

INFRARED DETECTOR

PIC0384S™

384 × 288 – 17µm

The thermal image sensor PIC0384S™ has increased sensitivity to provide high image quality when scene dynamic is low.

This full digital surface mount device is built on proven technology, limits development costs and shortens time to market, helping manufacturers get simple-to-use and truly competitive end products to the market.

SPECIALLY DESIGNED FOR ALL ENVIRONMENTS WITH LOW LIGHT CONTRAST



ENHANCED IMAGE QUALITY



SEAMLESS INTEGRATION



OPTIMIZED TOTAL COST OF OWNERSHIP

LEISURE



SURVEILLANCE



FIREFIGHTING



THERMOGRAPHY



ORDERING REFERENCE: PIC0384S™

SPECIALY DESIGNED FOR ALL ENVIRONMENTS WITH LOW LIGHT CONTRAST

PICO384S™

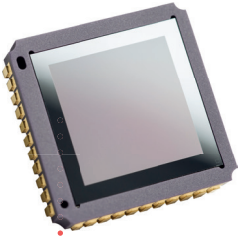


IMAGE QUALITY



COMPACT



LONG RANGE
OBSERVATION



RELIABLE



FULL DIGITAL

ENHANCED IMAGE QUALITY

Resolution	■ 384 × 288
Sharp contrast	■ Thermal sensitivity < 30 mK, (f/1, 300K, 50Hz) ■ 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 %

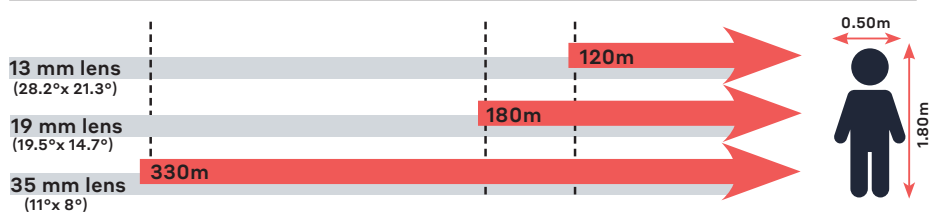
SEAMLESS INTEGRATION

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

OPTIMIZED TOTAL COST OF OWNERSHIP

Simplified image processing	■ Predictable behavior ■ TECless, Shutterless compatible
Battery optimization	■ Low power consumption < 220 mW ■ Digital mode
Proven reliability	■ Standards MIL810 - MIL883

Recognition distances for human measuring 1.80 m x 0.50 m



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



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