

Shortwave Infrared MicroCamera SU320US-1. 7RT



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VENDOR DESCRIPTION

The miniature 320US Indium Gallium Arsenide MicroCamera allows high-resolution video-rate **detection and identification** in the Shortwave Infrared range (SWIR: 900-1700 nm). The ultra-small (<26 cm³), lightweight (<60 g), low-power (<1.2 W) camera outputs analog video compatible with any television as well as 12-bit digital data in the Camera Link[®] format.

This all-solid-state camera with Automatic Gain Control and gamma correction is capable of imaging with CW or pulsed light sources or ambient light. It is more sensitive to 1.06 μm laser designators, illuminators, and rangefinders than Silicon imagers and detects 1.55 μm covert eye-safe laser designators, which are otherwise undetectable.

The camera is supplied with 16mm and 25mm lenses using M12 x 0.5 threads, a C-mount adaptor, cables, and sample LabView software files.



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Business Category: Small Business

PIR

Power Source		Environmental	
Inputs:	6 to 16 VDC, 1.2 W at 25° C Draws 0.75 W in standby mode Can be battery powered	High Temp	+35°C (without heat sink)
Outputs:	RS-170 or CCIR flat field corrected analog video, progressive or interlace	Low Temp	+5°C (without heat sink)
AC wall transformer supplied with camera:		Storage Temp	-10° to 60°C
Input:	100-240 VAC, 50-60 Hz	Altitude	Not specified
		Humidity	99% relative humidity per MIL-STD-810E
		Immersion	Cannot be immersed in water
		Can be customized for a given application or environmental conditions	

Sensor	Description	Detection	Size/Weight	Features
Passive Infrared	InGaAs Focal Plane Array NEI: < 2 x 10 ⁹ photons/cm ² /s 320 x 256 format with square 25 μm pixels Programmable integration time from 1 μs to the video frame time of 16.25 ms SWIR band (0.9 to 1.7 μm) Thermoelectric cooler to stabilize FPA dark current over +5° to + 35°C operating range	Lens-dependent Uses standard glass camera optics with micro-lens mount	Size: < 26 cm ³ 58.4 x 28.0 x 16.5 mm Weight: 0.060 kg, 0.070 kg w/lens	<ul style="list-style-type: none"> ■ Capable of imaging targets illuminated by eye-safe light sources that are undetectable (covert) to night vision goggles ■ Uniformity corrected video & digital outputs ■ RS-422/232 serial control ■ 12-bit digital data output via Camera Link