

Shortwave Infrared MiniCamera SU320MX-1. 7RT



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VENDOR DESCRIPTION

The compact 320MX Indium Gallium Arsenide MiniCamera allows video-rate **detection and identification** in the Shortwave Infrared range (SWIR: 900-1700 nm) with **very high sensitivity**. The compact (<285 cm³), lightweight (<300 g), low-power (<1.6 W) camera outputs analog video compatible with any television as well as 12-bit digital data via RS-422.

This all-solid-state camera is capable of imaging under day and night conditions, including under starlight. It is more sensitive to 1.06 μm laser designators than Silicon imagers and can detect 1.55 μm eye-safe covert laser designators, which are otherwise undetectable.

The camera is supplied with 25mm, f/1.4 C-mount lens, cables and sample LabView software files.



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Business Category: Small Business

PIR

| Power Source | Environmental |
|---|---|
| Inputs: 3 to 5 VDC, <0.6 A at 25° C Outputs: RS-170 or CCIR flat field corrected analog video, progressive or interlace AC wall transformer supplied with camera: Input: 100-240 VAC, 47-63 Hz | High Temp +40°C (without heat sink) Low Temp -10°C (without heat sink) Storage Temp -10° to 60°C 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: <3x10 ⁸ photons/cm ² /s 320 x 240 format with square 40 μm pixels Programmable integration time from 127 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 -10° to + 40°C operating range | Lens-dependent Uses standard glass camera optics with C-mount (1"-32) | Size: < 285 cm ³ 5 x 6 x 9.5 mm Weight: 0.30 kg w/o lens | <ul style="list-style-type: none"> ■ Capable of day and night imaging ■ 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 RS-422 |