



# DIAMOND PRO® 1010e

21" CRT (19.7" diagonal viewable image)

Designed To Provide  
Impeccable Screen  
Performance  
And Complete  
Image Control.



The DIAMONDTRON hybrid CRT tube incorporates a cylindrical, vertically-flat, square-cornered faceplate with an aperture grille mask design and Mitsubishi's advanced P-NX DBF electron gun which vastly improves corner focus and screen focus uniformity by reducing beam spot size.



The Diamond Pro 1010e is a 21-inch (19.7" diagonal viewable image) color monitor specifically designed for the most demanding imaging and CAD/CAM/CAE professionals requiring impeccable screen performance and image control.

- DIAMONDTRON™ CRT with a 0.26 mm aperture grille pitch throughout the entire screen, P-NX DBF (Dynamic Beam Focusing) electron gun and high-contrast optical-quality coating
- Tubular steel "pipeframe" holds tension mask in place, allowing for more effective internal degaussing and improved beam landing and white uniformity
- 1800 x 1440/76 Hz high refresh rate maximum non-interlaced addressable resolution
- Microprocessor-based 30 to 115 kHz horizontal auto-scan range and 240 MHz video clock frequency
- Digital Dynamic Convergence and Picture (DDCP) divides screen into 25 segments and precisely realigns RGB beams, resulting in perfect horizontal and vertical convergence
- Four-corner purity control for maximum image uniformity, sharpness and clarity
- On-screen display (OSD) control system with icon-based control panels and intuitive front-panel buttons; includes VESA's Generalized Timing Formula (GTF)
- Optional USB self-powered hub is field-upgradable
- Cross-platform compatibility with IBM®, Apple® and UNIX® workstation graphic standards
- Diamond Control™ computer-controlled display adjustment software kit and DiamondMatch™ Color Calibrator CD available (for the U.S.A. only)
- Backed by Mitsubishi's Diamond Edge: dedicated corporate sales force; three-year limited warranty; Corporate Partners Program; and nationwide service centers



**MITSUBISHI**  
DISPLAY PRODUCTS  
*Innovation On Display*™

Award-winning DIAMONDTRON Technology

# DIAMOND PRO® 1010e COLOR MONITOR



Providing the industry's most powerful graphics display, Mitsubishi Electronics America, Inc. expands its renowned line of DIAMONDTRON™ aperture grille monitors with the new 21-inch (19.7-inch diagonal viewable image) Diamond Pro® 1010e. Featuring the latest in monitor technology, the unit includes the company's most advanced CRT design, a 0.26 mm aperture grille pitch from edge to edge, and proprietary Digital Dynamic Convergence and Picture (DDCP).

The Diamond Pro 1010e is specifically designed for the most demanding imaging and CAD/CAM/CAE professionals requiring impeccable screen performance and complete image control. With an improved aperture grille frame, the Diamond Pro 1010e is the only 21-inch aperture grille monitor in the industry that offers a true 0.26 mm pitch throughout the entire screen, sustaining a sharp, bright picture. Rendering a superior 240 MHz video clock frequency, a maximum non-interlaced addressable resolution of 1800 x 1440 at 76 Hz refresh, and a 30 to 115 kHz horizontal scanning range, this monitor provides the ultimate tool for today's high-end graphics, production, and engineering applications.

Providing revolutionary screen performance, Mitsubishi's proprietary Digital Dynamic Convergence and Picture (DDCP) allows precise full-screen convergence correction. By dividing the screen into 25 segments, DDCP enables independent control of each segment for precise alignment of the red, green, and blue beams, resulting in perfect horizontal and vertical convergence.

In addition, the Diamond Pro 1010e includes a new corner purity control. While the circuitry used in the monitor automatically adjusts the purity of the entire screen, the corner purity control addresses each individual corner, ensuring image uniformity and unprecedented sharpness and clarity. The control provides the versatility necessary to address local magnetic conditions of certain environments, guaranteeing flawless purity. Also, Mitsubishi has incorporated exclusive sensing circuitry for automatic compensation of terrestrial magnetic field deviation both horizontally and vertically.

Furthermore, through the OSD, the VESA Generalized Timing Formula (GTF) function enables automatic sizing and centering of all GTF-based timing formats.

