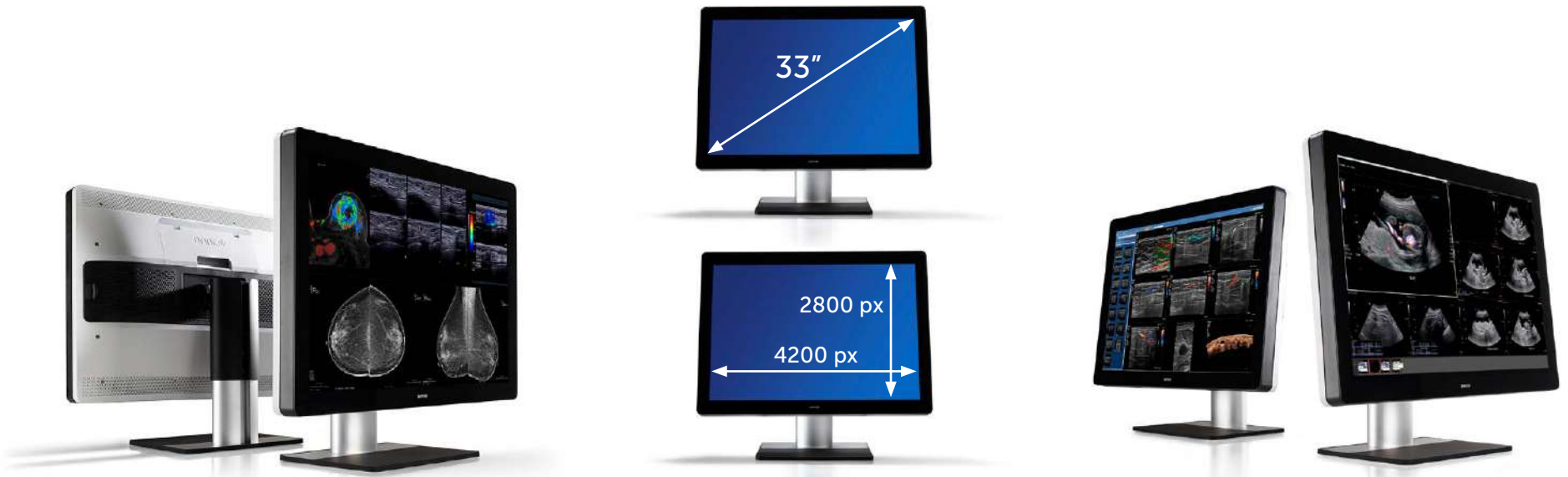# Coronis Uniti®

Change your reading room dynamics

One display. Any image.

66% of radiologists want to see colors and grays on the same screen. What's more, 63% read both digital mammography and color PACS. In the US, this number increases to 84%! So, we built a display that unifies your workflow. The only display explicitly designed for both PACS and 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. Together, these features will forever change the way you work.

Easy on the eyes

About 80% of radiologists want higher resolution and a larger screen surface to improve their reading experience. So, we developed the largest display form factor today to match your natural field of vision. It's sharp as a tack with 12 million pixels of pinpoint precision. It's super bright so you can see more details with less strain on the eyes. And it unites ergonomics and performance features to help you sail through your work day in comfort.

Designed to perform. Built to last.

91% of radiologists believe image quality is vital to their reading performance. So, we designed Coronis Uniti® with unique optical glass technology to increase image sharpness. One-of-a-kind color and grayscale calibration ensures consistent PACS and breast imaging. And automated QA guarantees top performance without interruptions.

Virtual Lightbox™

SpotView™ focuses light

Multi-touch pad

Spark your productivity
Over 90% of radiologists want images to load faster and manipulations to go quicker. So, meet Coronis Uniti®. Equipped with purpose-powered graphics cards to ensure high-speed image processing. Enabling film-like brightness at the touch of the 'hot light' button. Starring RapidFrame™ technology to scroll and cine through a stack of images rapidly without compromising on quality.

