

Medical Monitor Solutions

**RadiForce**<sup>®</sup> 2019–2020

# Making Each Life Visual

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# Making Each Life Visual

Every life is unique. Every person's medical treatment should be tailored to meet their individual needs.

In the age of precision medicine, the possibilities offered by biotechnologies, artificial intelligence, and information technology open up completely new avenues for diagnosis, prevention, and treatment.

Precision requires comprehensive information. Collecting, linking, and analyzing data, as well as recording, storing, and evaluating image data therefore represents a critical resource for modern medical practices.

Faster treatment success, better quality of life: Technical innovation has an immediate impact on the medical processes in hospitals and operating rooms. Which is why we employ all of our experience and work together with highly qualified medical teams to produce reliable systems for processing image data in the age of precision medicine.

Our knowledge is in the service of better health. Every life is worth it.

Making Each Life Visual.



### Medical Monitor Solutions RadiForce®

RadiForce specially designed 1 to 12 megapixel monochrome and color monitors take full account of medical institutions' need for different types of monitors with DICOM<sup>®</sup> Part 14 standard calibration and high-performance capabilities required for precise diagnoses.

#### View at the Appropriate Resolution

Each modality varies in its display of medical images with regards to size and information volume. RadiForce monitors come in a range of resolutions for displaying images appropriate for each modality.











Mammography



#### Make the Precise Diagnosis



1220

EIZO carefully measures and sets each grayscale tone for compliance with DICOM Part 14. Furthermore, at startup or upon wakeup, the EIZO patented drift correction function

quickly stabilizes the brightness level and compensates the brightness fluctuations caused by the ambient temperature and the passage of time, allowing medical images to be faithfully reproduced with stable brightness and grayscale.

MS236WT features a DICOM preset mode for optimal medical image viewing.







#### Manage Effortless Quality Control

An Integrated Front Sensor (IFS) housed within the front bezel measures brightness and grayscale tones and calibrates to the DICOM Part 14 standard. The hands-free IFS performs quality control tasks and does not interfere with the viewing area while in use. This dramatically cuts the workload and maintenance costs needed for maintaining monitor quality control.

All models except the MX242W, MX194, and MS236WT.





#### Uniformity Across the Screen

The Digital Uniformity Equalizer (DUE) function helps to even out fluctuations in brightness and chroma on different parts of the screen to provide smoother images, a quality typically difficult to attain due to the characteristics of LCD monitors.

With DUE

All models except the MS236WT.



Without DUE

Image is for illustrative purposes only. Actual results will vary depending on model and environment.



The CAL Switch function allows you to choose various modes for different modalities such as CR, CT, and endoscopy. It can be conveniently accessed using the monitor's front panel buttons to easily switch to optimal image viewing conditions.

Number or type of the modes vary by model. Check the specifications on pages 20 - 23.



#### Variations for Specific User Needs

EIZO offers anti-glare (AG) and anti-reflection (AR) screen variations to suit user environments. AG treatment is ideal for exceptionally bright environments and drastically reduces glare from ambient lighting. AR treatment is ideal for moderately-lit environments to reduce mild screen glare while maintaining crisp text and images.



#### Display Both Monochrome and Color



The Hybrid Gamma PXL function automatically creates a hybrid display where each pixel has optimum grayscale. As a result, monochrome images such as x-ray, MRI and CT are displayed in the

ideal DICOM Part 14 grayscale, while color images such as ultrasound and endoscopy are reproduced corresponding to Gamma 2.2. This improves the efficiency of viewing both monochrome and color images together on the one screen.

Check the specifications on pages 20 - 23 for availability.





#### Conserve Energy While Away

The presence sensor equipped with some models prompts the monitor to switch to power save mode when it detects you are away, and then resumes normal operation when you return. This ensures that the monitor conserves power when it is not in use, uniting convenience with savings.

All models except RX1270 and MX216.



#### Stay Confident with Stable Brightness

EIZO's confidence in its product quality extends to brightness stability which is also covered during the usage time specified in the warranty.

All models except the MS236WT.



RadiForce Monitors

#### Improve Operability

EIZO's highly versatile stand offers tilt, swivel, and a wide height adjustment range, enabling you to use the monitor with greater comfort.



GX560, RX560, RX360, RX250, MX216

MS236WT comes with a stand that lets you tilt the monitor back for easy touch pen use.



