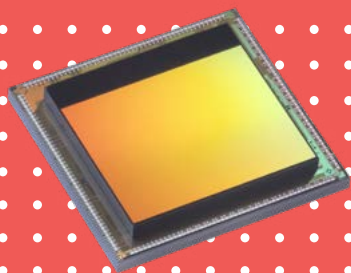




LYNRED®

See Beyond Horizons



CAPT640-02™

640 x 480 – 12μm

The CAPT640-02™ thermal image sensor, the result of over 20 years of expertise in microbolometer technology, enhances the perception capabilities of driver-assistance systems.

It ensures reliable detection of obstacles in the vehicle's path under all lighting and visibility conditions, in a passive and cost-effective way.

UNLOCKING NEW POSSIBILITIES FOR AUTOMOTIVE PERCEPTION



**VGA-FORMAT THERMAL IMAGE
SENSOR FOR BRIGHT DECISION**



**ROBUST EUROPEAN SUPPLY
CHAIN AND LARGE VOLUME
CAPACITY**



SEAMLESS INTEGRATION

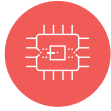
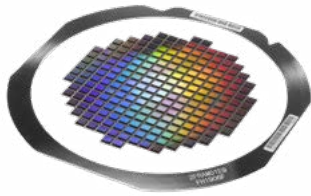
AUTOMOTIVE



ORDERING REFERENCE: CAPT640-02™

TECHNICAL DATA NOT CLASSIFIED UNDER EXPORT CONTROL REGULATION

THERMAL IMAGE SENSOR



AUTOMOTIVE GRADE



IMAGE QUALITY

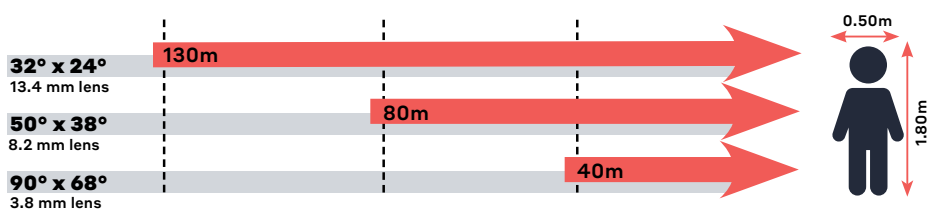


**READY
FOR VOLUME**

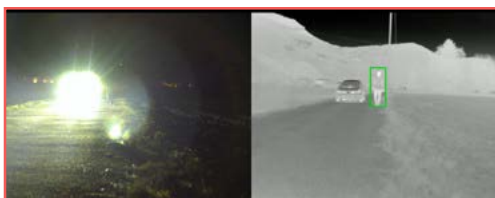
●● UNLOCKING NEW POSSIBILITIES FOR AUTOMOTIVE PERCEPTION ●●

AUTOMOTIVE GRADE	
AEC-Q100	■ Grade 3 [-40°C; +85°C]
IATF 16949	■ PPAP available
FRUGAL FLUID AND CRISP IMAGES	
Low-power	■ < 320 mW @ 60 Hz
Resolution	■ 640 × 480 - 12μm pitch
Sharp contrast	■ NETD < 60 mK (30Hz, f/1, 300K)
	■ scene dynamic > 93°C
Fluid and smooth image	■ Frame rate up to 60Hz
High uniformity	■ > 99.5%
Flexible configuration	■ Full access to sensor features (P/C)
	■ Free-run or external trigger mode
Output format	■ Full digital product
READY FOR VOLUME	
Packaging optimized for high volume	■ Bare die with wafer-level packaging
Packing	■ Reconstructed wafer
OPTION	
Development tools	■ LYNRED toolbox software
	■ Waterproof case for demonstration camera
	■ LYNRED automotive digital twin
	■ LYNRED mobility dataset
To get started	■ R&D packing and mechanical samples

CAPT640-02™: Human recognition distances with f/1.2 optics



Range for Johnson's criteria @ 50% probability, target delta T = 2K, perfect atmospheric and optics transmissions.



LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

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