

**THERMAL
SOLUTIONS
FOR HUNTING
AND LEISURE**

LYNRED PRODUCT RANGE OF THERMAL IMAGING

Thermal vision has become increasingly popular among hunters, since it allows them to track their game more efficiently and effectively. Whether riflescopes, monoculars, binoculars or clip-on systems, these thermal devices use heat signatures to detect the presence of animals, meaning that they are ideal for hunting day and night, whatever the conditions. Hunters are on the lookout for thermal imaging devices offering superior image quality and the ability to spot the game over long distances.

LYNRED can help you create thermal imaging devices to meet market demand by working alongside your teams during the design and development process.

LYNRED: the partner you can rely on

- World leader provider of sensors for sport optics
- Manufactured in Europe
- Supplies thermal imaging only, no competition on the final product
- High-volume deliveries



2 million detectors
delivered since 2016



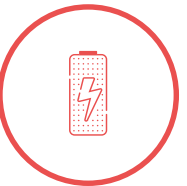
HIGH IMAGE
QUALITY



EASY TO
INTEGRATE



RELIABLE AND
RUGGEDIZED



LOW POWER
CONSUMPTION

Enhance the customer experience

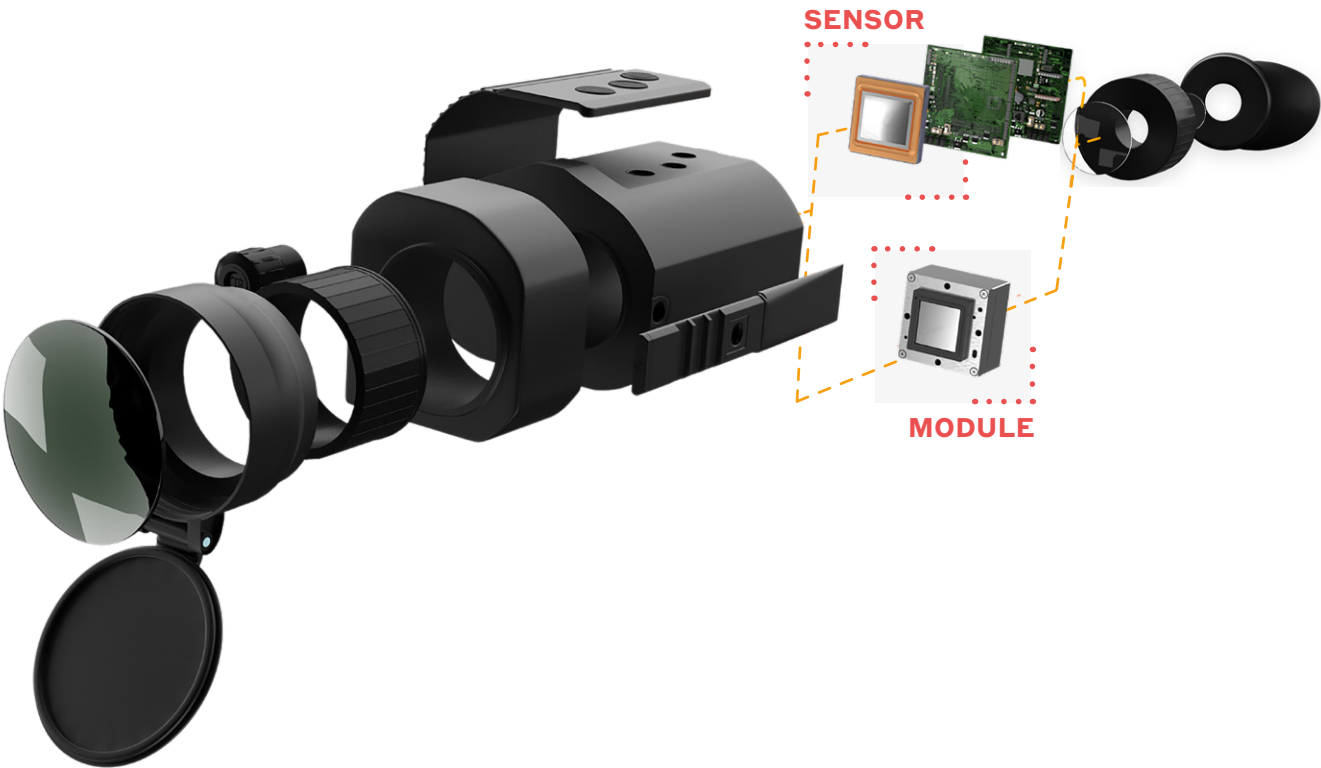
LYNRED is laser-focused on providing the best image quality so that you can concentrate on delivering the ultimate user experience.

FULL SUPPORT TO ACHIEVE THE TARGET IMAGE QUALITY

- A dedicated field application engineer
- A training center specifically for customers
- System performance (high frame rate, no lagging, native sensor performance, etc.) geared towards your use cases

STATE-OF-THE-ART TECHNOLOGY

- Latest pixel pitches and highest performance
- Image correction pipeline to produce the best image quality
- High-volume deliveries
- Reliable products (design and production based on MIL-STD)

