



LYNRED®

See Beyond Horizons

INFRARED DETECTORS



YOCTO1024™

1024 x 768 - 8µm

To address the needs of increasingly demanding users, LYNRED has developed the YOCTO1024™.

This 8µm Class bolometer has been specifically designed to meet the growing demand for image quality embed in a small package size for the hunting and defense markets. The YOCTO1024™ is therefore particularly suitable for portable applications such as binoculars, monoculars, riflescopes, and clip-on devices.

A COMPACT THERMAL SENSOR OFFERING A HIGH-RESOLUTION IMAGE

-  **HIGHER MAGNIFICATION (x 1.4)**
-  **COMPACT FOOTPRINT**
-  **ENHANCED IMAGE QUALITY**

HUNTING & LEISURE

DEFENSE

SURVEILLANCE

DRONES



ORDERING REFERENCE: YOCTO1024™

TECHNICAL DATA NOT CLASSIFIED UNDER EXPORT CONTROL REGULATION

●● A COMPACT THERMAL SENSOR OFFERING A HIGH-RESOLUTION IMAGE ●●



MULTI-PURPOSE



HIGH RESOLUTION



COMPACTITY



LONGER RANGE



RELIABILITY

HIGH-QUALITY LARGE FOV

Resolution	■ 1024 x 768
Sharp contrast	■ Thermal sensitivity <65mK (f/1, 300K, 50Hz, T _{fpa} @25+/-5°C) ■ [-40°C; +85°C] operating temperature range
Fluid and smooth image	■ Full frame rate 50Hz (2 outputs)

EASY IMPLEMENTATION

Sensor size	■ <18 x 18 x 4.85 mm ³
Flexible configuration	■ Full access to sensor features (I ² C) ■ Free-run or external trigger mode

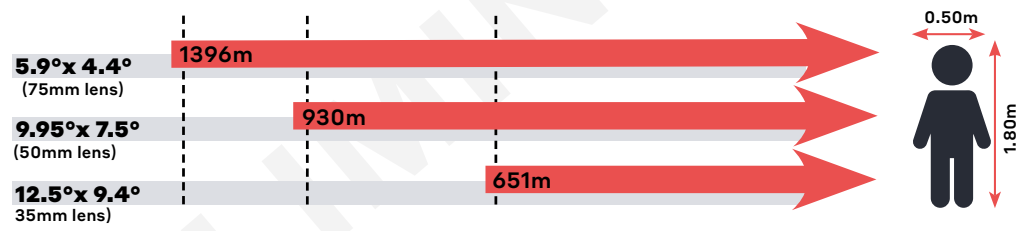
OPTIMIZED TOTAL COST OF OWNERSHIP

Reduced optic size and cost	■ 8.5µm pixel pitch
Simplified image processing	■ Shutterless eligible

PROVEN RELIABILITY

- Qualified for thermal weapon sight use
- Designed and manufactured in Europe
- Standard MIL810-MIL883

Conditions: MODTRAN Mid Latitude Summer (+22°C at ground level); Rural 23 km visibility, Optic aperture F/1.00



LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

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