

# Visioneering healthcare

Setting the standard with Barco diagnostic imaging displays



# Breaking new ground in healthcare imaging



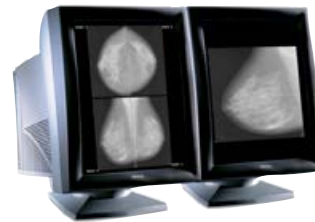
**1986**  
Barco's first medical display for ultrasound, MCD-10



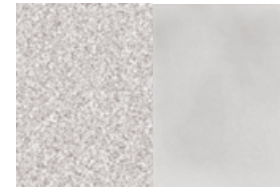
**1993**  
Barco's first primary diagnostic display system, MGD-521



**2001**  
Introducing the I-Guard front-of-screen precision photometer



**2002**  
The first 5MP mammography display, MGD-521M



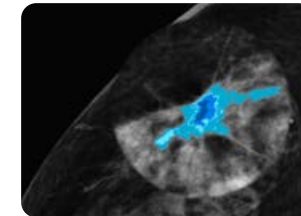
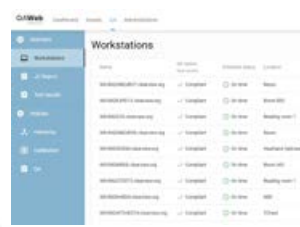
**2004**  
Introducing unique and patented Per Pixel Uniformity (PPU) technology



**2006**  
1<sup>st</sup> automated QA and calibration system (MediCal QAWeb)

A radiologist's success relies on using the most advanced display technologies available. Barco displays present the brightest, most precise images and smoothest reading capabilities.

László Tabár, MD, FACR (Hon) Course Director Professor Emeritus of Radiology and president of Mammography Education, Inc.



**2011**

1<sup>st</sup> system for breast tomosynthesis (Mammo Tomosynthesis 5MP)

**2014**

1<sup>st</sup> system for unified workflow for PACS and breast imaging (Coronis Uniti) featuring SteadyColor calibration

**2019**

Introducing QAWeb Enterprise, cloud-based platform for centralized and remote QA & compliance management

**2021**

World's 1<sup>st</sup> stand-alone display for digital pathology

**2023**

AI-driven tool DL Precise, for morphology of dense breast tissue

**2024**

1<sup>st</sup> display that can show complete medical images in one look, without the need to zoom in or pan (Coronis OneLook)

## Almost 40 years of innovation

Leading innovation and smart technology breakthroughs to deliver incredible image quality and spur productivity for the entire healthcare enterprise has been our mission for almost 40 years. The result is a beautiful portfolio of visualization solutions for radiology, breast imaging, surgery, dentistry, and digital pathology, along with clinical displays for healthcare specialists and digital OR systems.



Frost & Sullivan award.  
Copy: Frost & Sullivan Award for Visionary Innovation Leadership in Global Image Visualization



Frost & Sullivan Award for Technology Leadership in the Multi-modal Medical Display Industry

# Caring with confidence



Diagnostic imaging fuels huge progress in healthcare delivery, resulting in better health outcomes and life expectancies. Screening exams save lives through early detection, making most exploratory surgeries a thing of the past. A hospital's commitment to diagnostic imaging promotes exceptional healthcare that benefits both patients and medical specialists.

Image quality and compliance are paramount to achieving a confident diagnosis, and ultimately, a successful course of treatment. Barco technologies that go beyond pixels and lumens enhance even the subtlest details to aid in precise detection at the earliest possible stage. Meticulously designed for faster image loading, creating a more streamlined workspace, and delivering crystal-clear images that are easy on the eyes, our solutions help you work with confidence and efficiency.

## Challenges of a new era

A survey amongst 200 radiologists in Europe and North America gathered their thoughts on 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.

### ...About productivity

**77%** believe efficient workflow impacts reading sessions.

**74%** think increasing image volumes affect productivity.

### ...About ergonomics

**87%** of radiologists experience physical discomfort when reading images.

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

# Everything you need. And more.

## Attention to detail

Barco displays deliver high brightness, better contrast, accurate colors, and a wider viewing angle than other medical displays, resulting in crystal-clear and accurate images. The result is impeccable quality in grayscale, color, moving, and static images from a multitude of modalities.

