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THERMAL IMAGING
Explore in HD
Thermal Imaging Rangefinding Binoculars
MERGER LRF XL50
NEW
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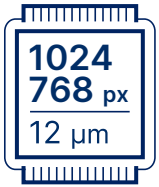
Details like never before!



New HD thermal sensor

Merger LRF XL50 offers the next level of thermal imaging experience. The image generated by new 1024×768 pixels thermal sensor features high definition and rich detail. It is ideal for uncompromised trophy identification. Silhouettes, anatomy & behavioural peculiarities of animal are well visible clearly distinguishable.

High image detail across the whole magnification range 2.5-20x

Variable 2.5-20x magnification provides improved focus and better overall object recognition at significant distances. The HD-sensor allows to maintain high level of image detail over the entire magnification range. The zoom changes either gradually in 2x step or continuously for a customized FOV / magnification ratio for each specific situation.

Extra-long detection range

Powerful fast aperture F50/1.0 germanium lens in combination with professional grade 12 µm / 1024×768 pix HD thermal imaging sensor provides exceptional detection capabilities. A standard 6ft tall object can be detected at a 2500 yds distance in complete darkness.

Precise laser rangefinder

Understanding the target distance is an essential factor in making the right decisions. A built-in laser rangefinder with a range of up to 1000 yards allows you to measure distances in single measurements and continuous scanning modes with an accuracy of ± 1 yard for quick and error-free assessment of the situation.

Wide field of view

The Merger LRF XL50 offers wide field of view for easy scanning and spotting. Explore landscapes in HD-quality with a wide 14 degrees FOV and optimal 2.5x magnification. Large-format sensor allows to have best-in-class FOV / magnification ratio even on high zoom levels, up to 20x.

Classic binocular design

Merger LRF thermal imaging binoculars are built with the classic design of daytime binoculars. With a small form factor, these thermal imaging binoculars fit comfortably in the hand, but still offer appealing external aesthetics and exemplary ergonomics. The six function buttons are placed in the comfort access zone and the most used digital device functions are activated with a single touch.

Comfortable viewing experience with both eyes

The Merger LRF XL50 binoculars' optical design fully takes into account the nature of human vision. It is natural for a person to receive visual information through two visual channels simultaneously. Viewing with two eyes is less tiring than viewing with one. This means better detection of small or faint objects, and better performance in low-contrast scenarios than similar monocular thermal imaging devices with the same technical level. The interpupillary distance in the Merger LRF binoculars is adjustable from 62 to 74 mm in accordance with the individual characteristics of a particular user.

Rugged magnesium alloy housing

The Merger LRF XL50 is designed for constant, often hard use. A magnesium alloy housing is light and strong at the same time. The housing reliably protects the internal thermal imaging components from shocks, drops, moisture and hot or cold temperatures, while effectively removing heat from the electronics and increasing consistency of operation during long-term observation.

3 levels of sensitivity amplification

Selection of the signal amplification level combined with new filtration algorithms with fine brightness and contrast adjustments offers hunters great opportunities for long-range observation in diverse weather and temperature conditions. The amplification setting helps to define animal's trophy features and ensures clear rendering of objects and background in the field of view.

Combined dual battery system

The Merger LRF XL50 is powered with two rechargeable batteries: one built-in with a capacity of 4 Ah, the other replaceable with a capacity of 3.2 Ah. A single charge guarantees long battery life. The embossment on the body of the replaceable battery for accurate determination of the correct position makes it possible to quickly and confidently replace a flat battery with a new one in complete darkness by touch.

Built-in photo and video recorder

The Merger LRF XL50 has a built-in video recorder. The internal memory of Merger LRF can store hours of video and tens of thousands of photos. One touch of a button is enough to take a photo of an interesting scene or start recording video. The footage is copied to a computer hard drive via a USB-C port. The Merger LRF owner has a free 16 GB disk space for storing photos and videos captured with the device in the Pulsar cloud storage. Simply install the Stream Vision 2 mobile application, log in and connect the device with a smartphone via Wi-Fi.

Stream Vision 2 application. Wi-Fi integration with iOS and Android devices

The built-in Wi-Fi module will connect the device with smartphones based on Android and iOS via the Stream Vision 2 mobile application. This combination provides a great opportunity, such as wireless update of the device software, transmission of images to the screen of a mobile device in real time, remote control of digital functions of the device and many others. Users registered in the application are provided with cloud storage space for photos and videos taken with a digital or thermal imaging device.

Dual Wi-Fi waveband support 2.4 / 5 GHZ

In Merger LRF thermal imagers, the standard smartphone connection frequency range via a 2.4 GHz Wi-Fi channel is complemented with an effective 5 GHz range. The 5 GHz connection offers better bandwidth, a faster data transfer rate, noise immunity and improved connection stability, resulting in more productive and easier operation of the thermal imager with a smartphone.

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More features

- Fast aperture F50/1.0 germanium lens
- High-contrast AMOLED displays: a selection of 8 colour palettes
- Variable 62-74 mm interpupillary distance
- Operation in extreme temperatures -13 to +122°F
- IPX7 submersion waterproof rated
- Proximity sensor for covert use

SPECIFICATIONS

Model	XL50
SKU	**77481**
Microbolometer, resolution, pixels @ pixel pitch, µm	HD 1024 × 768 @ 12
Display type / resolution, pixels	AMOLED 1024 × 768
Objective lens	F50 / 1.0
Magnification, x	2.5 – 20
Range of detection, yards	2500
Integrated laser rangefinder	Yes, up to 1000 yds
Field of view, °	14 × 10.5
Dimensions, inch	7.75 × 5.51 × 2.83
Weight (without changeable battery), oz	31.7

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