Focus on the smallest details
SpotView™ allows you to boost the luminance in a region of interest while dimming the surrounding image area so you can focus on more details more efficiently while reducing eye fatigue.
And SpotView Mag helps you focus even more by making the image in the region of interest twice as large!

You're in the driver's seat
81% of radiologists love smart features that reduce eye fatigue and enhance control. So, we bundle Coronis Uniti® with a multi-touch pad for faster control. Use the touchpad's gesture controls to easily load the next image or advance to the next study. What's more, integrated adjustable ambient lighting makes viewing comfy. And easily selectable color temperatures suit every image. Your preferences, your rules.

Take a giant leap in performance

Unify your workflow

Coronis Uniti delivers the first unified workflow – combining PACS and breast images on one workstation. It's the solution that replaces all display configurations, eliminating the need for a multi-head display set-up or to move to another workstation to view additional exams. It's the display your reading room – and your radiologists – deserve.

Push your productivity

RapidFrame technology ensures crisp and in-focus moving images. A pixel refresh rate in sync with the LCD reduces the time to read large multi-frame studies. Together with the ultra-fast transition speed of the unique LCD panel, subtle details are easier to detect when scrolling through stacks of images. Now you can cine through images with no blurring and push your workflow as fast as you like.

Speed up your reading

With Barco MXRT display controllers, built on AMD FirePro™ hardware, you'll diagnose images with more speed than ever before. Their processing power combined with proprietary technologies gives rise to a set of tools that make your workflow more intuitive and enhance productivity.

Get full control

An innovative multi-touch pad gives you full control with a minimum of effort. The included touch pad allows you to easily interact with your viewing tools and can be programmed to optimize your workflow.

Share your findings

Flexible training and conferencing? Check. With Conference CloneView™, you'll project high-quality images from your workstation onto the big screen with ease. Panning, zooming, and cloning goes without effort.

See what you haven't seen before

See what you want to see

Featuring the highest – 12 MegaPixel - resolution, the display presents images with crystal-clear precision on a large, flexible, bezel-free image area, providing an uninterrupted view of large images, numerous smaller studies, or various combinations and overlays in any layout desired. Fit more images on the display or view chest and breast images at a larger size with less need to pan, zoom, window and level.

Get the precision you need, in grayscale and color

In response to the growth of color modalities, everything you see on the big screen – from grayscales to color-enhanced and fused modalities – is sharp and precise. That's because every Coronis Uniti® display features SteadyColor™ calibration technology to meet the DICOM standard for grayscales and to guarantee consistent, perceptually linear color – an industry first.

Ensure uniform images all the time

Screen noise can distract from the clarity of the image. Coronis Uniti® makes every pixel permanently DICOM-compliant, ensuring consistent colors and grayscales. How? By measuring and adjusting the luminance of every single pixel to eliminate the slightest bit of noise. Color PPU™ works together with SmoothGray™ technology to guarantee perfectly uniform images all the time.

See the smallest of details

Coronis Uniti® features DuraLight Brilliance™ for exceptional brightness. The result is more JNDs, unveiling more image details. Our patented I-Luminate technology further improves detection of fine details in breast images by increasing display luminance to more than 2,000 nits. And with our stunning SpotView™ technology, you can focus the light on lesions or abnormalities that you would like to have a closer look at.

Get the most out of your display

We help you take care of the things you love. MediCal QAWeb™, a cloud-based technology for automated calibration and Quality Assurance, and the patented I-Guard™ integrated front sensor work together to guarantee 24/7 compliance to medical standards (DICOM, MQSA, DIN, JESRA ...) and maximum uptime of the display. Additionally, the software identifies issues and takes corrective action at the speed of light. All-inclusive and intervention-free, the service also comprises powerful display analysis and reporting capabilities.