## Peak performance

Barco monitors are truly all-in-one devices, comprising a high-quality display, an ultra-fast medical display controller for fast image loading and manipulation, tools to enhance workflow, and an automated QA solution to ensure compliance.

## Easy on the eyes

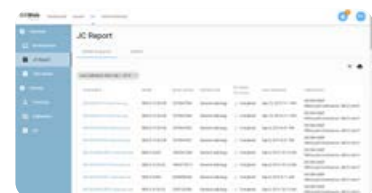
Growing study volumes result in greater pressures and longer reading days for radiologists. Ergonomic features that minimize physical stress, anti-reflective screens, ambient lighting, enhanced display form factors, and medical device tools increase focus to enhance productivity without discomfort.

## Sensory consistency

Built-in stabilization and patented front-of-screen sensors guarantee consistent image brightness and clarity throughout the entire display lifespan and on every display connected to the enterprise network. Colleagues in different locations see identical images, facilitating accurate remote collaboration.

## Ultimate peace of mind

No distortions and no distractions thanks to QAWeb Enterprise, a cloud-based service for automated Quality Assurance, calibration and compliance. And the all-inclusive 5-year warranty on Barco radiology displays is the best in the industry.





# Caring for women's health

## Improving outcomes

Breast cancer remains a top priority for healthcare organizations and society as a whole. However, a reduction in breast cancer incidents has been reported, and death rates have been steadily declining: the remarkable result of worldwide awareness campaigns, better treatment options, and early detection through improved screening. Facilitating detection of breast cancer in its earliest stage means investing in the newest screening methods and diagnostic technologies.



### Preferred by 80% of screening centers

4 out of 5 breast screening centers choose Barco breast imaging displays. These monitors are the perfect match for breast imaging, whether in color or grayscale, in 2D or 3D, on a large, bezel-free widescreen or on a dual-head workstation. The choice is yours.



### Color: the future of breast imaging

Barco breast imaging displays have been designed for demanding radiology applications that require excellent grayscale rendition and detail, especially appreciated in mammography and breast tomosynthesis. To guarantee that color breast images are rendered just as accurately, we developed SteadyColor technology: for sophisticated calibrated color, from display to display, that also improves gray images. Unique in the market!



### AI-driven software tool DL Precise for dense breast tissue

For radiologists who frequently handle dense breast images, DL Precise is a true game-changer. This AI-driven software tool augments an area of interest with a vividly colored density map and calculates the morphology of suspicious areas.



One look is all it takes to change the lives of millions

# Coronis OneLook

From supporting orthopedics to finding tiny breast calcifications: Coronis OneLook is our paragon coming after decades of research and development.

Coronis OneLook gives you more detail than you've ever imagined: it boasts the highest number of image lines and pixels we have ever achieved. All this combined with crisp, consistent greyscales and colors and new productivity tools, true to the Barco range.





# Coronis OneLook

## Complete images in one look

With its 32-megapixel resolution, Corinis OneLook boasts the highest resolution in breast imaging displays today. Straight from the acquisition machine, you get to see every detail of your medical image without needing to zoom in and pan in steps. An industry first!

## Personalize your workflow

Corinis OneLook has been optimized with our latest insights into radiology workflow and comfort. In addition to our suite of Intuitive Workflow Tools, it includes an on-screen bar with customizable touch buttons, so you can launch your go-to applications without any clicks.

## Extreme detail

Corinis OneLook offers an extremely high medical contrast. Details easily stand out thanks to 770 just noticeable differences, which you can boost up as high as 849 with the I-Luminate brightness booster. Additionally, the monitor's OpticalGlass reduces reflections and makes cleaning easy, so you see your images in all their sharpness.



## A proven formula

- Full-resolution viewing on 17% larger viewing area than smaller & shorter displays. No bezels between images means uninterrupted image space.
- Fusion format has been proven to improve productivity by 19%<sup>1</sup>
- Barco-patented RapidFrame technology can lead up to a 10% higher detection of small details in moving images.<sup>2</sup>
- 7% faster reading of 2D mammogram images with higher luminance<sup>3</sup>
- Calibrated luminance levels of 1000 cd/m<sup>2</sup> lead to increased detection probability of breast microcalcifications compared to calibrated luminance levels of 500 cd/m<sup>2</sup><sup>4</sup>

# No more boundaries



## Get the bigger picture

The field of multi-modality imaging has seen rapid progress in the last decade with reading rooms becoming one of the busiest departments in the healthcare enterprise. Its value has been demonstrated in numerous studies: combining computed tomography (CT) and MRI, for example, provides stunning structural detail. By fusing anatomical and functional imaging, radiologists get the full picture.