SPECIFICATIONS	FEATURES	BENEFITS
CRT Type	DIAMONDTRON™	Mitsubishi is the creator of DIAMONDTRON and now offers an improved, second-generation design.
CRT Size	21" (19.7" diagonal viewable image)	Designed for the most demanding imaging applications including advanced graphics and CAD/CAM/CAE.
CRT Pitch	0.26 mm aperture grille	Ultra-fine aperture grille for all high-resolution applications. EBU (P22E) phosphors.
CRT Faceplate Glass	Optical-quality, high-contrast, anti-static and anti-glare CRT coating (39% light transmission)	Minimizes reflected ambient light. Allows high-resolution images to retain their intended vibrancy and clarity.
Display Area Size (W x H)	15.7 x 11.8" (400 x 300 mm)	Larger viewing areas than comparable flat-square models. (Recommended, but adjustable).
Maximum Addressable Resolution Format (H x V pixels)	1800 x 1440/76 Hz NI	Compatible with IBM®, UNIX®, Apple® Macintosh®, Power Macintosh and third-party graphics standards.
Auto-Scan Range	H: 30 - 115 kHz V: 50 - 152 Hz	Monitor will automatically "lock on" to any RGB analog signal within its wide operating frequency range.
Scan Mode Memory With On-Screen Display	Microprocessor-based	Stores user and factory-calibrated timing parameters for up to 25 different modes.
Color Temperature	3 preset positions, (9300°, 6500° and 5000°K) adjustable from 5000° to 9300° in 50° increments (all user definable)	Permits custom set-up of on-screen color balance for desktop publishing, broadcast video graphics, and other color critical applications.
Video Clock Frequency	240 MHz	Precise display of pixels at higher resolutions.
Convergence Correction	DDCP (Digital Dynamic Convergence and Picture)	Proprietary technology allowing precise full-screen horizontal and vertical convergence correction.
Input Connectors	VGA/BNC(5)	Automatic or user selectable.
Auto-Calibration	Internal or VESA-GTF	Single touch image sizing and centering.
Input Signal	Analog RGB: TTL H/V and C Sync.	Separate or composite and sync on green.
Signal Cable	6 ft. (1.8 m) length	VGA/VGA (D-Sub 9-15 HD)
Cable Accessories	Macintosh adapter included	Macintosh System 7.0
Software Kits* (Windows or Macintosh)	Diamond Control™	Computer-controlled adjustment of all display set-up parameters, as well as a self-sufficient power-management system.
	DiamondMatch™ Color Calibrator CD	Provides accurate on-screen printer output color management.
USB (Universal Serial Bus) (OPTIONAL)	USB self-powered hub; 4 downstream ports, 2 upstream ports, (500mA per downstream port)	Plug multiple peripherals, including keyboard and mouse, into a common link.
Power Requirements	100-120 or 220-240 VAC; 50/60 Hz	Auto-sensing all-world power compatibility.
Power Consumption	195 W (approx).	Low power consumption.
Power Cord	5 ft. (1.5 m) U.S. version cord with 3P plug	Included/detachable.
Compact Tilt/Swivel Base	Integrated with monitor	Viewing angle is adjustable for user comfort.
Dimensions (W x H x D)	19.7 x 19.3 x 19.2" (500 x 490 x 488 mm)	Smaller than most comparable monitors.
Weight	81.6 lbs. (37 kg)	
Packing Carton (W x H x D)	24.8 x 24.8 x 25.4" (630 x 630 x 647 mm)	
Shipping Weight	88.2 lbs. (40 kg)	
Regulatory Approvals	UL/cUL/DHHS/HWC/FCC-Class B/MPR-II TCO-95/CE Mark/TUV-ERGO/EPA/NUTEK	Electrical safety/x-ray emissions/EMI-RFI. Complies with USA/Canadian standards. Low magnetic emission design.
Plug And Play	VESA DDC-1 & 2B	Easy to install and use/asset management.
Power Management	VESA DPMS	Save energy and resources when used on compatible systems.
Warranty/Support	Three-year parts and labor limited warranty	Protected investment with guaranteed lower cost of ownership.

Corporate Partners Program Available to qualifying accounts only 48-hour warranty exchange for qualifying accounts.  
For more information on the Diamond Pro 1010, or any of Mitsubishi's other 14" to 50" (14.0" to 50.0" diagonal viewable image) color monitors or projectors, call Mitsubishi Electronics today. Detailed technical specifications available upon request.

Monitor Part Number: DP1010e

\*Coupon for Diamond Control and DiamondMatch Color Calibrator CD included free of charge in each box.

Note: Free software coupon offered in the U.S.A. only.

Authorized Mitsubishi Electronics Reseller:

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