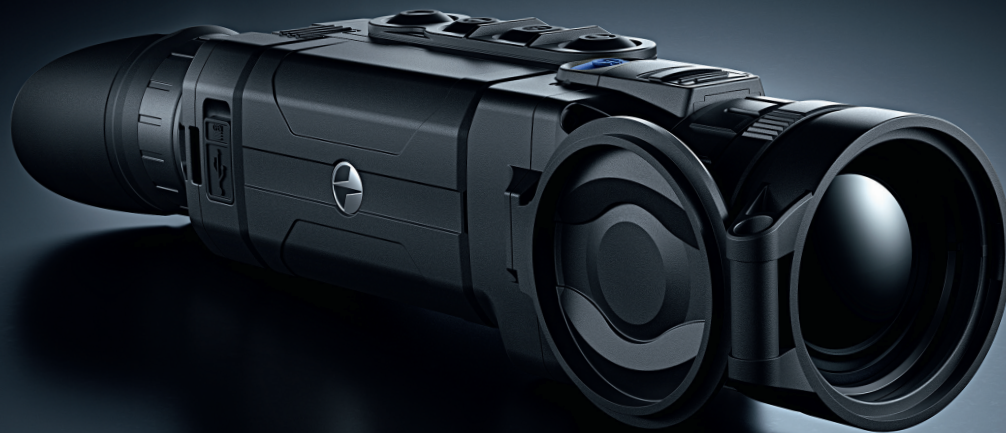




**THERMAL**  
IMAGING



Thermal Imaging Monoculars

**NEW** **HELION 2**

The  
NEXT LEVEL  
OF THERMAL  
SPOTTING

[pulsar-vision.com](http://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.



## 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.



## Detects up to 1800 m Away

Depending on model, the Helion is capable of detecting an average human-size target, dressed in outdoor gear, against a forest backdrop, at a range up to 1800 meters.



## Wide Range of Operating Temperatures

With a frost-resistant AMOLED display, the Helion Thermal Imaging Scope is designed to deliver flawless performance at an extreme temperature range of -25°C to +50°C.



## 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.

## Built-In Photo and Video Recorder



Capturing still images and video is seamless with the Helion's built-in video recorder. Image and video content is stored internally and can easily be transferred to PC/laptop via wired connection or wirelessly to your smartphone or tablet with the iOS and Android compatible Stream Vision App.

## IPX7 Fully Waterproof

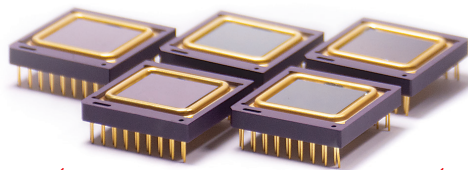
IPX7 waterproof-rated protection ensures Helion Thermal Imaging Scopes perform perfectly in wet weather, even during intense rain, snowfall and submersion in 1 meter of water for up to 30 minutes (IEC 60529).

## Updatable Software

For initial setup and additional updates, the iOS and Android compatible Stream Vision App ensures the most recent Helion software versions are available.

## 50 Hz High Image Frequency

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



# 640x 480

## Stadiametric Rangefinder

Based on estimated heights of observed objects, the stadiametric rangefinding reticle makes determining precise distances fast, easy, reliable and repeatable.

## 8 Custom Color Modes

In addition to user-favorite "white hot" and "black hot" imaging, Helion scopes offer a robust array of color palettes for true colorized temperature mapping. Transitioning from color to default "white hot" during operation is also fast and easy.

## High Resolution

The Helion XP boasts an uncooled, 640x480 px micro-bolometric matrix, at 17  $\mu\text{m}$ , for highly detailed imaging.

## Variable Magnification

Helion models include variable magnification, up to 8x depending on model, and feature both 2x step-up and smooth, graduated magnification for a truly optimum, customized field of view.



Thermal Imaging Monoculars  
**HELION XQ / XP**





## ⚡ 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.



## ⚡ B-Pack Power Supply

Helion includes a progressive autonomous B-Pack power supply consisting of a quick-detach, rechargeable IPS7, 6.4 Ah battery pack designed to deliver over 10 hrs. of operation on maximum mode. Higher-powered IPS14 battery packs, as well as AA battery cases, also are available and provide a perfect off-the-grid power solution.



### TECHNICAL SPECIFICATIONS

Model	XQ38F	XQ50F	XP50
SKU	77396	77397	77402
Microbolometer, resolution, pixels @ pixel pitch, μm	384x288 @ 17		640x480 @ 17
Display, type / resolution, pixels	AMOLED 1024x768		AMOLED 640x480
Objective lens	F38/1.2	F50/1.2	
Magnification, x	3.5 – 14	4.5 – 18	2.5 – 20
Field of view (horizontal), °	9.8	7.5	12.4
Range of detection, m	1350	1800	
Operating temperature, °C	-25 to +50		
Dimensions, mm	226 x 55 x 58	234 x 55 x 58	
Weight, kg	0.45	0.5	