#### Effortless Installation

EIZO, in collaboration with business partners, verifies the compatibility of healthcare workstations and desktop PCs with EIZO monitors. With our years of experience and know-how, we undertake professional testing on new workstations and PCs as soon as they are released. In the healthcare field where reliability is everything, EIZO is providing the assurance needed for effortless installation.



## RadiForce<sup>®</sup> Multi-Series

With advances in medical imaging technology over the years, hospitals are now handling a wider variety and larger volume of image data. The multi-modality approach of RadiForce super high-resolution diagnostic monitors allows a variety of images to be displayed on a single screen — an essential step forward for medicine.



12MP 8.4 cm (30.9") Color LCD Monitor

#### **Multi-Modality Readiness**

Multi-modality monitors are capable of displaying images to suit a number of modalities such as CR, DR, MRI, CT, and ultrasound. With multi-modality support, you can increase work efficiency with the ability to view numerous medical images on one screen with exceptional accuracy.

#### Seamlessly View Images

RadiForce multi-modality monitors allow you to view images side by side without the obtrusive bezels typically found in a multi-monitor setup. This prevents the eye from being disrupted when moving between two screens for reader efficiency.











As more image modalities become digitalized, radiologists are viewing an increasing amount of information on their screens. EIZO's unique Work-and-Flow technology alleviates the complexity of the imaging workflow with new functions developed with the radiologist in mind. Users can take advantage of Work-and-Flow features with the RadiForce monitors and bundled RadiCS LE software.

#### Quick Referencing



The Hide-and-Seek function enables users to easily hide the PinP (Picture in Picture) window not currently in use and reopen it as needed by moving the mouse cursor to the edge of the screen. This eliminates the need for an extra monitor while still allowing quick and efficient viewing of reports, patient charts, and other information.

Check the specifications on pages 20 - 23 for availability.







### Work-and-Flow



#### Barrier-Free Workstyle



With the Switch-and-Go function, you Switch-and-Go can operate two different workstations at the same time with a single mouse and keyboard. Work across several monitors with intuitive cursor movement or switch signals between workstations as needed without changing your mouse or keyboard each time. This makes it possible to reduce the number of monitors in the workflow and improves work efficiency.

Check the specifications on pages 20 - 23 for availability.



MammoDuo integrates two 5 megapixel monitors side by side on a specifically designed stand.

### GX560 MammoDuo RX560 MammoDuo

With the world's narrowest bezel of 7.5 mm on a 5 megapixel monitor, two monitors side by side have a combined bezel width of only 15 mm. Furthermore the bezel is only 2.5 mm thick to help your eyes swiftly move from one monitor to another.

## RadiForce<sup>®</sup> Mammo-Series *A*

It is vital in the process of early breast cancer detection that monitors display accurate and consistent quality images. EIZO provides optimum diagnosis confidence with distinctive versions of the RadiForce Mammo-Series breast imaging monitors for displaying breast screening images.







### Work-and-Flow



Focus only on an important area of interest with EIZO's unique function that makes it easier to concentrate on interpreting images. www.eizoglobal.com/i/workandflow2/

#### Quick and Easy Focus

With the Point-and-Focus function, you can quickly select and focus areas of concern with just your mouse and keyboard. Change the brightness and grayscale tones of certain points on the screen to make interpretation easier.

Check the specifications on pages 20 - 23 for availability.









All-in-One Breast Imaging

between comfort and functionality in reading rooms. With its 12 megapixel (4200 x 2800) resolution and compact 30.9-inch size, you can comfortably view several breast images side by side on a single screen. Furthermore, the monitor comes with a rear light which gently illuminates the wall behind, creating the ideal ambient lighting for improved reading accuracy.



#### Full Color Support

As the world's first medical monitor with an LTPS (low temperature polysilicon) panel, the RX560 achieves a maximum brightness of 1100 cd/m<sup>2</sup> and a contrast ratio of 1500:1 similar to that of monochrome monitors. This ensures that with a single screen, monochrome images such as breast tomosynthesis and mammography are displayed accurately alongside color images such as MRI, CT, ultrasound, pathology, and biopsies to accurately examine breast tissue.





