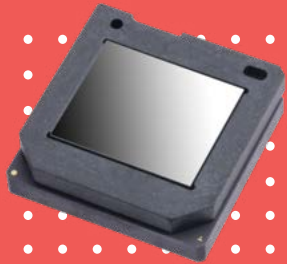




LYNRED®

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 <math><50\text{mK}</math> (f/1, 300K, 50Hz, $T_{fpa}@25\pm 5^\circ\text{C}$) ■ System NETD down to 20mK ■ [-40°C; +85°C] operating temperature range
Fluid and smooth image	■ Full frame rate <math><50\text{Hz}</math> (2 outputs)

EASY IMPLEMENTATION

Sensor size	■ <math><18 \times 18 \times 4.85 \text{ mm}^3</math>
Flexible configuration	■ Full access to sensor features (1°C) ■ Free-run or external trigger mode

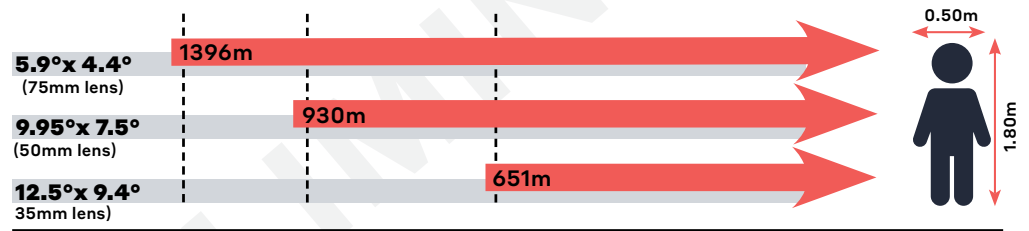
OPTIMIZED TOTAL COST OF OWNERSHIP

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

Actipole - CS 10021 - 364, route de Valence
38113 Veurey-Voroize - France
Phone +33 (0)4 76 28 77 00
info@lynred.com

LYNRED USA

373 US Highway 46W
Fairfield, NJ 07004, USA
Phone +1 973.882.0211
info@lynred-usa.com

NIT (New Imaging Technologies) Premium SWIR by LYNRED

1 impasse de la Noisette
91370 Verrières-le-Buisson - France
Phone +33 1 64 47 88 58
info@new-imaging-technologies.com

2026@LYNRED. Photos: Getty Images & LYNRED. Design: PI COMM. Printed in France, June 2026
Technical characteristics described in this data sheet are for information only. They are not contractual and may change without prior notice.