PULSAR
IMAGE.QUALITY

THERMAL
IMAGING

The
NEXT LEVEL
OF THERMAL
IMAGING

Thermal Imaging Binoculars

NEW ACCOLADE 2 LRF

pulsar-vision.com

Highly Sensitive Thermal Imaging Sensor

An advanced NETD <40 mK sensor produces precise detail recognition imaging even in adverse weather conditions like rain and fog. Even when thermal contrast is low, small temperature differences are clearly visible with richly contrasted, high-resolution imaging.

High Definition Image

Sharp, richly contrasted thermal imaging for enhanced identification of animals, their extremities and even the smallest details, i.e. branches, leaves, grass and terrain.

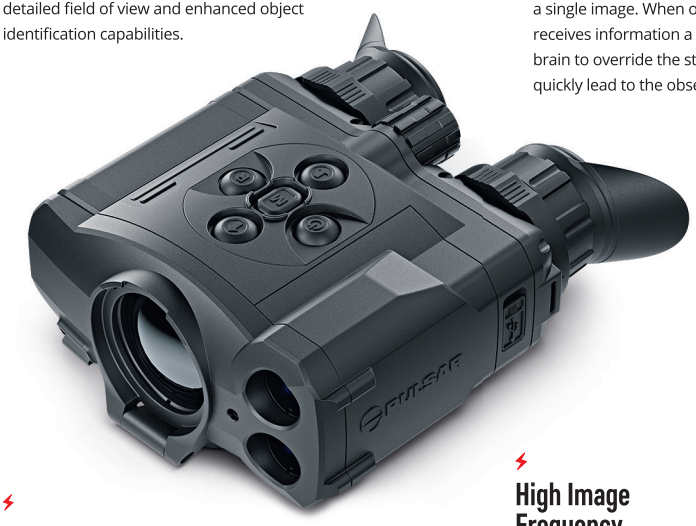
640x480

Long Detection Range

Detecting objects at long distances is an important feature for optics users in outdoor environments. Optic quality and the best thermal imaging sensor available make a unique combination designed to deliver the longest detection range possible.

Image Boost Technology

Pulsar's proprietary Image Boost Technology is comprised of software algorithms designed to increase imaging clarity and overall image detail. Image Boost results in a sharper, more detailed field of view and enhanced object identification capabilities.



Built-in Precision Laser Rangefinder

Integrated, precision laser rangefinder provides accurate rangefinding in two modes – Single Time Measurement and Scanning mode with ±1 m accuracy up to 1 km distance. Accurate distance readings help to quickly assess the size of territory, distance and relief.

Comfortable for Long Observation

The dual eyepiece configuration reduces eye fatigue during longer viewing and enhances the natural look of objects. The human brain is pre-conditioned to receive visual information from two channels simultaneously. The brain then combines the information into a single image. When one eye is used to observe, the brain only receives information a single input. The increased effort from the brain to override the standard algorithm of visual perception can quickly lead to the observer feeling fatigued and uncomfortable.

High Image Frequency

At a high refresh rate of 50 Hz, the Helion provides comfortable viewing throughout dynamic, rapid motion.

50 Hz

Calibration Modes (Non-Uniformity Correction)

A thermal imaging sensor requires calibration or non-uniformity correction (NUC) from time to time. Calibrating reduces or eliminates remaining redundant signals and improves overall image quality. Accolade offers 3 modes of calibration: Automatic, Semi-automatic and Manual. In Automatic mode, the shutter closes and calibration is performed automatically within defined time intervals and without user participation. In Semi-automatic mode the shutter closes and calibration is done only when the user presses the calibration button. In Manual mode, also called "silent", the shutter remains open but the user has to close the objective cap and press the calibration button.

Fully Waterproof

Rain, snow, fog, high waves or waterways, the IPX7 waterproof rating ensures the device won't fail in even the toughest wet weather conditions. The IPX7 rating means the device has been manufactured and rigorously tested to withstand extreme natural weather conditions, even submersion to a depth of 1 meter for up to 30 minutes.

Observation Modes

Image optimization should be performed depending on the environmental location and conditions. Mountains, cities and forests have different ambient temperatures. In order to achieve the highest possible image quality, certain settings have been optimized and gathered into profiles. As a result, optimized imaging in various conditions is easier. Identification preset is another optimal-imaging option that makes identifying easier, even at longer distances.