Get used to being comfortable

Limit head, hand, and eye movements

Coronis Uniti® was designed with ergonomics in mind, mirroring a human's natural field of vision to optimize your reading experience. The unique aspect ratio, together with a 33" screen size and Fusion form factor, create the perfect canvas for side-by-side comparison of multiple high-res images. The carefully designed format minimizes the need for head and eye movement and reduces scaling and rearranging to complete studies more efficiently.

Light up the reading room

Reading your studies in the dark is now a thing of the past. The SoftGlow™ task light sheds a light on your papers and film folders to improve visibility. And the SoftGlow™ wall light adds comforting ambient lighting to your reading room to reduce eye fatigue. ALC™ (Ambient Light Compensation) ensures quality images under any lighting conditions.

SoftGlow™ task light

Reduce reflection

Barco Optical Glass™ is a cutting-edge technology incorporated into the display. It reduces reflection, enhances image sharpness and hence viewing comfort. The multi-coated glass is highly durable, scratch-resistant, and protects the LCD panel from physical damage.

Pick your color

For your convenience, Coronis Uniti® also comes with a handy film clip to hold 18x24 or 24x30 films so you can use your display as a virtual lightbox to compare them on the display with your current digital exams. It's also possible to switch between Clear base and Blue base viewing modes on-the-fly. And Application Appearance Manager allows you to individually manage the color profile and luminance of each application so content appears as intended.

Get more bang for your buck

See more patients per day

52% of radiologists think changes in reimbursement and healthcare IT budgets will impact their way of working. That's why Coronis Uniti® is the display your reading room deserves. The ability to control every display across the enterprise ensures that you will have the right images, in the right place, at the right time to maximize productivity.

Improve health outcomes

Effortlessly complying with all medical and quality standards and featuring stunning image-enhancing technologies, such as proprietary color calibration, Coronis Uniti® supports accurate diagnostic decisions. In short, Coronis Uniti® demonstrates quality of care, which may have a positive impact on reimbursement rates.
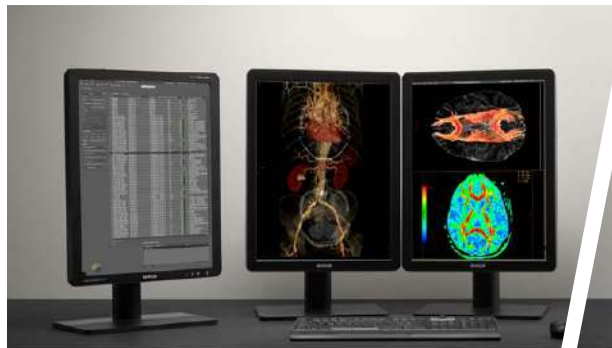
Gain control through consolidation

Simplifying and standardizing the image reading technology platform makes it easier to manage and control the entire display network. What's more, by integrating multi-modality mammography into general radiology, display management and QA/MQSA compliance become a piece of cake.

Thanks to VirtualView™, you get additional real-estate on the screen without the need for an additional display. A virtual display is created to use as a navigational head, or for other software, such as dictation.

Invest once. Reap the benefits forever.

A universal radiology display, Coronis Uniti® replaces a multi-head display set-up, which leads to major reductions in display cost, real estate, and the operational expenditure required to maintain your display fleet. Fit for current as well as emerging modalities, Coronis Uniti® is a one-time investment that will last a lifetime.