# Coronis Fusion

## Engineered for different modalities

The first-ever Fusion display on the market, and it keeps getting better. That's Coronis Fusion. This multi-modality diagnostic display system streamlines your workflow, combining multiple images or studies on a single display – so switching between workstations becomes a thing of the past!

Ingeniously designed, Coronis Fusion lets you configure your screen as a single, widescreen display or two bezel-free heads. Image-enhancing features reveal the smallest details with sharper grayscales than ever before and calibrated colors, all on the same display. The result is a fast and accurate diagnosis.



# Nio

## Efficient detection, confident diagnosis

Nio is a series of modern, simple and efficient medical grade displays, that offer powerful performance for either general radiology or breast imaging - whether you work in the office or at home. Available in grayscale or in color, Nio displays are packed with their own dedicated and innovative features, making your image look the best it can.




## Nio Color 8MP for teleradiology

Whether you're working in an office, at home, or in any other location, a solid setup is crucial. With its 8MP resolution and generous 32" screen, Nio Color 8MP empowers you to combine the information and images you need on a single screen. In addition, Nio Color 8MP also offers an integrated camera, speaker and microphone as well as advanced screensharing options, KVM functionality and daisy chaining. Perfect for remote radiology work.





# Ultimate slide to eye confidence

A woman with curly brown hair, wearing a white lab coat over a tan top, is sitting in an office. Behind her is a large computer monitor displaying a high-magnification histological slide with purple and pink tissue. To the right of the monitor, on a desk, are several books, a glass pitcher of water, and a small potted plant. The background shows large windows with a view of a modern building.

Pathologists are standing at the crossroads of a slow but steady digital evolution in their field of expertise. That comes with its challenges too, of course. How do you start transitioning to a digital workflow? How do you handle large volumes of digitized slides? What new technologies are important to keep in mind?

At Barco, we keep our finger on the pulse. Backed by decades of experience in digital medical imaging, we develop solutions that contribute to whole slide imaging. We respect the intrinsic characteristics and workflow of pathological analysis. And we focus on the outcome: you and your patient are always top of mind.



# MDPC-8127

## A proven formula<sup>5</sup>

- 8% reduction in review time, compared to consumer monitors
- 6% reduction in review time, compared to professional-grade monitors
- Shows 100% diagnostic concordance with microscope
- Improves productivity through high-precision touchpad

Meet MDPC-8127, Barco's ultra-high definition medical grade display designed exclusively for digital pathology. With regulatory clearance for primary diagnosis, this display is the first of its kind that can be seamlessly integrated into your digital pathology workflow, supporting multiple whole slide imaging systems.

Perceive more when investigating the etiology and pathogenesis of histological samples thanks to ultimate brightness, authentic colors and constant image stability throughout the display's long-lasting lifetime.



## Your slides, visualized as never before

Trust your display like you trust your expertise, with the 27-inch, ultra-high definition display.

- Extremely sharp and consistent images
- Large visible slide area, at all viewer zoom levels
- 1.07 billion possible colors, tailored to digital pathology images
- Effortless panning & zooming with minimal blurring
- High-precision touchpad for improved productivity

## Our tech has your back

Our monitors are packed with technologies that are tailored to the unique aspects and needs that come with the digital pathology workflow. Many of these technologies were developed by our own R&D teams, based on research and collaboration with customers and industry experts.

Take our Ambient Light sensor, for example. It tracks the light that falls on your display and gives a warning when your environment becomes too bright.

# What's unique about us?

## Brilliance on screen. And behind it.

I-Guard, RapidFrame, SteadyColor, OpticalGlass, SoftGlow, I-Luminate, Uniform Luminance Technology, Per Pixel Uniformity, SteadyColor, ... Innovative technologies that seamlessly integrate with your displays, enrich your diagnostic imaging experience to boost their functionality, improve performance and increase detection.

