





Provided in analog or digital output, the LYNRED Atto 640 thermal imaging sensor is ideal for SWaP applications.

The Atto640 is the smallest 60Hz sensor on the market with a pixel pitch of 12 µm.

THE SMALLEST **VGA 12 µm**THERMAL IMAGING SENSOR ON THE MARKET



BEST IN CLASS SWAP CHARACTERISTICS



CRISP MOVING IMAGE



SEAMLESS INTEGRATION INTO VOLUME MANUFACTURING ENVIRONMENTS

LEISURE

SURVEILLANCE

INDUSTRY









•• THE SMALLEST **VGA 12 µm** THERMAL IMAGING SENSOR ON THE MARKET ••

atto⁶⁴⁰





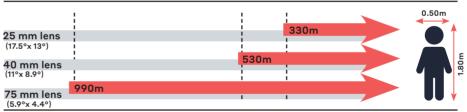






BEST IN CLASS SWAP CHARACTERISTICS	
Compact, affordable optics	■ 12 µm pixel pitch
Smallest VGA sensor on the market	■ 16.5 x 16.5 mm² package ■ with Lynred wafer-level packaging technology
Low-power for optimal battery usage	■ Low power <150mW @ 60Hz (analog output)
	■ Low power <300mW @ 60Hz (digital output)
CRISP MOVING IMAGES	
Sharp contrast	■ Thermal sensitivity < 60mK (f/1, 300K, 30Hz)
Flicker-free image	Frame rate up to 60HzThermal time constant 10ms
High uniformity	Operability > 99.5%
SEAMLESS INTEGRATION	
High volume compliant	Surface Mount Device (J-Lead44) compatible with standard off-the-shelf socket Wafer Level Packaging & high-volume assembly processes
	JEDEC's reflow and handling standards compatible
QVGA-compatible product platform	■ Footprint compatible with QVGA products: PICO384-053 (17 µm) and ATTO320 (12 µm)
Flexible configuration	■ Full access to sensor features (I²C)
	Free run or external trigger mode
Output format	Analog: 1 single output
	Digital: 14 bits parallel

Recognition distances for human measuring 1.80 m x 0.50 m $\,$



 $Range\ for\ \textit{Johnson's criteria},\ target\ \textit{deltaT} = 2\textit{K},\ perfect\ atmospheric\ and\ optics\ transmissions},\ theoretical\ square\ pixel.$











LYNRED HEADQUARTERS
Avenue de la Vauve - CS 20018
91127 Palaiseau - France
Phone +33 (0)1 60 92 18 30
info@lynred.com

