TriDigital HD4K

Reference Projection System

Reference Projection System

- For use in
  - Post production suites
  - Digital mastering
  - Medical
  - High end pro-sumer
- Screen sizes to 20 feet wide
- Tridigital™ image processing
- Projected image has the look and feel of film
- Wide signal compatibility
- Surprisingly small footprint
- Quiet and economical operation

The clarity of digital.
The look of film.

A high performance projection system for post production suites and similar critical viewing environments.

If you depend on the faithful reproduction of imaging content, or you simply demand the best image quality possible, consider the NEC TriDigital™ HD4K. The TriDigital HD4K represents an affordable display device for all mission critical imaging applications in screen sizes up to 20 feet in width.
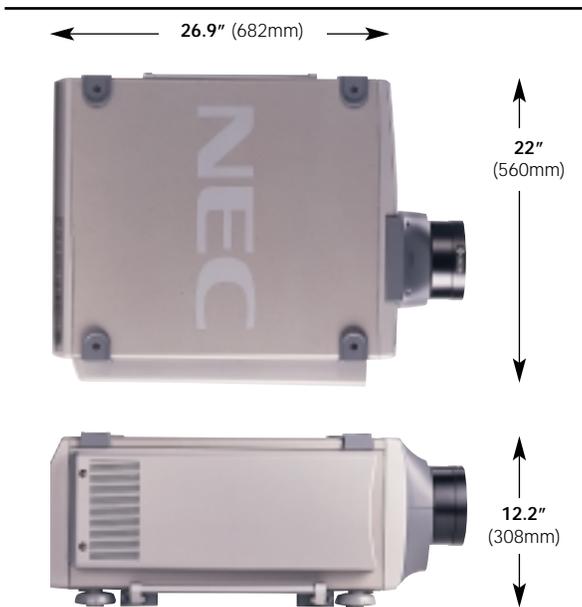
NEC has engineered a replacement technology for the ordinary video decoder called TriDigital Image Processing. TriDigital Image Processing entails three key steps to optimally decode film transfer material for digital projection. First, the ColorBit™ Pre-Processor decodes incoming signals to satisfy the unique requirements for film based materials. The Deep BlackBit™ Decoder then extracts the maximum dynamic range of the original filmed image to produce deep, dark blacks that still exhibit the contrast and detail of the original film material. This is achieved without increasing the background noise level or producing detail contours inherent in conventional electronic projector systems that attempt to deliver dark area detail. Lastly, the Wide ColorBit™ Post-Processor manufactures an image that overcomes the RGB characteristics of the projector - characteristics that would otherwise make the image appear as video. This element of the process is crucial because film is not an RGB medium, but instead, dye particulates suspended in an emulsion that interact with the light from a traditional mechanical projector. This is the essence of the look and feel of film. The TriDigital Image Processing system strives to duplicate the "age-old" mechanical and optical/light interaction of film within the "new-age" digital domain.

In addition to the display of the highest fidelity of film based material, images from virtually any source can be displayed on the TriDigital HD4K. This would include private or open DSS satellite, DVD, VHS, video servers, DigiBeta decks and many other sources. The TriDigital HD4K can also display a multitude of video standards both analog and digital such as NTSC, PAL and SECAM, SDTV, HDTV in 4:3 and 16:9 aspects and an incredible assortment of computer generated images.

TriDigital HD4K

26.9" (682mm)

22"
(560mm)

12.2"
(308mm)

Special Features

Advanced AccuBlend™	Ensures detailed images when non-native resolution sources are connected to the projector
AutoSense™	Automatic set-up and one touch adjustments for ease of use

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NEC defines a reference display as one that can be critically calibrated so image fidelity, color accuracy, detail, white uniformity and natural flesh tones are faithfully replicated to the highest possible standards. TriDigital Image Processing overcomes the negative RGB video characteristics that compromise the true and accurate reproduction of images in contemporary projection systems. Simply put, NEC TriDigital Projectors deliver...The clarity of digital. The look of film

DLP

For more information, call **(800) NEC-INFO**
or visit **www.necvisualsystems.com**

