PULSAR
IMAGE.QUALITY

HD Thermal Imaging Binoculars

MERGER LRF XT50

Premium HD sensor

1280 1024 @12µm
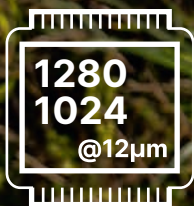
Premium quality European thermal imaging sensor with HD resolution 1280×1024 sets the new standard for thermal imaging. New sensor raises image quality to a high-definition level providing outstanding performance in all observation conditions.

17.5

Wide field of view

Thanks to the new HD thermal imaging sensor and 50mm germanium objective lens Merger LRF XT50 offers extra wide field of view of 17.5°. It makes long time observation comfortable and effortless. Wide field of view makes finding hot objects very easy and fast.

x16

x2

Clear view on high zoom

2x optical magnification of the unit can be increased by means of digital zoom to 16x magnification. Even at the highest level of zoom image detail is sufficient for identifying the smallest object details. Advanced algorithms enhance image quality and help to achieve sharp and detailed image.

Loseless pixel to pixel image transfer

Image from HD sensor is translated pixel to pixel to an AMOLED screen without scaling. It ensures constant signal strength while avoiding scaling artefacts. This leads to better image detail and low noise levels resulting in excellent image quality.

Image stabilization

Merger LRF XT50 possesses an electronic image stabilization feature which improves image sharpness and reduces artefacts resulting from shaking hands. It helps to avoid motion blur and ensures a more comfortable observation of distant objects.

Solid detection range

A top-quality germanium 50 mm optics combined with HD 12μm thermal imaging sensor provides exceptional detection capabilities. A standard 1.8m tall object can be detected up to 2300 m away in complete darkness.
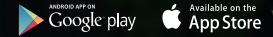
Other features:

- **Classic ergonomic binocular design:** Merger LRF XT50 fits comfortably in the hand, but still offer appealing external aesthetics and exemplary ergonomics.

- **Built-in photo and video recorder with 64GB of memory:** Internal memory of Merger LRF XT50 can store hours of video and tens of thousands of photos.

- **Stream Vision 2 app support.** Wide range of scenarios including wireless device software updates, real-time image transmission from Merger LRF XT50 to the smartphone screen, publication on social media of content captured by the device or transfer to messengers, etc.

- **Precise laser range finding up to 1500 m:** A built-in laser rangefinder with a range of up to 1 kilometre allows you to measure distances in single measurements and continuous scanning modes.

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Model	XT50
SKU	77486
Sensor resolution, pixels @ pixel pitch, µm	1280x1024 @ 12
Sensor NETD, mK	<40
Display, type / resolution, pixels	AMOLED 1280×960
Objective lens	F50/1.0
Magnification, x	2 – 16
Field of view, °	17.5
Range of detection, m	2300
Measurement range, m	1500
Level of Protection	IPX7 (fully waterproof)
Dimensions, mm	197×140×72
Weight (without battery), kg	0.9

SPECIFICATIONS

PulsarVision   pulsar.vision   pulsarvision