Dage VE 1000-SIT

Intensified SIT Camera

DAGE-MTI

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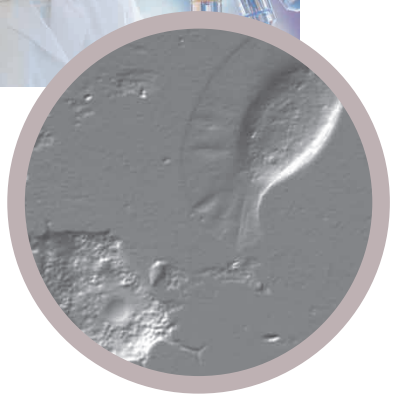

Sample Image from the VE 1000-SIT

•Pictured with optional HR1000 Monitor

Features and Benefits

The VE-1000 SIT is an intensified camera system specifically designed to meet the critical requirements of fluorescence microscopy and other low light level applications that need high performance, extreme flexibility, and maximum image stability.

The front panel control allows for precise automatic or manual operation and offers a multitude of image enhancing functions. The VE-1000 provides maximum contrast enhancement for the most demanding of low contrast imaging requirements.

Real-Time Video Output	Operation at 30 fps
High Performance SIT Tube	Utilizes Silicon Intensified Target (SIT) tube for low light level imaging 750 TV lines resolution Sensitivity 1x 10 (-5) fc
Designed for Quantitative Analysis	Precise, lockable controls for calibrated measurements
Adjustable Image Enhancement	Automatic/manual KV/gain control Automatic/manual black level control Enhance control for optimum sharpness with minimum noise Gamma provides setting of linear for quantitative measurements or compensation for CRT display to improve low contrast images
Adjustable Shading Correction	Dynamic real-time shading correction to correct for camera and optical image shading error
Signal Level Indicator	Facilitates optimum camera set-up and signal-to-noise ratio
High/Low Gain Switch	Provides additional gain boost for low contrast images
Light Overload Protection	Provides visual warning of light overload and automatic system shutdown
Two-Piece Design	Allows for convenient desk-top control of image enhancement features Extended cable lengths available
Ten-Step Grey Scale Test Signal	Allows the user to quickly and correctly set the contrast and brightness on a monitor

Well suited for the following applications:

- Flourescence Microscopy
- Applications requiring high sensitivity in low light level situations

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SPECIFICATIONS

Input Voltage	98 to 135 volts 50/60 Hz or 195 to 250 volts 50/60 Hz
Input Power	25 watts @ 120 volts AC
Vertical Sweep Rate	60 Hz Standard (50 Hz 625 line system)
Horizontal Sweep Frequency	12 KHz to 35 KHz
Scanning	2:1 interlace 525/60 or 625/50 standard Other rates available up to 875/60
Type of Sync and Blanking Waveform	EIA RS-170, RS-330 or RS-343
Sensitivity	Usable pictures can be obtained down to faceplate illumination levels of approximately .00001 fc (using 4804/HP2 SIT tube)
Resolution	750 TVL
Automatic KV/Gain	Greater than 300:1
Grey Scale Rendition	Greater than 10 shades using EIA TV Resolution Chart
Video Output	Composite 1Vpp, black to white .65 volts .3v sync, Black negative polarity; source terminated 75 ohm. Dual isolated video outputs, DC coupled
Geometric Distortion	Within major circle: 2.0% Overall 3.0%
Linearity Distortion	Horizontal 1.5% Vertical 1.5%
Shading	Shading correction to 70% parabolic, 50% ramp and diagonal
External Lock	Lockable to External H&V Drive or Composite Sync
Enhancement	Adjustable 0 to +12db at peaking frequency 7 mHz bandwidth = 5.5 mHz peaking frequency
Video Amplifier	DC coupled output, black reference at ground potential White Clipper Variable Bandwidth/Enhance Automatic Contrast Gamma correction - .5 to 1
Head (less lens)	3-15/16" (H) x 2-3/4" (W) x 10-5/8" (L)
Weight	4.5 lbs. (2kg)
Control Unit	4-1/4" (H) x 12-1/4" (W) x 16-3/4" (L)
Weight	14 lbs. (6.35kg)
Lens Mount	"C" mount
Camera Mount	Two 1/4" x 20 tapped holes
Type of Coaxial Connector:	BNC

Specifications subject to change without notice.

*Shown with optional HR1000 Monitor

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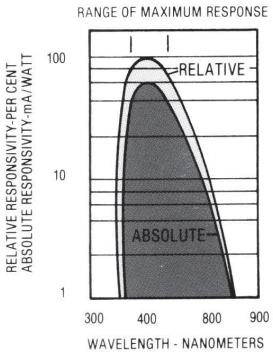
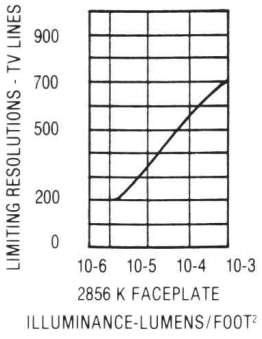
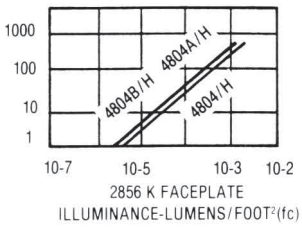
RESPONSE







Dage-MTI **219.872.5514**

Call for product information or for free product demos

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