EIZO Introduces RadiForce™ G51 and G31 LCD Monitors with 10-Bit Simultaneous Grayscale Display

Extended selection of graphics boards also available for all RadiForce models

Matto, Japan, July 10, 2003 – Eizo Nanao Corporation today introduced the addition of two new monitors to its RadiForce series of medical display systems, the 5 megapixel RadiForce G51 and the 3 megapixel RadiForce G31. To ensure accurate diagnosis, EIZO has equipped these models with an 11.5-bit Look-Up Table for a palette of 3,061 grayscale tones from which 1,024 can be displayed simultaneously. With the release of the RadiForce G51 and G31, EIZO is pleased to announce that it will begin offering the MED Series of graphics boards alongside the VREngine Series it has been supplying since last year for bundling with RadiForce monitors. The combination of a high resolution monitor, graphics board, and optional DICOM-compliant calibration software presents a complete imaging system for mammography, CR (computed radiology), and DR (digital radiology).

The RadiForce G51 becomes the first 5 megapixel grayscale monitor in the RadiForce series. The 21.3" screen, 0.165 mm pixel pitch, and 2048 x 2560 resolution produces extremely detailed images to aid in accurate diagnosis. EIZO is also making this model available in both clearbase and bluebase versions so radiologists can work in their preferred environment. Brightness is 700 cd/m² and contrast ratio 600:1 for comfortable viewing in ambient lighting conditions. The RadiForce G31 has a native resolution of 1536 x 2048, 0.207 mm pixel pitch 700 cd/m² brightness and 600:1 contrast ratio. Both models have 170° viewing angles so more than one person can see the screen at once.

With an 11.5-bit palette (3,061 tones) and 10-bit simultaneous display (1,024 tones), the RadiForce G51 and G31 provided grayscale accuracy for optimum diagnostic confidence. To minimize space requirements, both monitors incorporate a thin bezel design of only 24 mm per side along all four sides. The decreased bezel size makes comparing images easier when two units or more units are placed side-by-side. The stands have a height adjustment range of 82 mm, and the panels tilt and swivel 40° and 70° respectively. The panels also contain built-in power supply units, and comply with VESA mounting standards.

For brightness stability when turning the monitors on or coming out of power save mode, EIZO includes its own patented[1] drift correction circuit. This circuit also detects changes in the backlight temperatures and automatically adjusts the divergence to the brightness default setting or any level defined by the user.

DICOM Compliance with Calibration Kit GX1

EIZO offers the optional Calibration Kit GX1 consisting of a Fresnel lens and calibration software, which ensures compliance with the DICOM 14 (Digital Imaging and Communications in Medicine) standard[2]. It also corrects changes in the backlight level that can occur over time and

thus guarantees bright, stable images throughout the life of the monitor. A calibration history function records all calibration activities for long-term picture quality control. Additionally, both the RadiForce G51 and G31 come with 9-pin ports for calibration of up to four units by daisy chain support with just one photo sensor.

Wide Selection of Graphics Boards

With the release of the RadiForce G51 and G31, EIZO is now offering the MED Series of graphics boards to supplement the VREngine Series it has been supplying since last year. This allows medical imaging professionals to select the more appropriate board according to desired performance requirements. Both the MED Series and VREngine Series graphics boards contain dual DVI output ports for connection of two RadiForce units, and they provide support for portrait mode for fast, smooth image display. The VREngine Series offers 8-bit display, and the MED Series 8 or 10-bit3 display of grayscales tones.

	Model	Bit Display	RadiForce Monitors
MED Series	MED2mp-AGP	8-Bit	G11, G20, G21, R11, R21 (1 & 2MP Monochrome and Color)
	MED2mp-PCI	8-Bit	
	MED3mp-PPP	8-Bit or 10-Bit	**G31** (3MP Monochrome)
	MED5mp-PPP	8-Bit or 10-Bit	**G31, G51** (3 & 5MP Monochrome)
VREngine Series	VREngine/MD2W	8-Bit Only	G11, G20, G21, R11, R21 (1 & 2MP Monochrome and Color)
	VREngine/MD3W	8-Bit Only	**G31**, FC-2091, FA-2090 (3MP Monochrome and Color)
	VREngine/MD5W	8-Bit Only	**G51** (5MP Monochrome)

Regulatory Compliance

The RadiForce G51 and G31 meet the strictest medical, safety, and EMC emissions standards including UL-2601-1, EN60601, TÜV/GM, and the CE mark.

Accessories

To guard the screen from dust and scratches, EIZO offers optional panel protectors, the RP-901 for the G51 and the RP-802 for the G31. With a light transmission rate of over 99% and anti-reflective coating on both sides, the panel protectors leave almost no trace of implementation.

Availability

The RadiForce G51 and G31 are available worldwide, and the MED Series of graphics boards will be available worldwide in late August.

About EIZO

Eizo Nanao Corporation is a leading global manufacturer of high-end visual display products with a wide product range that includes LCD, CRT, and PDP monitors, and Windows-Based Terminals (thin clients). The image quality, long-term reliability, and innovative features of EIZO monitors make them the product of choice in many financial trading rooms, hospitals, back offices, and design studios throughout the world. EIZO is based in Japan and represented in over thirty countries by a network of exclusive distributors.

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[1]US patent number 6,188, 380.

[2]The Calibration Kit GX1 can only be used with the Microsoft® Windows® NT 4.0, 2000, and XP operating systems.

[3]In addition to the monitor and graphics board, the viewing software must also support 10-bit display for simultaneous on-screen display of 1,024 grayscale tones.

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