





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

Ideal for SWaP applications, it is the smallest VGA thermal sensor on the market.

SEAMLESS INTEGRATION FOR LIMITLESS APPLICATIONS







LEISURE

SURVEILLANCE

THERMOGRAPHY

DEFENSE









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ATTO640D-04™



ATTO640D-04W™



•• SEAMLESS INTEGRATION FOR LIMITLESS APPLICATIONS ••

	■ < 130 111VV @ 00 HZ (dildi	130 HVV (@ 00 HZ (dildiog outpot Hode)	
FLUID AND CRISP IMAGES			
Resolution	■ 640 × 480	■ 640 × 480	
Sharp contrast	■ NETD < 35 mK (30Hz, F/1, 300K)	■ NETD < 45 mK (30Hz, F/1, 300K)	
	■ [-40°C; +85°C] operating	■ [-40°C; +85°C] operating temperature range	
Fluid and smooth image	■ Frame rate up to 60Hz	■ Frame rate up to 60Hz	
High uniformity	■ Operability > 99.8%	Operability > 99.8%	
SEAMLESS INTEGRATION			
High volume compliant		 Surface-mount Device (J-Lead44) compatible with standard off-the-shelf socket 	
	■ Wafer-level packaging	■ Wafer-level packaging & high-volume assembly processes	
	■ Compatible with JEDE	■ Compatible with JEDEC's reflow and handling standards	

■ Protective Germanium window for ATT0640D-04W™

■ Full access to sensor features (I²C)

QVGA-compatible product platform Footprint compatible with QVGA products:
PICO384™ series (17µm) and ATTO320™ (12µm)

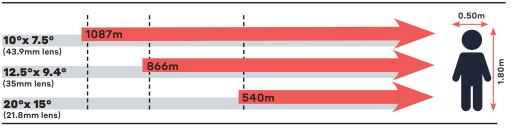
Free-run or external trigger mode

Output format

14-bit parallel Digital

ATTO640D-04™: Human recognition distance with f/1 optics (perfect OTF & 88% typical transmission)

Analog



Range for Johnson's criteria @ 50% probability, 2K DeltaT vs background, perfect atmosphere, real LYNRED pixel MTF, sensor NETD = 35mK



INTEGRATION

LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

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Flexible configuration

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