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Find the *Sensors Unlimited SU320-1.7RT-V/RS170* at our website: *Click HERE*

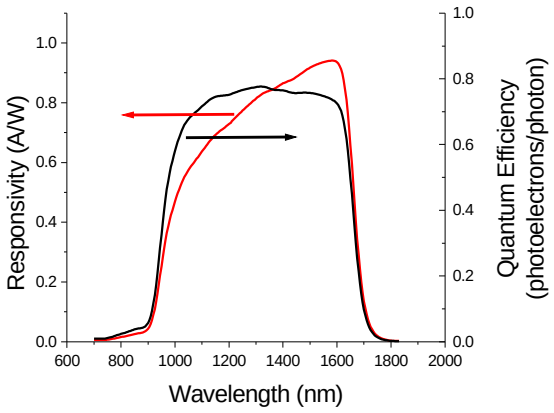
SU320M-1.7RT
InGaAs NIR MiniCamera

The compact SU320M-1.7RT InGaAs high resolution, room temperature video camera allows users to capture images in the near infrared wavelength (NIR) region with high sensitivity and convenience.



APPLICATIONS

- Laser Beam Profiling
- Semiconductor Inspection
- Assembly & Monitoring of Optical Switches
- Inspection of Fiberoptic Components
- Free Space Communications



FEATURES

- High sensitivity in the near infrared spectrum (900 nm to 1700 nm)
- Compact size
- Low power, < 1.6 W
- All solid-state InGaAs imager
- Digital & composite video outputs
- Programmable exposure times
- Room temperature operation
- Accepts standard C-mount lenses

The SU320M-1.7RT Indium Gallium Arsenide near infrared camera is a compact and versatile imaging tool. The lack of cryogenic liquids or moving parts makes the SU320M-1.7RT equally at home in industrial settings as well as in the laboratory, operating at room temperature. Simply power the device by using 3 to 5 VDC or 100 to 240 VAC when used with the AC adapter. Video images can be seen on any RS170 or CCIR compatible monitor. The 12 bit digital data is also available simultaneously in an RS422 format. The SU320M-1.7RT is compatible with most commercially available video and digital frame grabber boards.

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MECHANICAL

Length x Width x Height	5 cm x 6 cm x 9.5 cm 1.96 in x 2.36 in x 3.74 in
Weight	< 300 g (no lens)
Focal Plane Array Format	320 x 240 pixels
Pixel Pitch	40 μm
Lens Mount	C-mount

ENVIRONMENTAL & POWER

Operating Temperature	0°C to 40°C
Storage Temperature	-10°C to 60°C
Humidity	Non-condensing
Power Requirements: AC Adapter Supplied DC (Voltage/Current)	100-240 VAC, 47-63 Hz 3-5 V/<0.6 A at 25°C ambient

ELECTRICAL SPECIFICATIONS

Optical Fill Factor	> 99.9%
Spectral Response	900 nm to 1700 nm
Quantum Efficiency	> 70% from 1000 nm to 1600 nm
Mean Detectivity, D*[1]	> 2 x 10^{12} cm√Hz/W
Noise Equivalent Irradiance [1]	< 5 x 10^{9} photons/cm^2·s
Noise (RMS)	< 1000 electrons
Full Well	> 2 x 10^{6} electrons
True Dynamic Range	> 2000:1
Operability[2]	> 99%
Exposure Times	127 μs to 16.27 ms/16.38 ms (RS170/CCIR) variable in 8 steps
Image Correction	2-point (offset and gain) pixel by pixel user selectable at all 8 integration times
Digital Output Format	12 bit RS-422 format (corrected and uncorrected data is available)
Analog Output Format	Interlaced or progressive scan
Frame Rate	60 Hz RS170 progressive scan 50 Hz CCIR progressive scan
Scan Mode	Continuous or triggered

[1]λ =1550 nm, exposure time = 16.3 ms (no lens).
[2]The fraction of pixels with responsivity deviation less than 30% from the mean.

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Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

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