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Optical

Panel	DMD™ .9" x 3 1280 x 1024 native resolution 1600 x 1200 compatible with Advanced AccuBlend™ Technology
Lamp	1.0kW Bubble Type Short Arc Xenon Lamp
Lamp Life	1000 hours
Light Output	3500 ANSI Lumens at 200/240V Operation
Lens Mount	Motorized Horizontal & Vertical Lens Shift Indexed Zoom and Focus Built-in Lens Shutter
Lens Options	1.5 to 2.5:1 (Indexed-Power Zoom & Power Focus) 2.5 to 4.0:1 (Indexed-Power Zoom & Power Focus) 4.0 to 7.0:1 (Power Zoom & Power Focus) .84:1 (Short throw)
Image Size	80 to 500 inches diagonal

Electrical

Scan Rate	Horizontal 15 to 107kHz Vertical 24 to 120Hz Pixel Clock 200MHz
Inputs	RGB/YCr/Pr, Cb/Pb (2) 5-BNC RGB H(HV),V (1) D-sub 15-pin Y-Pb-Pr/Y-Cb-Cr (1) 3-RCA Video (1) BNC (1) RCA S-Video (1) S-Video Terminal Y/C (1) 2-BNC PC CARD (1)
Digital I/O	RGB DIGITAL (Option) (1) DVI-D PanelLink 24-pin (Max resolution: SXGA 60Hz) (1) DVI-D Process Out 24-pin SDI (Option) (1) BNC (1) BNC Loop-out Component SMPTE 292M
Input Compatibility	NTSC, PAL, SECAM, HDTV (1080i, 720p, 480p), VGA, SVGA, XGA, SXGA, UXGA, MAC
Video	3D Y/C Separation Telecine Detect: 3:2 pull down correction
Display Resolution	RGB: 1280 x 1024 NTSC/PAL: 500 TV Lines SECAM: 300 TV Lines
Acceptable Sync	Separate Sync/Composite Sync/Sync on Green
Memory	100 individual memory locations, PCMCIA Data Back-up
Menu	Pull down multilingual on–screen display-Systems English/German/French/Italian/Spanish/Swedish/Japanese
Keystone Correction	Digital through Advanced AccuBlend™ Technology Range 0° to ±7.5°
External Control	RS232-C (1) D-sub 9-pin / Contact Closure Switcher (2) D-sub 15-pin In/Out Addressable Remote Control (wired/wireless)
Power Requirement	110-120 or 200-240 VAC at 50/60Hz (200-240 recommended)
Input Current	11A at 120V, 7.5A at 240V
Power Consumption	1.1 kW at 120V, 1.5kW at 240V

Mechanical

Installation Orientation	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
Dimensions	22.0" (W) x 26.9" (D) x 12.2" (H) w/feet (not incl. lens or handles) 560mm(W) x 682mm(D) x 308mm(H) w/feet (not incl. lens or handles)
Net Weight	94.8 lbs (43 Kg)
Fan Noise	51db
Environment	Operational Temperature: 40° to 95°F (5° to 35°C) Humidity: 20 to 80% non-condensing Storage: 14° to 122°F (-10° to 50°C)
Regulations	USA UL 1950 FCC Class A, Canada CSA 950 (C-UL)
Accessories	Users manual, wired/wireless included addressable remote control, power cable, remote cable
Warranty	Projector:1-year limited, parts and labor (Excluding lamp) Lamp: 90 days 1000 hours – whichever comes first

Product/Accessories

Order Code	Product Description
TL-1Z	1.5-2.5:1 Zoom lens
TL-1Z - X	1.5-2.5:1 Super High Contrast Zoom lens
TL-2Z	2.5-4.0:1 Zoom lens
TL-4Z	4.0-7.0:1 Zoom lens
TL-08SF	0.84:1 Fixed short throw lens
SX HD SDI	HD Serial interface board
XT SDI	SDTV Serial interface board
XT-CMKIT	Ceiling mount kit XTLP
XT40LP	Re-lamp for XT40LH
XT40LH	Lamp with housing for HD4K
XTCASE	Shipping/storage case

Specifications subject to change without notice.