

MicronViewer 7290A

FIXED-MOUNT INFRARED IMAGING CAMERA

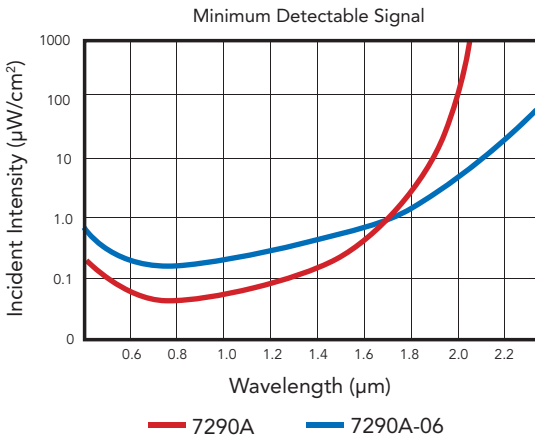
MicronViewer 7290AX

PORTABLE INFRARED IMAGING CAMERA

7290A shown with optional 25mm objective lens



The 7290AX includes a rechargeable shoulder pack battery, viewfinder with diopter focus and adjustable handstrap.



The MicronViewer 7290A and 7290AX models combine many unique features and benefits in one versatile and affordable camera: broad spectral response (400nm to over 2μm), excellent sensitivity and resolution, RS-170 60Hz or CCIR 50Hz video output, a variety of optional lenses and filters, and fixed-mount or handheld configurations, as well as extended-response versions!

- Accepts a variety of C-mount objective lenses
- Integral optical filter slide permits use of 25mm long-pass, short-pass, band-pass or neutral density filters
- 3-position manual gain or auto gain
- Standard video output: RS170 (60Hz) or CCIR (50Hz)
- Gen-lock input
- Tripod mount
- High-performance, lead-oxysulfide vidicon, 9.5 x 12.7mm imaging detector

APPLICATIONS

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

MicronViewer 7290A

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MicronViewer 7290AX

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SPECIFICATIONS			
Spectral Sensitivity	0.4 to 1.9 μm (7290A, 7290AX); 0.4 to 2.2 μm (7290A-06, 7290AX-06)	Voltage Requirement	12-15VDC (7290A, 7290AX); Rechargeable battery and recharger (7290AX)
Horizontal Resolution	Up to 700 TV lines (7290A, 7290AX); Up to 650 TV lines (7290A-06, 7290AX-06)	Size (LxWxH)	9" x 4" x 3" (22x10x7 cm)
Dynamic Range	100:1 (7290A, 7290AX); 50:1 (7290A-06, 7290AX-06)	Weight	1.13kg, 2.5lb. (7290A); 1.52kg, 3.2lb. (7290AX)
Scanned Area	9.5x12.7mm ²	Mounts	1.0"-32 lens C-mount thread; ¼"-20 UNC-2B tripod mount on base Filter Slide accepts 25mm filters
Damage Threshold	1mW/cm ² (CW), 10mJ (pulsed)	Ambient Temperature Range	Operating: -20°C to +50°C (-4°F to +122°F) Storage: -54°C to +70°C (-65°F to +158°F)
Decay Lag after 50ms	45-60%	Gain Control	Three manual positions or automatic
Sweep Rate	RS-170 (7290A, 7290AX); CCIR (7290A-E, 7290AX-E)	Shading Correction	Internal control
Scanning	2:1 interlace	Sensitivity (target)	Internal control
Signal-to-Noise Ratio	55db (p-p/rms) or better	Video Output Connector	BNC
Deflection Distortion	±2% in circle of picture width	Sync Input Connector	BNC
Synchronization	Internal/Genlock (composite)	Power Connector	4-pin
Power	6W, 500mA		

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

ORDERING INFORMATION

ITEM	PART NO.	DESCRIPTION
7290A MicronViewer	914007	Fixed-mount camera with RS-170 60Hz video output. No lens. Requires AC power supply
7290AX MicronViewer	914059	Fixed-mount camera with RS-170 60Hz video output. Includes 1X 25mm Objective Lens, rechargeable shoulder pack and AC adapter/battery recharger
Option -06: Extended spectral range		Extends the sensitivity range of the standard camera to 2.2 μm
Option -E: CCIR video format		Video format is CCIR 50Hz
1X Objective Lens	914566	25mm F1.3 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
G25 Filter Slide (extra)	914260	Holder for 1" filters
9" Bench-top Monitor	911000	120VAC, black and white
9" Bench-top Monitor	911002	240VAC, black and white
6' Video Cable	911001	
Camera Power Supply	905026	for 120VAC, includes 6' cord
Camera Power Supply	905027	for 240VAC, includes 6' cord



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