





EYESENTIAL SWTM

640 x 512 - 10µm - InGaAs



The Infrared detector designed for industrial applications such as machine vision and spectrometry. LYNRED InGaAs technology provides leading edge performance in terms of sensitivity, noise, dark current and operability.

SEE BEYOND WHAT IS VISIBLE









MACHINE VISION **SPECTROMETRY**

FIXED SURVEILLANCE MOBILE SURVEILLANCE









•• SEE BEYOND WHAT IS VISIBLE ••

MULTI-PURPOSE





VERSATILE



LOW NOISE



COMPACT



INTERPRETATION VISIBLE-LIKE

ARRAY FEATURES	
Format	■ 640 x 512
Pixel pitch	■ 10µm
Sensor type	■ InGaAs PIN-Photodiode
Spectral response	■ 0.9 - 1.7µm
ROIC (READ-OUT INTEGRATED CIRCUIT)	
Integration type	■ Snapshot / Global shutter
Charge handling capacity	■ 70 10³ e- / 90 10³ e- / 450 10³ e-
Readout modes	■ IWR, ITR
Exposure time	■ 1µs minimum
Maximum full frame rate	 300 fps full frame, 1200 fps with 320x256 resolution
Maximum pixel rate	■ 100 MPixels/s
Video output	Digital 14 Bits
Specific operating mode	Individual line selection (for spectrometry)
TYPICAL PERFORMANCES	
Quantum efficiency (QE)	■ 70% from 1μm to 1.6μm
Noise with ROIC	■ 55 e- (for 90³ e- handling capacity)
Dark current	■ 15fA @ 21°C
Array operability	■ >99.5%
Non uniformity without correction	4 %
PACKAGING	
Туре	Standard LCC / 1.016 pin pitch / 64 pins
Window	Borosilicate glass
Operating and storage temperature	■ [-20°C; +60°C]

AVAILABLE SERVICES

Technical training and support

Evaluation kit

Electronic and mechanical reference design









LYNRED **HEADQUARTERS**

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