RadiForce® G21/G20

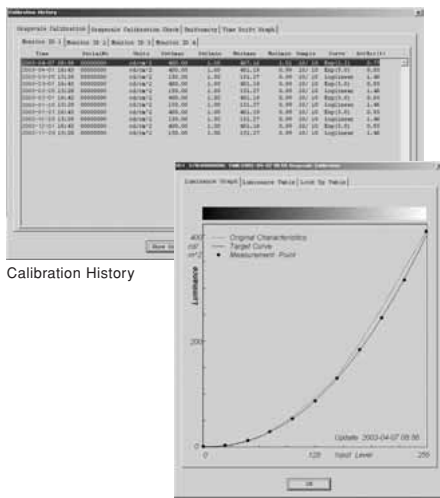## 20.1" CLASS MONOCHROME LCD MONITORS

2 megapixel (1600 x 1200) monochrome monitors with accurate and consistent grayscale rendering for CT, DSA, MRI, and other modalities

1,531 GRAYSCALE TONES

The G21 and G20 incorporate a 10.5-bit Look-Up Table that provides a grayscale palette of 1,531 tones from which 256 can be displayed simultaneously. The result is smooth and accurate rendering of grayscales to match the DICOM curve.

CALIBRATION SUPPORT

Comprised of a photo sensor and software, the optional Calibration Kit GX1 ensures DICOM compliance and allows for fine adjustment of grayscale tones. A calibration history function records all calibration activities for long-term picture quality control.
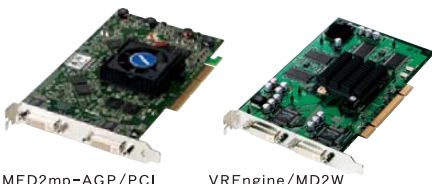
Calibration History

Calibration Results

OPTIONAL GRAPHICS BOARDS

EIZO offers two optional high-speed graphics boards designed specifically for medical imaging. Both boards include dual DVI-I inputs and support portrait and landscape display.
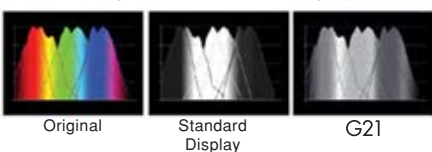
MED2mp-AGP/PCI   VREngine/MD2W
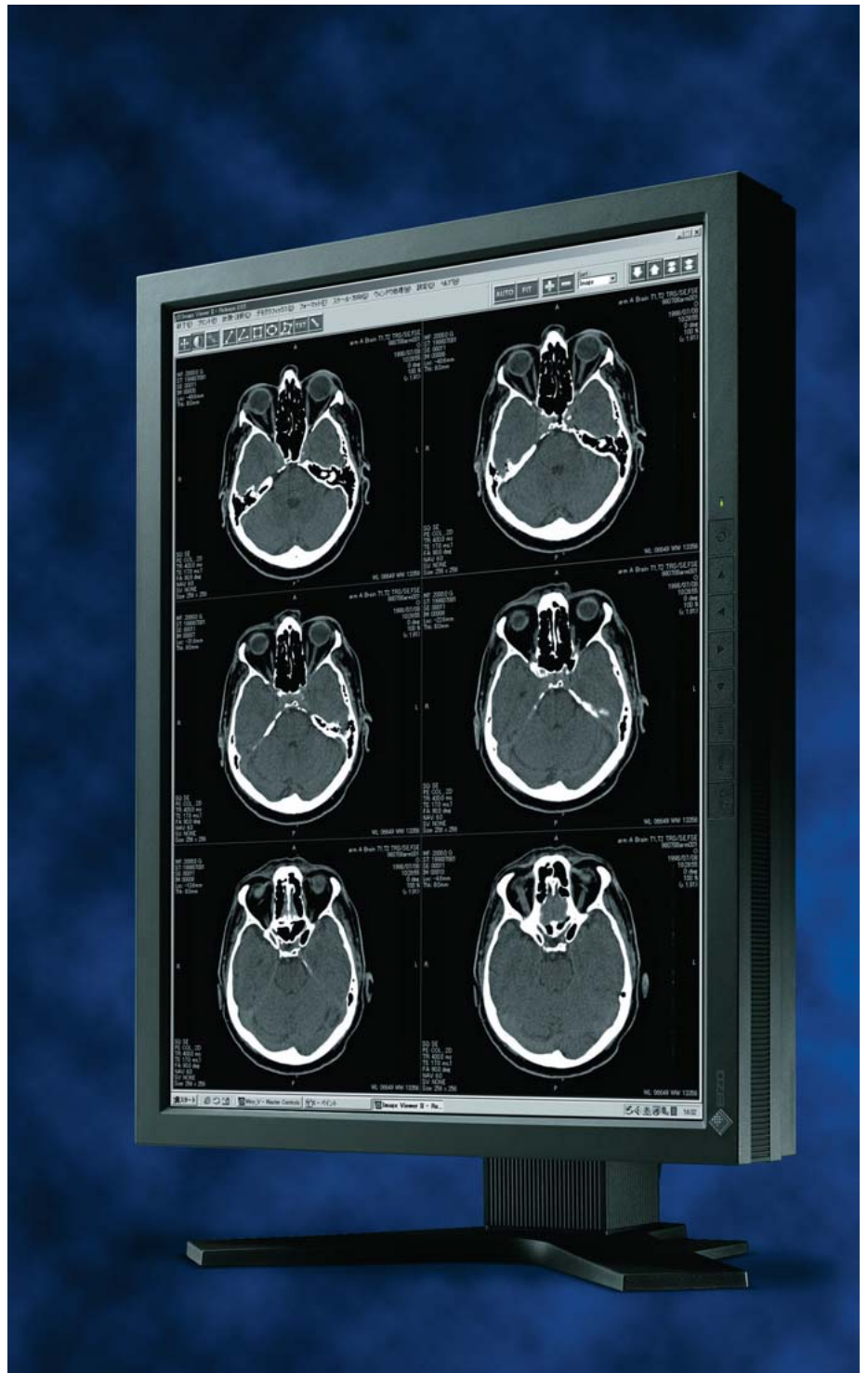
COLOR-GRAYSCALE CONVERSION