## Get the very best out of your investment with our ConnectCare service

Are you managing a fleet of monitors? Through our ConnectCare service, we can help you extend its lifetime and optimize its performance. We offer expert support in monitoring and optimizing your fleet and strategic insights to maximize your diagnostic display investment. Would you like to learn more? Just reach out to us!

## Complete peace of mind with our industry-leading warranty

Our warranty is all-inclusive, meaning it covers your entire system: display, controller, sensors, software and QA solution. Because clinical performance is critical, we also guarantee the luminance and backlight hours on our Nio and Coronis displays to ensure clinical compliance throughout the warranty period. Another unrivaled pledge to our customers.

## Your productivity is our priority

Proprietary MXRT medical display controllers are your guarantee for leading-edge performance, flexibility as well as reliability and unmatched processing power for medical datasets. Built on this MXRT technology, Barco's Intuitive Workflow Tools bring proven clinical benefits with increased accuracy and decreased reading times. Our systems are validated with the latest workstations and with all major PACS applications.

## Enterprise-wide QA and compliance

QAWeb Enterprise is our free online service for high-grade Quality Assurance and DICOM calibration. This all-inclusive secured system supports consistent image quality and uptime of all PACS display systems throughout the hospital enterprise. Additional features include remote control, display asset management, problem solving and reporting.

## Need a worklist display?

Barco clinical review displays are your perfect sidekick. These clinical review displays offer exceptional image quality and high brightness levels. A look under the hood reveals a unique asset: a front sensor that guarantees consistent images. Every time the display is switched on, image quality is aligned anew. In short; your PACS images, RIS data and image-enabled EMR have never looked better, and will continue to do so for many years to come.



# Barco's Sustainable Impact Journey

Through our Sustainable Impact Journey program, we are committed to designing and implementing more sustainable solutions to protect earth, engage people, and empower society for a bright tomorrow.



## Protecting earth

We protect earth by taking climate action and developing more sustainable products.



## Engaging people

We foster entrepreneurial, adaptable, and inclusive teams.



## Empowering society

We empower society for sustainability and resilience.

## Our ecoscore methodology

We developed an objective tool that grades our products according to all aspects of their ecodesign performance. The framework that has been used to validate the ecoscore is defined in the ISO 14021 standard and the complete methodology was validated by the experts from EY.

### Coronis OneLook

#### A+ ecoscore

- Level VI power supply & energy efficiency when in active use
- >65% halogen-free PCBs and >50% halogen-free cables
- Packaging uses recycled cardboard and foams with recycled content
- 30% post-consumer recycled content in plastic parts
- Warranty extendable up to 7 years

### Nio Color 2MP

#### A++ ecoscore

- High energy efficiency: 43% better than predecessor
- 100% halogen-free cables, PCBs & plastic parts >25g
- 84% recycled cardboard packaging
- Unpainted housing
- Enclosure uses plastics compatible for recycling

# 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 and demand for mobility are growing rapidly and quality and compliance regulations are becoming stricter, 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 into 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 patient's journey. So healthcare professionals can focus on patients' needs and, in the end, achieve the best clinical outcome.

## Visioneering a bright tomorrow

- 1 In retrospective simulated use. Weschler, M. (2012). 6MP Displays Offer Speed, Comfort Benefits. Auntminnie, 2012.
- 2 When used in displays intended for digital breast tomosynthesis, such as Coronis OneLook. Marchessoux, C., et al. (2011). Validation of New Digital Breast Tomosynthesis Medical Display. Proceedings of SPIE, 7966, 79660R, 2011.
- 3 Bemelmans, F. et al. (2016). Luminance Level of a Monitor: Influence on Detectability and Detection Rate of Breast Cancer in 2D Mammography. SPIE Medical Imaging, 2016.
- 4 Ferranti, C., et al. (2017). How Does the Display Luminance Level Affect Detectability of Breast Microcalcifications and Spiculated Lesions in Digital Breast Tomosynthesis (DBT) Images? Academic Radiology, 2017
- 5 Cazzaniga G, Mascadri F, Marletta S, et al. Benchmarking digital displays (monitors) for histological diagnoses: the nephropathology use case. Journal of Clinical Pathology. Published online first: 27 March 2024.

M00537-R08-0425-MB April 2025

[www.barco.com/healthcare](http://www.barco.com/healthcare)

**BARCO**