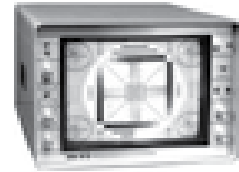


# HR 2000 High Resolution Monochrome Video Monitor



The HR-2000 series is a high performance, ultra high resolution, multi-line rate monitor. It has been specifically designed for use in instrumentation applications such as military tracking systems, document viewing, medical x-ray and video microscopy.

*Model HR-2000 high resolution monochrome video monitor from Dage-MTI*

## FEATURES

- 2000+ TV Lines Resolution
- Auto-locking Scan Rates from 500 to 1235
- Switchable Underscan with Separate Front Panel Controls for Height & Width
- Selectable A-B Video Input Channel
- Variable Video Enhancement
- Separate Data Input Channel
- Video Polarity Reversal
- Variable Aspect Ratio
- 50 mHz Bandwidth
- Differential Input
- DC Restoration
- Dynamic Focus

## SPECIFICATIONS

### ELECTRICAL

Input Voltage	90 to 135 VAC, 50/60 Hz
	180 to 250 VAC, 50/60 Hz
	90 watts maximum at 120V RMS

### INPUT SIGNALS

Video Composite (Channel A or B)	1.0 Vpp nominal (.5V to 2V) Loop thru or switchable to 75 ohm termination
Video Non-composite (Channel A or B)	7 Vpp nominal (.35V to 1.4V) Loop thru or switchable to 75 ohm termination
Digital Data (Channel C)	TTL compatible input (+1V to +5V white positive) Loop thru or switchable to 75 ohm termination. Channel C internally mixes with A & B
Sync	1 Vpp to 8 Vpp. Sync negative or positive. Polarity selectable with rear panel switch

(continued)

## HR 2000 High Resolution Monochrome Video Monitors

### SPECIFICATIONS

(continued)

#### DIFFERENTIAL INPUT

Common Mode Rejection 40dB @ 60 Hz to 1 KHz  
Common Mode Range 16Vpp @ 60 Hz to 1 KHz

#### VIDEO AMPLIFIER

Frequency Response  $\pm 1$ dB, 30 Hz to 50 mHz at full drive  
-3dB, 15 Hz to 65 mHz at full drive  
Switchable Enhancement Adjustable 0 to +18dB at user specified peaking frequency. Also available at 8, 16, 32 and 50 mHz  
Differential Gain Less than 5% for luminance range of 0 to 50 fL.  
Input Impedance 15pf in parallel with 22 Kohm. Loop thru or 75 ohm termination.  
Resolution Greater than 2000 TV lines horizontal resolution. Center to edge at 50 fL luminance  
Grey Scale Greater than 10 shades of grey

#### HORIZONTAL DEFLECTION

Frequency Range 15,000 to 37,000 Hz auto locking  
Retrace Period 5.5  $\mu$ s maximum  
Overscan 20%-front panel adjustable  
Underscan 70%-front panel adjustable

#### VERTICAL DEFLECTION

Frequency Range 15 to 200 Hz auto locking  
Retrace Period 600  $\mu$ s maximum  
Overscan 20%-front panel adjustable  
Underscan 70%-front panel adjustable  
Geometry Less than 2% raster height  
Linearity Less than 1% raster height over full auto frequency range  
Raster Size Regulation Less than 1% change, 0-100% APL  
Power Supply Regulation No visible change in brightness, raster size or resolution over the range of 90V to 135V or 180V to 250V RMS line at 50/60 Hz  
Temperature and Humidity -0°C to +50°C (32° to 95°F) with 10% to 90% relative humidity, non-condensing  
Maximum Usable Brightness Greater than 70 fL  
High Voltage Output 18 KV nominal

#### MECHANICAL

Dimensions 11-7/8" (H) x 16-7/8" (W) x 21-5/8" (L)  
Weight 50 lbs.  
Connectors BNC type with insulated ground  
CRT Size 14" diagonal  
Standard Phosphor Type (P4) white medium persistence



## Dage-MTI (219) 872-5514

Call for additional product information or free product demos.

Visit online at [www.dagemti.com](http://www.dagemti.com).