LYNRED USA

atto640

640 x 480 – 12 µm

Provided in analog or digital output, the LYNRED Atto640 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
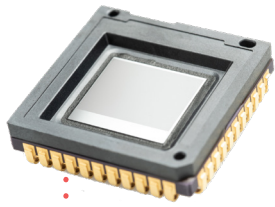
THE SMALLEST **VGA 12 μm** THERMAL IMAGING SENSOR ON THE MARKET

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 60Hz* ■ *Thermal 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*

- SWaP
- IMAGE QUALITY
- LOW POWER CONSUMPTION
- SEAMLESS INTEGRATION

Recognition distances for human measuring 1.80 m x 0.50 m

- 25 mm lens (17.5°x 13°) — 330m
- 40 mm lens (11°x 8.9°) — 530m
- 75 mm lens (5.9°x 4.4°) — 990m

0.50m / 1.80m
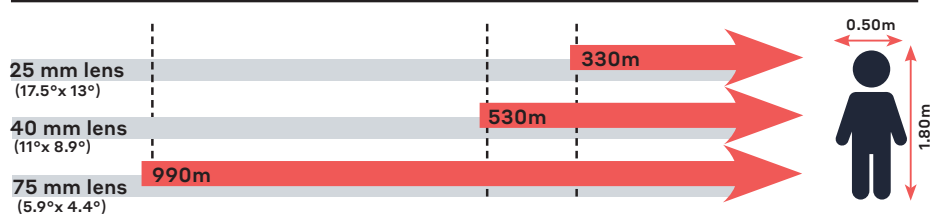
Range for Johnson's criteria, target deltaT = 2K, perfect atmospheric and optics transmissions, theoretical square pixel.

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