

## UNCOOLED DETECTORS

PRELIMINARY

# ATOM 80

## 80x80 Uncooled Microbolometer Core For Low Cost, High Volume Applications



Infrared camera core  
easily integrated into  
OEM products

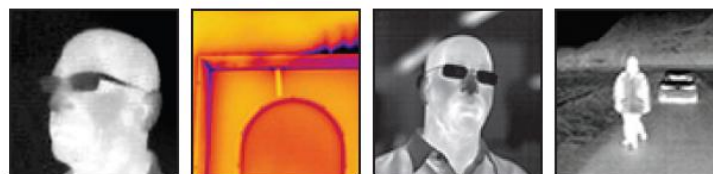
- High sensitivity thermal imaging sensor
- Easy USB interface
- Low power consumption
- Custom configurations available

### INFRARED SENSING AND LOW RESOLUTION IR IMAGING APPLICATIONS:

- Automotive night vision and obstacle detection
- Non-contact temperature measurement
- Building/home automation control
- Advanced intrusion detection
- People counting
- Traffic monitoring

### PERFORMANCE

Sensor	80x80 microbolometer array
Spectral Response	8-14 $\mu\text{m}$
Detector NETD	<100 mK (f/1, 27°C)
Power Consumption	< 0.25 W
Operating Temperature Range	-20°C to +60°C
Frame Rate	30 Hz
Electrical Interface	USB 2.0
14-bit Streaming Digital Output	USB 2.0
Graphical User Interface (PC)	Included



Simulated thermal images show 80x80 pixel resolution

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ATOM 80 ORDERING INFORMATION

Model	Lens	Frame Rate	Part Number
 1.25"x 1.5"x 0.9" (HxWxD) Weight: 31g	5.0mm f/1.2 HFOV = 30° Focus Range: 0.2m to infinity Passively athermalized	30 Hz	915424
		9 Hz	915425
 1.25"x 1.5"x 1.4" (HxWxD) Weight: 50g	6.8mm f/1.4 HFOV = 23° Focus Range: 0.2m to infinity Passively athermalized	30 Hz	915422
		9 Hz	915423

Technical characteristics described in this data sheet are for information only and are not contractual. Because of ongoing product enhancements, specifications are subject to change without notice. Contact us regarding US export control information for these products.



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