

Dage 70 Series

Real-Time Video Camera

DAGE-MTI

dage technologies



Features and Benefits

The 70 series real-time video camera is ideal for applications requiring high resolution and precise automatic or manual operation. Designed for quantitative analysis, the front panel controls offer extended gain and black level offset ranges to allow maximum contrast for low contrast imaging.



Sample Image from the 70 Series

| | |
|------------------------------------|---|
| Real-Time Video Output | Operation at 30 fps |
| High Resolution | Up to 1000 TV lines Resolves very fine detail |
| Image Tubes | Newvicon (response from 400-850nm) Lead Sulfide (response up to 2200nm) |
| Designed for Quantitative Analysis | Precise, lockable controls for calibrated measurements |
| Adjustable Image Enhancement | Automatic/manual gain control Automatic/manual black level control Aperture and bandwidth 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 |
| High/Low Gain Switch | Provides additional gain boost for low contrast images |
| Polarity Reversal | Provides inverted grey scale output |
| Grey Scale Stretch levels | Provides a six-fold amplification of user selected grey |
| 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:

- Brightfield, Phase Contrast, and Darkfield Microscopy
- Electrophysiology
- Semiconductor Inspection
- Manufacturing Quality Control
- Failure Analysis

- Teaching Environment

SPECIFICATIONS

Input Voltage 98 to 135 volts 50/60 Hz or 195 to 260 volts 50/60 Hz
 Input Power 18 watts @ 120 volts AC
 Vertical Sweep Rate 60 Hz standard or 50 Hz
 Horizontal Sweep Frequency 12 KHz to 35 KHz
 Scanning 2:1 Interlace, 525/60 or 625/50 standard
 Optional Scan Rates 2:1 Interlace, 559/60, 625/50, 875/60, 945/60, 1025/60 (other scan rates available)

Type of Sync and Blanking EIA RS-170 standard, RS-330, RS-343 optional
 Waveform Newvicon, and Lead Sulphide
 Image Tubes 75 nanoamps of average tube signal current for 1 volt composite output
 Sensitivity Over 12 db at full bandwidth
 Automatic Gain Composite 1 Vpp, black to white .65 volts, .3v sync, black negative Polarity; source terminated 75 ohm. Dual isolated video outputs.
 Video Output Within major circle 0.5% - Overall 1.0%
 Geometric Distortion Horizontal: 0.25% Vertical: 0.25%
 Linearity Distortion Lockable to External H&V Drive or Composite Sync
 External Lock Adjustable 0 to + 12db at user specified peaking frequency
 Enhancement Greater than 18 mHz bandwidth DC coupled output, black reference at ground potential
 Video Amplifier White Clipper
 Variable Bandwidth control
 Automatic Black Level
 Automatic Video Level
 Gamma correction – switchable between 1 and .5
 Options Crystal Control
 External Drive/Sync Lock

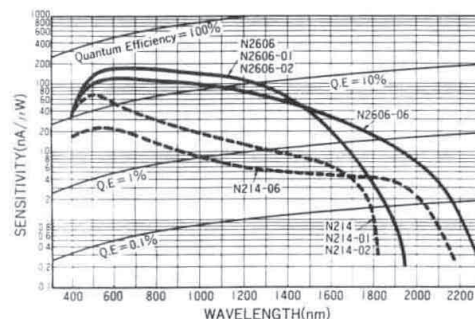
MECHANICAL

Head (less lens) 2-7/8" (H) x 2-3/4" (W) x 9-1/4" (L)
 Weight 2 lbs. 4 oz. (1 Klg)
 Control Unit 3-3/4" (H) x 8-5/8" (W) x 12-3/4" (L)
 Weight 7.2 lbs (3.28 Kg)
 Lens Mount "C" mount
 Camera Mount Two 1/2" x 20 tapped holes
 Type of Coaxial Connector BNC

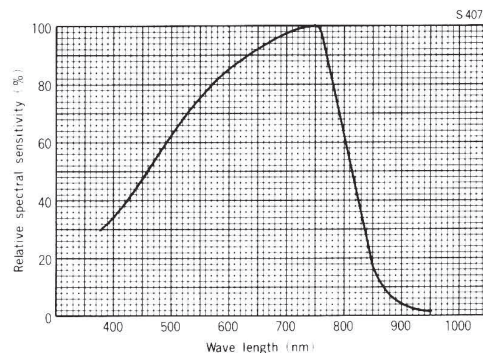


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SPECTRAL RESPONSE



SPECTRAL RESPONSE for 70 Series Lead Sulphide Camera



SPECTRAL RESPONSE for 70 Series Newvicon Camera



Dage-MTI 219.872.5514

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