When the DVI input receives an RGB signal from a color analog graphics board, a conversion function accurately reproduces the original color brightness differences in grayscale.

Original   Standard Display   G21

RadiForce® G21/G20

20.1" CLASS MONOCHROME LCD MONITORS
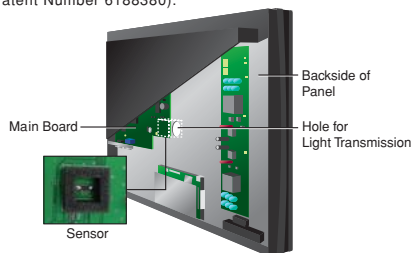
BRIGHTNESS STABILIZATION

● Drift Correction Circuit

Quickly stabilizes the brightness level after startup or coming out of power save mode.

● Auto Brightness Control

The monitor detects and automatically compensates for brightness changes caused by surrounding temperatures and the passage of time for stable brightness and longer service life.

•This brightness stabilization function is EIZO patented technology (Japan Patent Numbers 3171808 and 3193315; US Patent Number 6188380).

Backside of Panel
Main Board
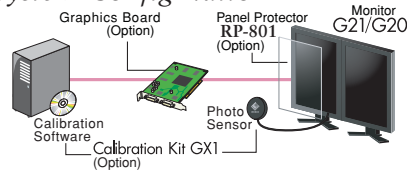Hole for Light Transmission
Sensor

ACTIVEROTATION

When receiving input from an analog graphics board, the RadiForce G21's ActiveRotation function provides hardware support for portrait mode without the need for specialty software. It accomplishes this with no reduction in drawing speed or system stability and eliminates compatibility problems with application software.
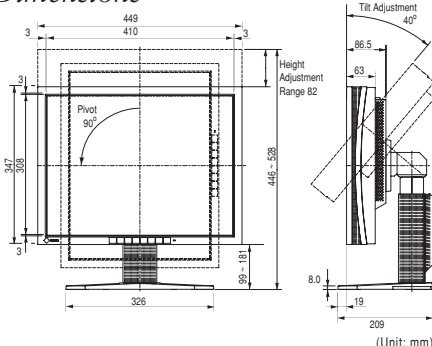
SLIM BEZEL DESIGN

Narrow bezels along all four sides save space and require less eye movement in a multi-panel environment. Other features include an 82 mm height adjustable stand, 40° tilt, 70° swivel, and 90° portrait orientation.

