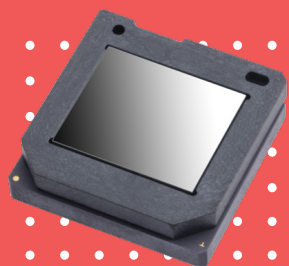




LYNRED®

See Beyond Horizons



# YOCTO1024™

1024 x 768 - 8μm

INFRARED DETECTORS

To address the needs of increasingly demanding users, LYNRED has developed the YOCTO1024™. This 8μm Class bolometer is designed to succeed the 12μm VGA model. It has been specifically designed for the hunting market but is adapted to defense applications, 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

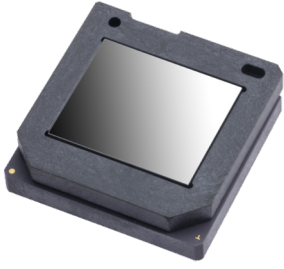
DRONES



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 <55mK (f/1, 300K, 50Hz, T <sub>fp</sub> @25+/-5°C) ■ [-30°C to +70°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 <sup>3</sup>
Flexible configuration	■ Full access to sensor features (I <sup>2</sup> C) ■ Free-run or external trigger mode

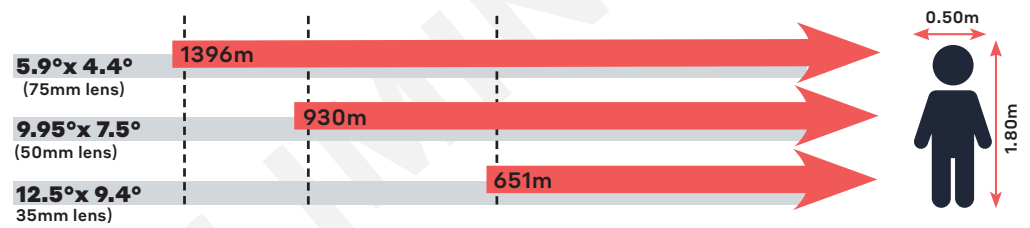
### OPTIMIZED TOTAL COST OF OWNERSHIP

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 ASIA PACIFIC PTE LTD

5 Shenton Way,  
#22-04 UIC Building  
068808 Singapore  
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