

# ATTO320-02™

320 × 240 – 12µm

INFRARED DETECTOR

Based on continuous customers feedback, LYNRED has improved its 12µm technology for the ATTO products family.

Offering fluid and crisp images with low power consumption, ATTO320-02™ combines key values to meet the requirements of commercial applications.

## HIGHER SENSITIVITY FOR LIMITLESS APPLICATIONS



FLUID AND CRISP IMAGES



SEAMLESS INTEGRATION



OPTIMIZED TOTAL COST OF OWNERSHIP

LEISURE



SURVEILLANCE



FIREFIGHTING



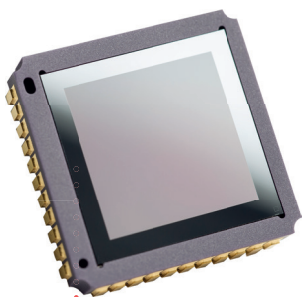
THERMOGRAPHY



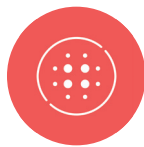
ORDERING REFERENCE: ATTO320-02™

# HIGHER SENSITIVITY FOR LIMITLESS APPLICATIONS

## ATTO320-02™



COMPACT



FULL DIGITAL



LOW POWER CONSUMPTION



SEAMLESS INTEGRATION

### FLUID AND CRISP IMAGES

Resolution	■ 320 x 240
Sharp contrast	■ Thermal sensitivity < 50 mK (f/1, 300K, 60Hz) ■ System NETD: 15-20mK using adapted noise reduction algorithms ■ [-40°C; +85°C] operating temperature range
Fluid and smooth image	■ Frame rate up to 60Hz
High uniformity	■ Array operability > 99.8%

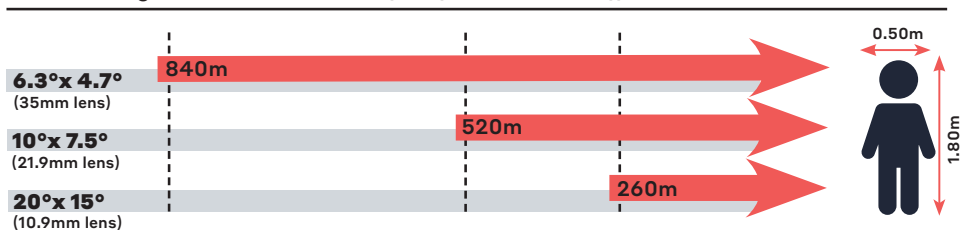
### SEAMLESS INTEGRATION

Simplified electronic design	■ Full digital component
High volume compliant	■ Surface-mount Device (J-Lead44) ■ Compatible with JEDEC's reflow and handling standards
Flexible configuration	■ Full access to sensor features (I <sup>2</sup> C) ■ Free-run or external trigger mode

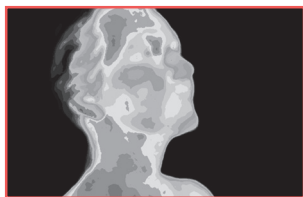
### OPTIMIZED TOTAL COST OF OWNERSHIP

Reduced optic size and cost	■ 12µm pixel pitch
Simplified image processing	■ Predictable behavior ■ TECless, Shutterless compatible
Battery optimization	■ Low power consumption < 220 mW ■ Digital mode

### Human recognition distance with f/1 optics (perfect OTF & 88% typical transmission)



Range for Johnson's criteria @ 50% probability, 2K DeltaT vs background, perfect atmosphere, real LYNRED pixel MTF, sensor NETD = 50mK



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