- Rocks Mode
- Forest Mode
- Identification Mode
- User Mode

Frost Resistant Amoled Display

The device is designed for flawless operation in extreme weather and temperature conditions. Whether the environment is freezing cold or blistering hot, the image retains its contrast and vivid colors without loss of frame rate. The high-contrast, color AMOLED display uses top technology to ensure stable, high-quality imaging in virtually any weather conditions.

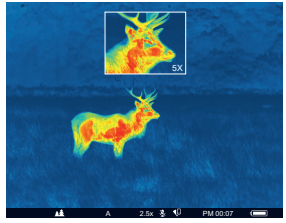
8 Custom Color Modes

The 8-color palette enhances viewing in varying conditions. While the classic White Hot mode is exceptionally versatile, Hot Black is often favored for detecting wildlife at night. Red Monochrome helps to reduce or prevent bright backlight from exiting the eyepiece. Sepia often improves long-range observation while Red Hot, Rainbow and Ultramarine enhance temperature differences of various object attributes. Violet helps to identify objects faster.

Smooth and Incremental Digital Zoom

Incremental zoom is a perfect solution to quick, on-the-fly zooming. When time is not a limiting factor but slight details are, the device's smooth zoom is the better option.

Picture in Picture Function

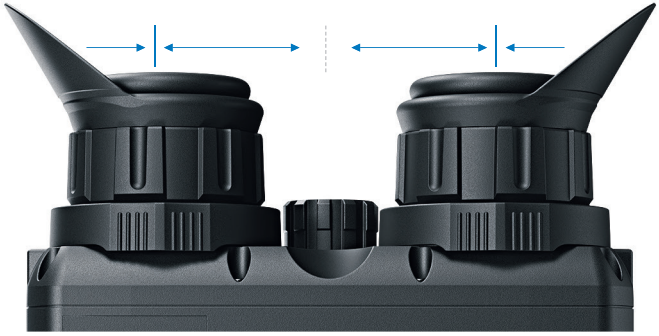


Picture-in-picture displays a magnified image at the top-center 10% of the overall field of view for precise zooming on an object of interest.

Quick-Change Long-Life Rechargeable Battery Packs

The device's innovative battery-release mechanism ensures fast, flawless battery changes. Rechargeable IPS7 battery packs provide up to 10 hours of continuous operation.

Thermal Imaging Binoculars **Accolade 2 LRF**



Variable Interpupillary Distance

The ability to adjust the distance between eyepieces allows the user to best position the optic for individual needs. Interpupillary distance differs from person to person. Adjusting for individual fit dramatically improves viewing comfort and quality, and eliminates the potential for double-imaging.

TECHNICAL SPECIFICATIONS

Model	2 LRF XP50
SKU	**77410**
Microbolometer, resolution, pixels @ pixel pitch, µm	640x480 @ 17
Display, type / resolution, pixels	AMOLED 640x480
Objective lens	F50/1.2
Magnification, x	2.5 – 20
Integrated laser rangefinder	yes
Field of view, horizontal x vertical, without zoom, °	12.4 x 9.3
Range of detection, m	1800
Weight, kg	0.7

Built-in Photo and Video Recorder

The Built-in video recorder is a great asset when it comes to filming or taking photos of once-in-a-lifetime experiences. One press of the REC button captures footage that can be shared easily with colleagues, friends and family.

Live Internet Video Sharing

Connecting the device with a smartphone or tablet allows a user to access the internet and live-stream video directly to YouTube.

Mobile-Friendly with Remote Control and Live Internet Streaming

The free Stream Vision App, compatible with both Android and iOS systems, allows users to connect personal smartphones and tablets to Pulsar devices featuring onboard Wi-Fi. When connected, Stream Vision allows users to stream video and images in real time to YouTube, transfer files, update important firmware and control the optic remotely. For more information, refer to the Stream Vision section of our catalog.

Wi-Fi Video Transmission

Broadcasting a video signal directly to a smartphone or tablet makes remote observation significantly easier. When two people are in the field, both can see the image – one on the device's display, the other on their smartphone or tablet screen. When a situation requires covert operation, the observer does not have to hold the unit by hand. Depending on the situation, viewing from a tablet or smartphone may be safer or more convenient.

STREAM VISION

ANDROID APP ON Google play

Available on the App Store

@PulsarVision Pulsar Vision @pulsar.vision