



EIZO Extends RadiForce™ Series for a Full Lineup of 1MP, 2MP, and 3MP Monochrome and Color Medical Display Systems

New Additions to RadiForce series coupled with current product lines provide comprehensive selection of professional display products for medical applications

Matto, Japan, November 5, 2002 – Eizo Nanao Corporation today announced the upcoming addition of 1MP and 2MP monochrome and 2MP color models to its RadiForce series of Medical Display Systems. With these new products, EIZO will have a full lineup of 1, 2, and 3MP models in both monochrome and color, giving medical professionals a comprehensive range of high quality flat panel display systems for various imaging modalities and information systems. EIZO will be exhibiting these new models for the first time along with the rest of the RadiForce lineup at the 88th Scientific Assembly and Annual Meeting of the Radiological Society of North America (RSNA) to be held from December 1-6 in Chicago, U.S.A.

Comprehensive Range of Products for Medical Applications

To reduce expenditures while providing improved services and patient care, the healthcare industry has been increasingly turning to technology-based solutions. One of the principal developments is the introduction of digital imaging which allows scans from different imaging modalities and patient records to be viewed on-screen. With its new RadiForce series of medical display systems, EIZO is offering hospitals a diverse range of products suitable for filmless diagnostic imaging. Furthermore, EIZO already has a comprehensive selection of professional display products for other visual display requirements of medical applications.

Series Name	Description	Applications for Medical Use
RadiForce	1, 2, 3MP monochrome and color LCD monitors	Filmless Diagnostic Imaging
FlexScan	15" – 21" color LCD and CRT monitors	PC-based viewing of patient data, administrative tasks
eClient	All-in-one LCD monitors/Windows-based Terminals	Server-based viewing of patient data, administrative tasks
Information Broadcasting System	System for the transmission of digital documents, ticker messages, and video content from a control PC to LCD or plasma monitor terminals	Dissemination of information to patients and staff in reception and waiting areas

New RadiForce Offerings

The upcoming additions to the RadiForce series – the RadiForce G11, G21, and R21 – present a mixture of shared features for usage flexibility. Wide viewing angles of 170° maintain image clarity from oblique positions, so the on-screen image can be assessed by several people at the same time. EIZO's own SlimEdge thin bezel design provides near seamless viewing in multi-panel environments and requires less desktop space than other LCD products on the market. They also offer height adjustment, free mount capability, tilt/swivel, support for landscape and portrait modes¹, and an internal power supply unit.

The RadiForce G11 and RadiForce G21 are 1MP (1280 × 1024) and 2MP (1600 × 1200)



monochrome displays with that produce a palette of 1,531 grayscale tones (10.5-bit) from which 256 can be shown simultaneously. With the optional Calibration Kit GX1, which consists of a photo sensor and calibration software, the monitors can be calibrated to the DICOM 14 standard.

Both models include several features that assure they are fully equipped for use with digital or legacy analog systems. Their DVI-I port accepts input from digital and analog graphics boards. Furthermore, they can both accept BNC input: the RadiForce G21 with its BNC ports and the RadiForce G11 with an optional DVI-I to BNC adaptor. When receiving a signal from a color graphics card, they perform an accurate conversion that faithfully reproduces the original color brightness differences in monochrome.

To produce the high speed graphics required for softcopy viewing, EIZO offers the optional VREngine/MD2W graphics card for the RadiForce G21, which features dual DVI ports to support connection of two units. When used with the RadiForce G21's DVI-I port, it not only eliminates signal degradation, but also supports portrait mode.

Even when receiving output from an analog graphics board the RadiForce G21 offers hardware rotation support. Most analog graphics cards only support landscape mode which means specialty software must be installed on the PC side for portrait mode display. This results in slower drawing speeds and requires unnecessary expenditures of time and money to purchase and install the software. With the RadiForce G21, however, all landscape-portrait conversion takes place inside the monitor.

The 2MP color RadiForce R21 offers a generous 21.3" screen size for its native 1600 × 1200 resolution. It includes an EIZO-developed 10-bit ASIC (Application Specific Integrated Circuit) to produce color and grayscale palettes of 1,021 tones from which 256 can be shown simultaneously. DVI-I and D-Sub ports provide compatibility with analog and digital graphics cards.

EIZO's unique ToneCurve Tuning Utility², which allows adjustment over how grayscale and color tones are displayed in high and low brightness areas of the screen, comes with the RadiForce R21. This utility allows radiologists to choose exactly which of the 256 tones from the 1,021 tone palette will be displayed on screen by inputting values in a table or manipulating control points on a graph (number of control points are selected by the user – 3, 5, 9, 16, 24, 33 or 256). Results are displayed immediately with a preview function.

Once a range of display values and the gamma output have been set with the ToneCurve Tuning Utility, they can be saved to the control PC and shared with other RadiForce color 1MP and 2MP units through a USB connection. With several such units installed in the same facility, this guarantees consistency and avoids the need to adjust each one individually.

Features unique to EIZO such as Fine Contrast and ScreenManager Pro for LCD assure the RadiForce R21 is equipped to handle non-diagnostic imaging tasks as well such as writing e-mail, viewing spreadsheets, or doing a search for information on the Web. Fine Contrast is a front button controlled function that offers six different modes – Text, Picture, Movie, Custom, sRGB, and External. Each mode has default settings for image parameters such as brightness, color temperature, gamma, and saturation. When switching among applications, simply press a button



on the panel to choose the most appropriate mode for that application. ScreenManager® Pro for LCD³ software offers image optimization features such as emulating the color characteristics of other monitors and color spaces including NTSC, HDTV, and sRGB. It also allows for individual hue and saturation control for each primary color (R, G, B) and secondary color (C, M, Y).

Accessories

EIZO has prepared additional accessories (sold separately) for the three new models.

- **Screen Administrator** – Ideal for a network environment, this EIZO developed software allows system administrators to perform important setup and management tasks on Windows-based client PCs and RadiForce monitors⁴ from a control PC. Some of these tasks include confirmation of connection and asset management for each client, and sending messages to appear on-screen.
- **Panel Protectors** – Available in various sizes, these sheets slide over the screen surface to protect against dust and scratches while leaving minimal trace of implementation.

Availability

The RadiForce G11 and G21 will be available worldwide in late January of 2003, and the RadiForce R21 in March of 2003.

About EIZO

Eizo Nanao Corporation, the specialist in the development and production of state-of-the-art display systems, is based in Japan and represented in over thirty countries by a network of exclusive distributors.

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¹ Pivot® Software from Portrait® Displays, Inc. is necessary for using the RadiForce G11 and R21 in portrait mode.

² ToneCurve Tuning Utility cannot be used with the monitors of any other manufacturer.

³ ScreenManager Pro for LCD can only be used with the Microsoft® Windows® 98SE, ME, 2000, and XP operating systems. When using this software, the RadiForce R11 must be connected to the PC with the bundled USB cable.

⁴ Screen Administrator is for use with select EIZO LCD monitors including 1MP and 2MP RadiForce models. It cannot be used with the monitors of any other manufacturer.

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