

8

FACTORS

that will change
the practice of

BREAST IMAGING RADIOLOGISTS

The field of digital breast imaging is always evolving. This means display technology – a critical tool for radiologists – cannot stay behind. For breast imaging radiologists to achieve the best diagnosis and patient outcomes, they need the best display systems out there. Many industry experts have said Barco's Coronis Uniti® is a true game changer in radiology. But what exactly makes it great? Here are 8 display characteristics that have revolutionized the way breast imaging radiologists work.

FACTOR #1 UNIFIED WORKFLOW

To make the best diagnosis, radiologists interpret different types of breast imaging exams. But different sets of images have their own specific display specifications, compelling radiologists to use multiple workstations or work across different reading rooms. With Coronis Uniti, radiologists can literally view ANY image on one display. A key factor in improving workflow efficiency and, most importantly, patient care.

FACTOR #2 COLOR

One display, any image? This means the display should enable visualization of studies in grayscale as well as color. But just like grayscale images need to comply with the DICOM standard, color images also need additional monitoring, correction, calibration and stabilization to render them in a diagnostically meaningful way.

Coronis Uniti is able to deliver this performance thanks to Barco's unique SteadyColor technology. The fact that Coronis Uniti is cleared by the FDA for digital mammography, including digital breast tomosynthesis, breast MR and ultrasound is a defining piece of this display.

FACTOR #3 IMAGE QUALITY

91% of radiologists feel image quality is the most important factor that impacts their reading performance. Coronis Uniti (12MP) has a 12% increase in pixels in comparison with the dual 5MP displays, which are the accepted norm for digital mammography. This, as well as its unique optical glass and Per Pixel Uniformity allows radiologists to see more details, especially in dense breast tissue.

Coronis Uniti also offers luminance levels of 1000 cd/m² – the highest luminance available today on a digital mammography display!

FACTOR #4 SCREEN REAL ESTATE

Coronis Uniti offers 20% more screen real estate, so radiologists can see high resolution mammography images without the need to pan the breast image to view all details. Additionally, the 33" diagonal screen eliminates the center bezel present on the dual 5MP displays, so there is no distraction when comparing images side-by-side.

FACTOR #5 FIELD OF VISION

The design of Coronis Uniti is a reflection of our commitment to supporting radiologists' workflow as well as their health. 87% of radiologists experience physical discomfort when reading images. Coronis Uniti is designed to mirror a human's natural field of vision to minimize head, neck and eye movement, so radiologists can read more comfortably and stay focused during the day.

FACTOR #6 INTUITIVE WORKFLOW

Demonstrating another technology leap, Coronis Uniti has workflow features built into the display system to enhance the reading experience of radiologists. Examples of these tools include SpotView and SpotView Mag (to highlight and magnify a particular region of interest in the image) as well as features to control ambient lighting.

FACTOR #7 DIGITAL BREAST TOMOSYNTHESIS

With the rise of digital breast tomosynthesis (DBT) or 3D mammography, we also wanted to improve the reading of DBT studies. RapidFrame technology helps radiologists to scroll through large sets of tomosynthesis slices without lag or blurring of the image. Studies have shown a 10% higher detection of micro calcifications with Coronis Uniti - an advantage for both radiologists and patients!

FACTOR #8 QUALITY ASSURANCE

Mammography displays need to meet strict Quality Assurance and Quality Control requirements. Coronis Uniti is bundled with MediCal QAWeb, Barco's online service for automated Quality Assurance and (color) calibration, to ensure full compliance with worldwide mammography standards, such as MQSA.

Unifying breast imaging – by Pat Montgomery



For more information about Coronis Uniti and its clinical benefits as well as expert opinions, read this article by Pat Montgomery.

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