MicronViewer 7290A

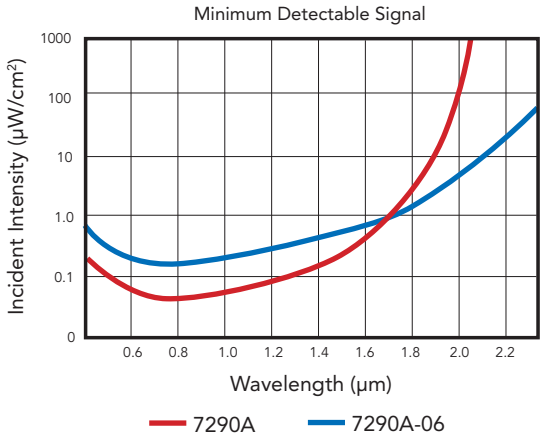
FIXED-MOUNT INFRARED IMAGING CAMERA

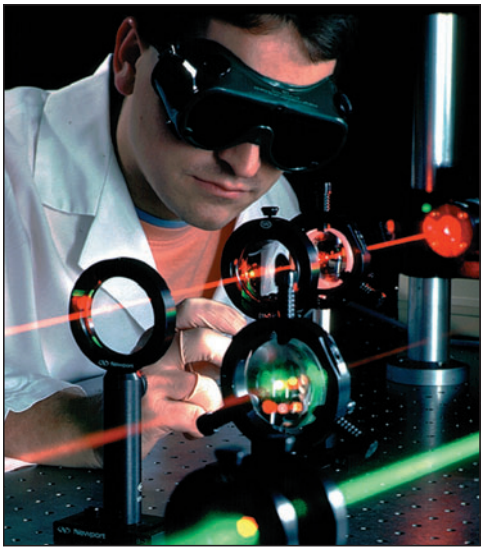
MicronViewer 7290AX

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

FIXED-MOUNT INFRARED IMAGING CAMERA

MicronViewer 7290AX

PORTABLE INFRARED IMAGING CAMERA

SPECIFICATIONS

Spectral Sensitivity	0.4 to 1.9 µm (7290A, 7290AX); 0.4 to 2.2 µm (7290A-06, 7290AX-06)
Horizontal Resolution	Up to 700 TV lines (7290A, 7290AX); Up to 650 TV lines (7290A-06, 7290AX-06)
Dynamic Range	100:1 (7290A, 7290AX); 50:1 (7290A-06, 7290AX-06)
Scanned Area	9.5 x 12.7 mm^2
Damage Threshold	1 mW/cm^2 (CW), 10 mJ (pulsed)
Decay Lag after 50 ms	45-60%
Sweep Rate	RS-170 (7290A, 7290AX); CCIR (7290A-E, 7290AX-E)
Scanning	2:1 interlace
Signal-to-Noise Ratio	55db (p-p/rms) or better
Deflection Distortion	±2% in circle of picture width
Synchronization	Internal/Genlock (composite)
Power	6 W, 500 mA

Voltage Requirement	12-15 VDC (7290A, 7290AX); Rechargeable battery and recharger (7290AX)
Size (LxWxH)	9"x 4"x 3" (22 x 10 x 7 cm)
Weight	1.13 kg, 2.5 lb. (7290A); 1.52 kg, 3.2 lb. (7290AX)
Mounts	1.0"-32 lens C-mount thread; ¼"-20 UNC-2B tripod mount on base Filter Slide accepts 25mm filters
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)
Gain Control	Three manual positions or automatic
Shading Correction	Internal control
Sensitivity (target)	Internal control
Video Output Connector	BNC
Sync Input Connector	BNC
Power Connector	4-pin

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 2.2µm
Option -E: CCIR video format		Video format is CCIR 50Hz
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
G25 Filter Slide (extra)	914260	Holder for 1" filters
Camera Power Supply	905026	for 120VAC, includes 6' cord
Camera Power Supply	905027	for 240VAC, includes 6' cord

Contact us today to discuss how the MicronViewers 7290A and 7290AX can meet your application requirements.

SOFRADIR-EC Infrared Imaging Cameras
formerly Electrophysics Infrared Imaging Cameras

Groupe SOFRADIR

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