GX560-MD 54.1cm (21.3") Monochrome LCD Monitors with Dual Screen Configuration

GX560 54.1 cm (21.3") Monochrome LCD Monitor

#### **Optimum Breast Screening**

The 5 megapixel (2048 x 2560) GX560 adopts an LTPS (low temperature polysilicon) panel with a maximum brightness of 2500 cd/m<sup>2</sup> and a pixel pitch of 0.165 mm. It reproduces large volume mammography images accurately with minimal thinning and patchiness, and is suitable for distinguishing spiculated masses and the delicate shadows of calcifications. Furthermore, 12 millisecond response time allows smooth and efficient viewing of breast tomosynthesis.



Breast Tomosynthesis



Mammography

## RadiForce<sup>®</sup>G&R-Series

High-resolution 3 megapixel monitors are capable of fully displaying chest X-ray images. 2 megapixel monitors are ideal for a wide variety of tasks from viewing CR, DR, MRI, and CT images to use as a PACS / HIS / RIS terminal.





54 cm (21.3") Color LCD Monitor

3MP RX360 54.1 cm (21.3") Color LCD Monitor







3MP GX340 54 cm (21.3") Monochrome LCD Monitor



#### Achieve Clarity True to the Source Data

A medical monitor needs to be capable of high brightness in order to meet performance standards. However, in order to achieve high brightness in an LCD panel, the pixel aperture ratio has to be increased. This causes an unavoidable decline in sharpness. With EIZO's unique Sharpness Recovery technology installed on RX360 and RX250, the decrease in sharpness (MTF) is restored. This allows you to display an image safely on the monitor that is true to the original source data, even at high brightness levels.



#### Create a Free-Flowing Work Environment

Compared to the RX340, the RX360 has been reduced in width, height, and depth by 35 mm, 39 mm, and 46 mm respectively – a total of 32% less space. With approximately 70% reduction in bezel width a freeflowing multi-monitor work environment can be made.

2MP RX250



#### Hassle-Free Multi-Monitor Configuration

Utilizing the DisplayPort output connection of RX36010-bit (1,024 tones) simultaneous grayscale displayand RX250, you can drive several monitors in a daisy chainreproduces monochrome images with a high bit-depthsequence. This allows you to configure a multi-monitorfor a sharper, clearer result.setup without the complicated hassle of excessive cabling.10-bit graphics board and 10-bit viewer software needed for



Without DisplayPort Output



With DisplayPort Output



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#### Discern Subtleties in Grayscale Tones

10-bit graphics board and 10-bit viewer software needed for 10-bit display.



8-bit Displayed Image



10-bit Displayed Image

## RadiForce<sup>®</sup> MX-Series

8MP MX315W

79 cm (31.1") Color LCD Monitor





54 cm (21.3") Color LCD Monitor





MX242W 61 cm (24.1") Color LCD Monitor



For environments using clinical record applications for image referencing, more cost-efficient solutions are available with the MX-Series, so you can continue to review medical images optimized for DICOM Part 14 while ensuring higher savings.



#### Improved Workflow with High Resolution

The MX315W offers the highest resolution from the MX-Series, displaying 8 megapixels of information (4096 × 2160 pixels) on the large 31.1-inch screen. By utilizing the MX315W's increased viewing space and freedom of layout, it is possible to display various inspection images side by side, such as CT and MRI images in tiled format. This will allow for the comparison of old and current scans, ultimately improving efficiency.

2MP



#### Accommodate the Image

When you configure your monitor after installing the included RadiCS LE quality control software, you can link the Image Rotation Plus function with the built-in gravity sensor, so that the screen will automatically switch to either portrait or landscape mode, based on the orientation of the monitor.

Available with the MX242W and MX216.





Rotate from Landscape to Portrait

Superior cost performance monitors are ideal for viewing patient charts with MRI and CT medical images in DICOM Part 14 standard. In addition, they are available in widescreen and square formats in various resolutions to meet the diverse needs of hospitals and clinics.

#### Smooth and Detailed Handwriting

The MS236WT accepts touch input from a bare finger or commercially-available stylus pen, so small and detailed letters can easily be written into a medical record.



The MS236WT is equipped with palm rejection which allows you to rest your hand directly on the screen without causing any unintended touch input, so that you can focus on your writing.

Palm rejection minimum activation area is 2 × 2 cm.





### Security & Surveillance /Maritime



<sup>1</sup> EIZO Corporation has a branch office in Saudi Arabia.

<sup>2</sup> EIZO Europe GmbH is headquartered in Germany with branch offices in Belgium, Italy, the Netherlands, and the Czech Republic.

<sup>3</sup> EIZO GmbH is headquartered in Rülzheim with a branch office in Plauen.

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