PULSAR

Quick Start Guide

EN Detailed product description and complete user manual are available for download on our official web-page:
www.pulsar-nv.com/glo/products/33/thermal-imaging-scopes/helion-version-2/

FR La description détaillée du produit et un manuel d'instructions complet sont disponibles sur notre site:
www.pulsar-nv.com/glo/fr/produits/439/lunettes-limagerie-thermique/helion-version-2/

DE Die ausführliche Beschreibung des Produktes und volle Betriebsanleitung sind auf unserer Webseite unter dem Link zugänglich:
www.pulsar-nv.com/glo/de/produkte/57/warmebildgerate/helion-version-2/

ES La descripción detallada del producto y el manual de usuario completo están disponibles en nuestro sitio web:
www.pulsar-nv.com/glo/es/productos/64/alcances-de-imagen-termica/helion-version-2/

IT La descrizione dettagliata del prodotto e un manuale di istruzioni completo sono disponibili sul nostro sito:
www.pulsar-nv.com/ita/prodotti/571/ambiti-di-imaging-termico/helion-version-2/

RU Подробное описание продукта и полное руководство по эксплуатации доступны на нашем сайте по ссылке:
www.pulsar-nv.com/glo/ru/produkty/44/teplovizory/helion-version-2/

CE ☒ EHL

v.0121

HELION
Quick Start Guide

Attention! Helion thermal imaging monoculars require a license if exported outside your country.
Electromagnetic compliance. This product complies with EU Standard EN 55032:2015, Class A.
Warning! Operation of this equipment in a residential environment could cause radio interference.

Attention! Les imageurs thermique Helion nécessitent une licence s'ils sont exportés hors de votre pays.
Compatibilité électromagnétique. Ce produit est conforme à la norme européenne EN 55032:2015, Classe A.
Attention! L'utilisation de ce matériel dans un environnement résidentiel peut produire des interférences radio.

Achtung! Wärmebildgeräte Helion benötigen eine Lizenz, wenn sie außerhalb Ihres Landes exportiert werden.
Elektromagnetische Verträglichkeit. Das Produkt entspricht der Europäischen Norm EN 55032:2015, Klasse A.
Warnung! Der Betrieb dieses Gerätes im Wohngebiet kann Funkstörungen verursachen.

¡Atención! Los monoculares de visión térmica Helion requieren una licencia si se exportan fuera de su país.
Compatibilidad electromagnética. Este producto cumple con la reglamentación de la UE EN 55032:2015, Clase A.
Advertencia: el funcionamiento de este equipo en áreas residenciales podría causar radio interferencias.

Attenzione! I monocoli termici Helion richiedono una licenza se esportati al di fuori del proprio paese.
Compatibilità elettromagnetica. Questo prodotto è conforme alla norma europea EN 55032:2015, Classe A.
Avvertenza: l'uso di questa apparecchiatura in un'area residenziale può causare perturbazioni radioelettriche.

Внимание! Тепловизионные монокуляры Helion требуют лицензии, если они экспортируются за пределы Вашей страны.
Электромагнитная совместимость. Данный продукт соответствует требованиям европейского стандарта EN 55032:2015, Класс А.
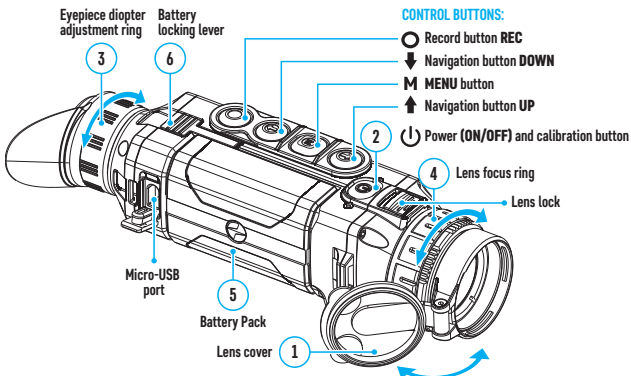**Внимание:** эксплуатация данного продукта в жилой зоне может создавать радиопомехи.

⚡ Operation

Powering on and image setup

- Open the lens cover **(1)**.
- Press the **ON/OFF** button **(2)** briefly to power the device on.
- Adjust the sharp resolution of the symbols on the display by rotating the dioptre adjustment ring of the eyepiece **(3)**.
- Rotate the lens focus ring **(4)** to focus on the visual target.
- Enter the main menu with a long press of the Menu button and select the desired calibration mode: manual **(M)**, semi-automatic **(SA)** or automatic **(A)**.
- Press the **ON/OFF** button **(2)** briefly (when the calibration mode is **SA** or **M**) to calibrate the image. Close the lens cover for manual calibration.
- Select the desired operating mode (**Forest** / **Rocks** / **Identification** / **User** mode) by briefly pressing the **UP** button. **User** mode allows to change and save user brightness and contrast settings.
- Select the appropriate color palette by long pressing the **UP** button.
- Adjust the brightness, display contrast, smooth digital zoom (see the **"Quick menu functions"** section of the full version of the manual.).
- To change the lens, slide the lens lock toward the power button, rotate the lens toward the power supply, and carefully remove the lens. Install the new lens by sliding the lock back, rotate the lens toward the control buttons until it clicks. Configure the image as described above. To display the magnified image properly, configure the lens type in the basic settings of the device (**Lens selection** menu item).
- Upon completion of operation turn the device off by long pressing the **ON/OFF** button **(2)**.