The old reading room

The new reading room

Coronis Uniti specifications

Display	MDMC-12133
Screen technology	LCD
Backlight	DuraLight Brilliance™ LED
Active screen diagonal	853.44 mm (33.6")
Active screen size (H x V)	708.1 x 472.1 mm (27.8 x 18.6")
Aspect ratio (H:V)	3:2
Pixel pitch	0.1686 mm
Color imaging	Yes
Gray imaging	Yes
Resolution	4,200 x 2,800 pixels
Viewing angle (H, V)	178°, 178°
Luminance Uniformity	Color Per Pixel Uniformity (PPU™)
Ambient Light Compensation (ALC)	Yes
I-Guard	Yes
Maximum luminance	> 2100 cd/m²
DICOM calibrated luminance	1000 cd/m²
Contrast ratio (typical)	1200:1
Response time (Tr + Tf)	< 33 ms (all single transitions < 16.5 ms)
Video input signals	2 x DisplayPort (DP1.2)
USB ports	4 (1 upstream, 3 downstream)
USB standard	2.0, providing 2.5W
Power requirements	100 - 240 V
Power consumption (typical)	190 W
Power management	VESA DPMS
OSD languages	English, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Chinese (simplified), Japanese, Korean, Arabic, Polish, Russian
Display Controls	I-Luminate™, SoftGlow™, Virtual Lightbox™

Dimensions with stand (W x H x D)	795 x 610 x 300 mm (lowest position)
Dimensions w/o stand (W x H x D)	795 x 572 x 131 mm
Net weight with stand	33 kg
Net weight w/o stand	24 kg
Height adjustment range	95 mm
Tilt	-5° / +30°
Swivel	-23° / +23°
Mounting standard	VESA (200 x 100 mm & 100 x 100 mm)
Screen protection	Barco Optical Glass
Certifications	International safety, radiofrequency emission, and medical approvals (details on barco.com)
Supplied accessories	MXRT Display Controller, including productivity tools Video cables (2x DisplayPort) Main cables (UK, European , USA , Chinese) USB 2.0 cable External power supply Film clip Multi-Touch Pad (wired)
QA software	QAWeb, including SteadyColor™ and Blue base / Clear base switching
Warranty	5 years, 40k hours backlight warranty
Operating temperature	+0°C to +35°C
Storage temperature	-20°C to +60°C
Operating humidity	20% to 85% RH
Storage humidity	5% to 85% RH
Operation altitude	Max. 3,000 m

Engineered down to the smallest detail

Technologies that enhance **image quality**

STEADYCOLOR — Calibrated to meet the DICOM standard for grayscales and to guarantee consistent color behavior – an industry first.

COLOR PPU — Makes every pixel permanently DICOM-compliant, ensuring consistent colors and grayscales.

SMOOTHGRAY — Guarantees the best DICOM precision.

QAWeb — A cloud-based technology for automated calibration and Quality Assurance.

I-GUARD — Works wonderfully well with MediCal QAWeb to ensure 24/7 compliance to medical standards.

DURALIGHT — Delivers exceptional brightness. The result is more JNDs, unveiling more image details.

LED BACKLIGHT — For efficient, long-lasting brightness.

I-LUMINATE — Doubles the brightness – to more than 2,000 nits.

Technologies that enhance **productivity**

RAPIDFRAME — Ensures crisp and in-focus moving images.

TOUCH PAD — For faster control and smooth image manipulations.

CLONEVIEW — Projects images onto the large screen with ease.

30 BIT — For unmatched processing power, loading current and prior exams in no time.

ALC — For consistent images in any lighting conditions.

FILM CLIP — To use your display as a virtual light box to view film priors.

SPOTVIEW — Focuses the light on things you want to have a closer look at.

Technologies that enhance **ergonomics**

12 MP — The highest resolution (12MP) on a large, bezel-free image area.

33" SCREEN — Designed to mirror a human's natural field of vision thanks to the 33" screen size and Fusion form factor.

OPTICAL GLASS — Reduces reflection, enhances image sharpness and hence viewing comfort. Durable and scratch-resistant.

SOFTGLOW — Task light and wall light to reduce eye fatigue.

VIRTUALVIEW — To create a virtual nav head on the main display.

DIMVIEW — Dims auxiliary displays while reading to focus on image details on the main display.

CLEAR/BLUEBASE — Switches between Clear base and Blue base viewing modes on-the-fly.

AAM — Application Appearance Manager assures that color images appear as intended and allows luminance control of individual windows.

Discover the new reading room on **www.barco.com/uniti**

ENABLING BRIGHT OUTCOMES

BARCO