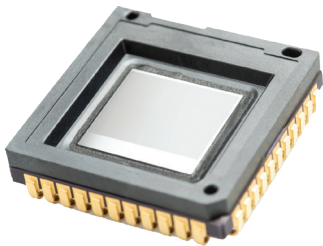


# atto<sup>640</sup><sup>TM</sup>

640 x 480 - 12  $\mu\text{m}$



## THE SMALLEST **VGA 12 $\mu\text{m}$** THERMAL IMAGING SENSOR ON THE MARKET

The ULIS atto640 thermal imaging sensor is ideal for SWaP applications. Manufactured using wafer-level packaging technology and integrated into a 16.5 x 16.5 mm<sup>2</sup> SMT package, the atto640 is the smallest 60 Hz sensor on the market with a pixel pitch of 12  $\mu\text{m}$ .

The atto640 was developed with more compact systems in mind as an alternative to the popular Pico640 17  $\mu\text{m}$  VGA sensor.

It offers all of the features and performance required by leisure, defense, surveillance, and thermography applications.



LEISURE



DEFENSE



SURVEILLANCE



THERMOGRAPHY

**+ BEST IN CLASS SWAP CHARACTERISTICS**

**+ CRISP MOVING IMAGES**

**+ SEAMLESS INTEGRATION INTO VOLUME  
MANUFACTURING ENVIRONMENTS**



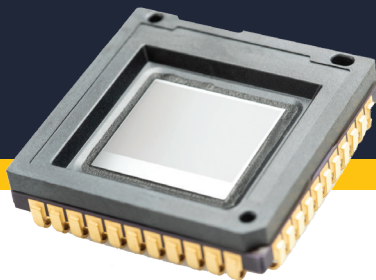
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**atto**640™  
640 x 480 - 12 μm

THE SMALLEST  
VGA 12 μm



PRODUCT PARTNUMBER: **ATTO640**

### BEST IN CLASS SWAP CHARACTERISTICS

“Perfect for compact battery-operated systems”

- Compact, affordable optics
  - 12μm pixel pitch
- Smallest VGA sensor on the market
  - 16.5 x 16.5 mm<sup>2</sup> package
  - with ULIS wafer-level packaging technology
- Low-power for optimal battery usage
  - 130 mW @ 60Hz (analog output)

### CRISP MOVING IMAGES

“Capture even the tiniest details”

- Sharp contrast
  - Thermal sensitivity < 60mK or (optional) < 50mK (at F/1, 300K, 30Hz)
- Flicker-free image
  - Frame rate up to 60Hz
  - Thermal time constant < 10ms
- High uniformity
  - Operability > 99.5%

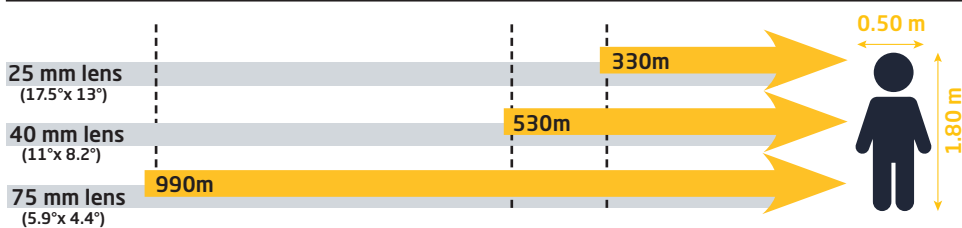
### SEAMLESS INTEGRATION

“Ready for volume manufacturing”

- Compatible with volume manufacturing
  - Surface Mount Device (J-Lead44) compatible with standard off-the-shelf socket
  - Wafer Level Packaging & high-volume assembly processes
  - Delivery in JEDEC trays
- QVGA-compatible product platform
  - Footprint compatible with QVGA products: PICO384-053 (17 μm) and ATTO320 (12 μm)
- Flexible configuration
  - Full access to sensor features (I<sup>2</sup>C)
  - Free run or external trigger mode



### Recognition distances for human measuring 1.80 m x 0.50 m



The technical specifications and other product information in this document are provided for information only and are subject to change without notice.



Exclusive Distributor North America

Sofradir-EC  
Exclusive Distributor North America

373 US Route 46 W,  
Fairfield, NJ 07004  
USA

Phone: (973) 882-0211  
info@sofradir-ec.com



www.sofradir-ec.com