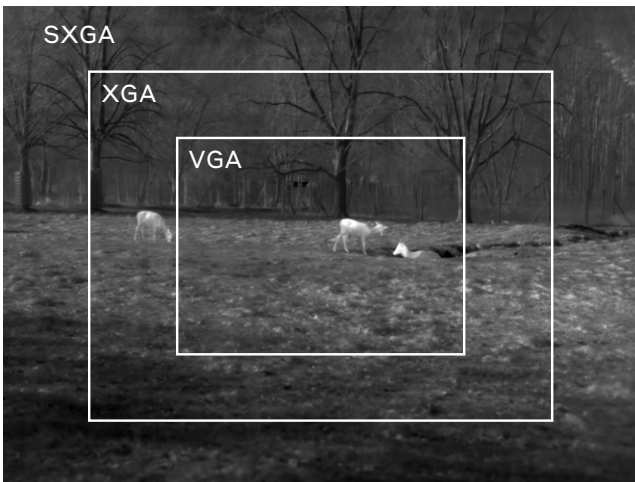


BROADEN YOUR SCOPE

WITH LYNRED THERMAL SOLUTIONS

The choice of an a XGA or SXGA infrared detector is driven by the pursuit of superior image quality and improved detection capabilities for a more effective and enjoyable hunting experience.

Larger FOV (Field Of View) without compromising range

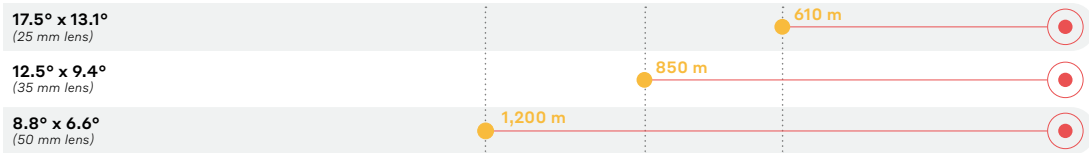


Improved range thanks to more pixels



More pixels inducing higher image quality with up to 60% DRI range, for a better animal recognition. Animals within an 80-meter distance range.

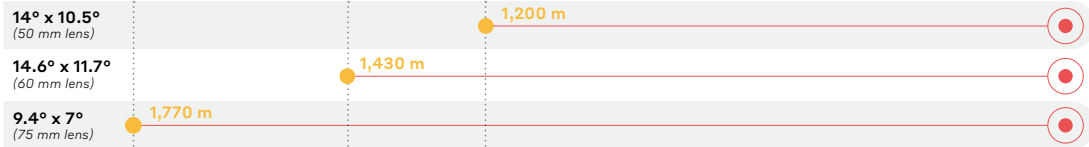
ATTO640D-04™ Wild boar recognition distance with f/1 optics (perfect OTF & 88% typical transmission)



Range for Johnson's criteria @ 50% probability, delta T = 2 K vs background, perfect atmosphere, real LYNRED pixel MTF, sensor NETD = 40 mK



ATTO1280-02™ Wild boar recognition distance with f/1 optics (perfect OTF & 88% typical transmission)



Range for Johnson's criteria @ 50% probability, target delta T = 2 K, perfect atmosphere, real LYNRED pixel MTF, sensor NETD = 40 mK



LYNRED MODULE RANGE

Powered by LYNRED's proven thermal sensor and state-of-the-art image algorithms, the ATI640™ module camera delivers unparalleled image quality and accuracy.

ATI MODULE SUITE



Advanced Thermal Imager
640 x 480 - 12µm

NETD 18mK

Accelerate your thermal imaging device with our **plug & play** module offering ready-to-use thermal imaging







- Embedded image treatment delivering high-quality images
- SWaP-C 24mm² ; 15g and <1W
- Easy to integrate with MIPI output
- Advanced Shutterless for uninterrupted imaging



LYNRED SENSOR RANGE

Check out all
our leisure
products



PRODUCT	FORMAT	PIXEL PITCH	NETD	SYSTEM NETD Using adapted noise reduction algorithms	FRAME RATE
 ATTO320-02™	QVGA, 320 x 240	12µm	< 50mK (f/1, 300 K, 60 Hz)	15-20mK	up to 60 Hz
 PICO384S™	QVGA, 384 x 288	17µm	< 30mK (f/1, 300K, 50Hz)	15-20mK	up to 60 Hz
 ATTO640D-04™	VGA, 640 x 480	12µm	< 35mK (f/1, 300 K, 30 Hz)	15-20mK	up to 60 Hz
 ATTO640D-04W™	VGA, 640 x 480	12µm	< 45mK (f/1, 300K, 30Hz) including protective window	15-20mK	up to 60 Hz
 ATTO1024-02™	XGA, 1024 x 768	12µm	< 50mK (f/1, 300 K, 30Hz)	15-20mK	up to 100 Hz
 ATTO1280-02™	SXGA, 1280 x 1024	12µm	< 50mK (f/1, 300 K, 30Hz)	15-20mK	up to 60 Hz



35 years

of experience

80%

exports

1,000
employees

15%

**revenue
invested in R&D**

LYNRED
(merger between Sofradir and
ULIS) designs infrared sensors
to meet the needs in a wide range
of markets.

Our infrared sensors lineup covers the entire infrared spectrum from SWIR through VLWIR. Our products are capable of satisfying the demanding requirements of a variety of industries.

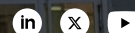
They are reliable and rugged enough for defense applications, compact and powerful enough for surveillance applications, and stable and sensitive enough for thermography, industrial systems, firefighting and search & rescue applications.

LYNRED HEADQUARTERS

Avenue de la Vauve - CS 20018
91127 Palaiseau, France
Phone +33 (0)1 60 92 18 30
info@lynred.com

**LYNRED DEVELOPMENT
AND PRODUCTION CENTER**

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



www.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



www.lynred-usa.com