⚡ Components and Controls

Eyepiece diopter adjustment ring **3**
Battery locking lever **6**

CONTROL BUTTONS:
- ○ Record button **REC**
- ↓ Navigation button **DOWN**
- **M** **MENU** button
- ↑ Navigation button **UP**
- ⏻ Power **(ON/OFF)** and calibration button

2
4 Lens focus ring
Lens lock

Micro-USB port
5
Battery Pack
Lens cover **1**

⚡ Buttons Operation

| Button	Device Status	First short press	Next short press	Long press
Button ON/OFF ⏻	**Device switched off**	Turning on device	Sensor calibration	Switch display off/ Switch device off
	Display off	Turning on display	Sensor calibration	
	Device on	Sensor calibration		
Navigation button UP ⬆	**Normal (observation)**	Toggle observation modes		Switching color palettes
	Main menu	Navigate upwards/ rightwards		---
	Quick Access menu	Parameter change		---
MENU button M	**Normal (observation)**	Enter the quick access menu	---	Access main menu
	Main menu	Confirm selection		Exit submenu without confirming selection/ exit the menu (go to observation mode)
	Quick Access menu	Switching between quick access menu items		
Navigation button DOWN ⬇	**Normal (observation)**	Discrete zoom adjustment		Switch PiP on/ off
	Main menu	Navigation downwards/ leftwards		---
	Quick Access menu	Parameter change		---
Record button REC ⭕	**Video**	Start video recording	Pause/ resume video recording	Video recording off/Switch to video mode
	Photo	Photography		Switch to video mode

⚡ Battery pack charging

- Lift up the lever **(7)** of the charger.
- Install the Battery Pack **(5)** into the charger as far as it can go.
- Lower the lever **(7)**.
- Connect the micro USB plug of the USB cable **(8)** to the micro USB port **(9)** of the charger.
- Connect the other end of the microUSB cable to the mains adapter **(10)**.
- Plug the mains adapter **(10)** into a 100 - 240 V socket **(11)**.
- Disconnect the charger from the mains after the battery is fully charged (green LED light stays on continuously).

Lever **7**

LED Indicator

● Green LED light stays on continuously – battery is full
● Blinking red LED light – battery is empty

Battery Pack

5

Micro USB port **9**

Network **11**

USB cable **8**

10

Mains adapter
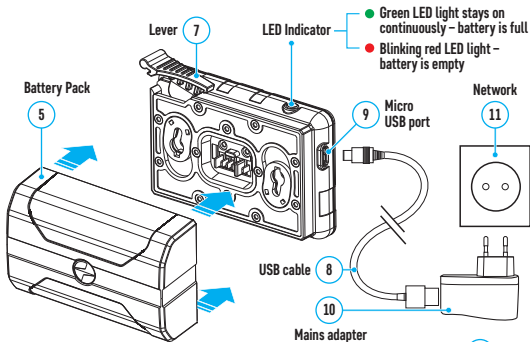
6 Lever

Installing Battery Pack

· Lift up the lever **(7)**. Remove the battery **(5)** from the charging pad.
· Lift up the battery locking the lever **(6)**.
· Insert the battery **(5)** as far as it will go into the slot of the device body designed for it so that the F part is at the bottom.
· Lock the battery by lowering the lever **(6)**.

F
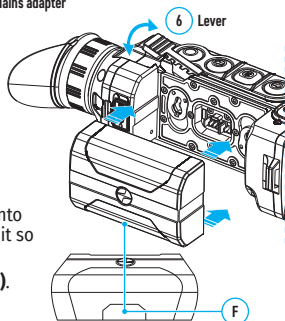
⚡ Stream Vision App

Download the Stream Vision app to stream the image via Wi-Fi from the display of your device to a smartphone or tablet. Detailed instructions are available on the Internet at: **www.pulsar-vision.com**

STREAM VISION

ANDROID APP ON
Google play

Available on the
App Store

⚡ Specifications

MODEL	HELION 2 XP50
SKU	**77402**
MICROBOLOMETER	
Type	uncooled
Resolution, pixels	640x480
Frame rate, Hz	50
Pixel size, microns	17
OPTICAL SPECIFICATIONS	
Magnification ratio, x	2.5
Smooth digital zoom, x	2.5 - 20
Digital zoom	x2/ x4/ x8
Lens	F50 mm, F/1.2
Field of view angle (horizontal), deg	12.4
Eyepiece focusing range, diopters	±5
Detection distance for deer-sized objects, m (y)	1800 (1970)
DISPLAY	
Type	AMOLED
Resolution (pixels)	640x480
OPERATIONAL CHARACTERISTICS	
Power supply, V	3 - 4.2
Battery Type/Capacity/Nominal output voltage	Li-ion Battery Pack IPS7/ 6400 mAh/ DC 3.7 V
External power supply	5 V (USB)
Battery run time (at t=22 °C)*, h	10
Protection degree, IP code (IEC60529), with battery installed	IPX7
Operating temperature range, °C (°F)	-25...+50 (-13...+122)
Dimensions, mm/ inch	234x55x58 / 9.21x2.17x2.28
Weight without battery, kg / oz	0.5 / 17.64
VIDEO RECORDER	
Video/photo resolution, pixels	640x480
Video/photo formats	.avi/ .jpg
Built-in memory	16 GB
Built-in memory	About 8 hours of video or more than 100 000 photos
WI-FI CHANNEL	
Frequency	2.4 GHz
Standard	802.11 b/g
Reception range, m	15

 * Actual battery life may vary depending on the use of Wi-Fi and the built-in video recorder.

The product design improvements are possible to make it more appealing for the consumer.

⚡ Package Contents

- Helion 2 thermal imager
- IPS7 Battery Pack
- Battery Pack charger with mains adapter
- USB cable
- Carrying case
- Hand strap
- Quick start guide
- Lens-cleaning cloth
- Warranty sheet

The current version of the User's Manual can be found on the website
www.pulsar-vision.com

Repair of the device is possible within 5 years.