

MicronViewer 7292M

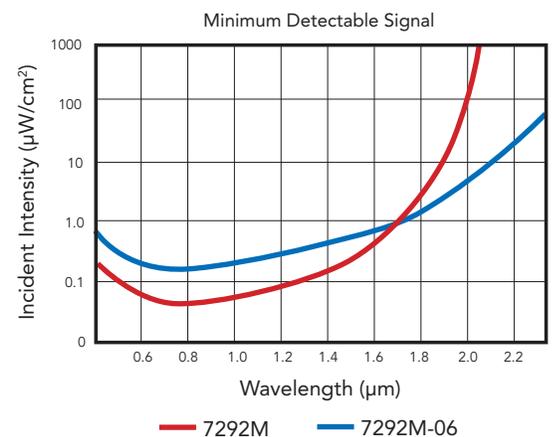
HIGH PERFORMANCE NEAR INFRARED IMAGING CAMERA

The MicronViewer 7292M is a high performance near infrared camera designed for the detection of near infrared radiation in the spectral range from visible to over 2 microns. It is extremely useful for applications requiring high performance, flexibility and maximum stability.

The camera features a separate camera head and control unit facilitating adjustments while the camera is in use. Front panel controls allow for a variety of different optimization methods. Controls for auto/manual gain and black level selection permit the maximum possible contrast enhancement for the most demanding of low contrast imaging applications. Gamma correction permit the optimization of image uniformity. Aperture and bandwidth controls allow for optimum sharpness with minimum noise. A high/low gain switch provides additional boost of 10 μ m contrast images.

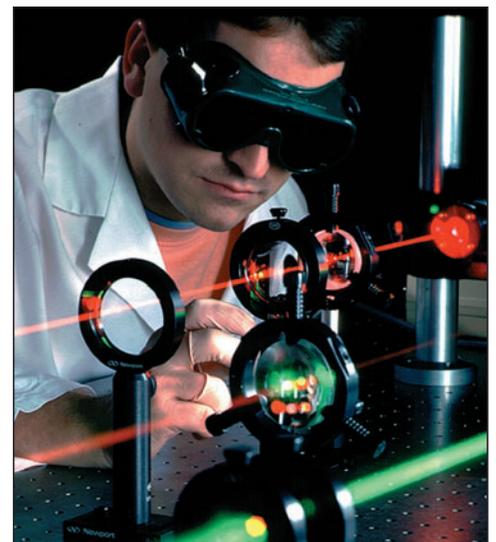
Features:

- Near infrared imaging to 2 μ m
- Two-piece camera/controller design
- Adjustable gain/black level for contrast improvement
- Aperture, bandwidth and gamma correction for image optimization



APPLICATIONS

- Laser beam profiling and/or analysis: Nd:YAG (1.3 μ m), Er:Glass (1.5 μ m), Ho:YAG (2.1 μ m)
- Viewing and aligning IR sources
- Thermal imaging of objects hotter than 250°C
- Moisture detection
- Forensic analysis
- Semiconductor sub-surface inspection



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TWO-PIECE NEAR INFRARED CAMERA

SPECIFICATIONS			
Spectral Sensitivity	0.4 to 1.9 μm (7292M); 0.4 to 2.2 μm (7292M-06)	Size (LxWxH)	Head (w/o lens): 9 $\frac{1}{4}$ " x 2 $\frac{3}{4}$ " x 2 $\frac{7}{8}$ " Control Unit: 12 $\frac{3}{4}$ " x 8 $\frac{5}{8}$ " x 3 $\frac{3}{4}$ "
Horizontal Resolution	Up to 700 TV lines	Weight	Head (w/o lens): 2.25 lb. Control Unit: 7.2 lb.
Dynamic Range	120:1 (7292M); 60:1 (7292M-06)	Mounts	1.0"-32 lens C-mount thread; Two $\frac{1}{4}$ "-20 UNC-2B tripod mount on base of head
Scanned Area	9.5 x 12.7 mm ²	Ambient Temperature Range	Operating: -20°C to +65°C (-4°F to +149°F)
Damage Threshold	1 mW/cm ² (CW), 10 mJ (pulsed)	Controls	Auto/Manual Gain – to optimize contrast Auto/Manual Black Level – to set the darkest portion of image Gamma Adjustment – to expand dark scenes or set to unity linearity. Polarity – allows for selection of normal or inverted image Enhance – image sharpness
Decay Lag after 50 ms	45-60%	Video Output Connector	BNC
Sweep Rate	RS-170 (7292M, 7292M-06); CCIR (7292ME, 7292M-06E)	Sync Input Connector	BNC
Scanning	2:1 interlace		
Geometric Distortion	$\pm 0.5\%$ in circle of picture height, 1% overall		
Linearity Distortion	0.25%		
Synchronization	Lockable to External H&V Drive or Composite Sync		
Power	18 W @ 120 VAC		
Voltage Requirement	98-135 V, 50/60 Hz or 195-260 V, 50/60 Hz		

Because of ongoing product enhancements, specifications are subject to change without notice.

ORDERING INFORMATION

ITEM	PART NO.	DESCRIPTION
7292M MicronViewer	914955	Fixed-mount camera 0.4-1.9 μm RS-170 60Hz video output. No lens. Includes AC power supply.
7292M-06 MicronViewer	914957	Fixed-mount camera 0.4-2.2 μm RS-170 60Hz video output. No lens. Includes AC power supply.
7292M-E MicronViewer	914954	Fixed-mount camera 0.4-1.9 μm CCIR 50Hz video output. No lens. Includes AC power supply.
7292M-06E MicronViewer	914956	Fixed-mount camera 0.4-2.2 μm CCIR 50Hz video output. No lens. Includes AC power supply.
1X Objective Lens	915229	25mm F1.8 with integral iris diaphragm
2X Objective Lens	903020	50mm F1.4 with integral iris diaphragm
0.5X-3X Zoom Objective Lens	908006	12.5-75mm F1.2 with integral iris diaphragm
Extension Tube Set	908007	Set of spacers that fit between lens and camera permitting close focusing
1" Long Pass Filters		Select cut-on wavelength (nm): 700, 750, 800, 850, 900, 950, 1000, more
1" Short Pass Filters		Select cut-off wavelength (nm): 700, 750, 800, 850, 900, 950, 1000, more
1" Band Pass Filters		Select center wavelength (nm): 700, 710, ..., 1050, 1060, more
1" Neutral Density Filters		Select optical density: 0.1, 0.2, ..., 0.9, 1.0, 1.5, 2.0, 3.0, more

Contact us today to discuss how our near infrared cameras can meet your application requirements.


**Infrared Imaging
Cameras**
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