System Configuration

Graphics Board (Option)
Panel Protector RP-801 (Option)
Monitor G21/G20
Calibration Software
Photo Sensor
Calibration Kit GX1 (Option)

Dimensions

449
410
3   3
Height Adjustment Range 82
Pivot 90°
347
308
326
3
Tilt Adjustment 40°
86.5
63
446 – 528
99 – 181
8.0
19
209
(Unit: mm)

Specifications

Panel Size and Type	51 cm (20.1") TFT monochrome LCD panel
Cabinet Color	Black
Pixel Pitch	0.255 x 0.255 mm
Grayscale Tones	256 from a palette of 1,531
Viewing Angles (H, V)	170°, 170°
Scanning Frequency (H, V)	G21: (Analog) 31.5 – 130 kHz, 50 – 85 Hz G21/G20: (Digital) 31.5 – 75 kHz, 60 Hz (VGA Text: 70 Hz)
Native Resolutions	1600 x 1200
Brightness	700 cd/m²
Contrast Ratio	1000:1
Dot Clock	G21: (Analog) 240 MHz G21/G20: (Digital) 162 MHz
Response Time	30 ms (typical)
Input Signals	G21: (Analog) RGB Analog G21/G20: (Digital) DVI Standard 1.0
Sync Formats	G21: Separate, Composite, Sync-on-Green
Input Terminals	G21: DVI-D 29 pin, BNC G20: DVI-D 24 pin
USB Ports / Standard	1 upstream, 2 downstream / Rev. 1.1
Serial Ports	D-Sub 9 pin, (Remote Out), Mini DIN 6 pin (Remote In), Mini DIN 8 pin (Photo Sensor)
Active Display Size (H x V)	408 x 306 mm
Viewable Image Size	510 mm (diagonal)
Plug & Play	VESA DDC 2B
Screen Control	ScreenManager®, One Touch Auto Adjustment Function
Power Requirements	AC 100 – 120V, 200 – 240V: 50 / 60 Hz
Power Management	G21: (Analog) VESA DPMS, G21/G20: (Digital) DVI DMPM
Power Consumption	55 watts
Power Save Mode	Less than 8 watts
Height Adjustment Range	82 mm
Dimensions (W x H x D)	With Stand: 449 x 446 – 528 x 209 mm Without Stand: 449 x 347 x 86.5 mm
Net Weight	With Stand: 10.5 kg, Without Stand: 7.3 kg
Tilt / Swivel	40° Up, 0° Down / 35° Right, 35° Left
Pivot	90°
Certifications & Standards	TÜV/GM (EN60601-1), CE Medical Device Directive, CB (IEC60601-1), cTÜVus (UL2601-1, CSA C22.2 No. 601-1), FCC-A, Canadian ICES-003-A, VCCI-A, FDA, CCC, EIZO Eco Products 2002
Supplied Accessories	AC power cord, user's manual, signal cables (DVI-D – DVI-D, DVI-I – D-Sub), warranty registration card

Accessories

GRAPHICS BOARDS

VREngine/MD2W 8-bit

Graphics Board Specifications

Bus Interface	PCI 32 bit (33 MHz)
Output Terminals	DVI-D x 2
Display Resolutions (portrait mode)[1]	1200 x 1600 / 1024 x 1280 (Single head) 2400 x 1600 / 2048 x 1280 (Dual head)
Display Memory	64 MB SDRAM
Dot Clock	161.9 or 132.5 MHz
Scanning Frequency (H, V)	75 kHz, 60 Hz
Maximum Power Consumption	15 watts

System Requirements

Compatible Operating Systems	Microsoft Windows XP/2000/NT 4.0 (SP 6 or later)
Host Processor Frequency	500 MHz or greater
Main Memory	256 MB or greater

MED2mp-PCI 8-bit
MED2mp-AGP 8-bit

Graphics Board Specifications

Bus Interface	PCI	32 bit (33 MHz) / PCI 64 bit (66 MHz)
	AGP	AGP4x
Output Terminals		DVI-I x 2
Display Resolutions (portrait mode)[1]		up to 1200 x 1600 (Single head) up to 2400 x 1600 (Dual head)
Dot Clock		162 MHz
Scanning Frequency (H, V)		75 kHz, 60 Hz
Maximum Power Consumption		40 watts

System Requirements

Compatible OS	Microsoft Windows XP/2000/NT 4.0 (SP 6 or later)
Host Processor Frequency	600 MHz or greater
Main Memory	128 MB or greater

[1] Landscape mode also supported.

CALIBRATION KIT

RadiForce® Calibration Kit GX1
Includes photo sensor and calibration software.

PANEL PROTECTOR

RP-801
Protects panel from dust and scratches.

DUAL HEIGHT ADJUSTABLE STAND

LS-HM1-D
Holds two monitors, offers a height adjustment range of 75 mm in 6 stages, and supports portrait and landscape orientation.

CLIENT MANAGEMENT SOFTWARE

Screen Administrator™
Enables various setup and management tasks of the G21/G20 and their assigned PC to be executed across a network from a single server PC.

Specifications are subject to change without notice.

EIZO®