PULSAR

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Thermal Imaging Riflescope

THERMION 2 LRF PRO

Quick Start Guide

EN **Attention!** Thermion thermal imaging riflescopes require a license if exported outside your country.

Electromagnetic compatibility. This product complies with the requirements of European standard EN 55032: 2015, Class A.

Operating this product in a residential area may cause radio interference.

This product is subject to change in line with improvements to its design.

The device repair is possible within 5 years.

The current version of the Quick Start Guide can be found on the website www.pulsar-vision.com

FR **Attention!** Les lunettes d'imagerie thermique Thermion nécessitent une licence s'ils sont exportés hors de votre pays.

Compatibilité électromagnétique. Ce produit est conforme aux exigences de la norme européenne EN 55032: 2015, classe A.

L'utilisation de ce produit dans une zone résidentielle peut provoquer des interférences radio.

La configuration peut être modifiée afin d'améliorer l'utilisation de l'appareil.

La période de maintenance de l'appareil est de cinq ans.

Vous trouverez la version actuelle du Guide de Démarrage Rapide à l'adresse www.pulsar-vision.com

DE **Achtung!** Wärmebildzielfernrohre Thermion benötigen eine Lizenz, wenn sie außerhalb Ihres Landes exportiert werden.

Elektromagnetische Verträglichkeit. Dieses Produkt entspricht den Anforderungen der Europäischen Norm EN 55032:2015, Klasse A.

Der Betrieb dieses Produktes in Wohngebieten kann Funkstörungen verursachen.

Änderungen im Design zwecks höherer Gebrauchseigenschaften des Produktes vorbehalten.

Die Reparatur des Gerätes ist innerhalb von 5 Jahren möglich.

Die aktuelle Version der Kurzanleitung ist auf der Website www.pulsar-vision.com zu finden.

ES **¡Atención!** Los visores de visión térmica Thermion requieren una licencia si se exportan fuera de su país.

Compatibilidad electromagnética. Este producto cumple con los requisitos de la norma europea EN 55032:2015, Clase A.

El uso de este producto en la zona residencial puede provocar interferencias de radiofrecuencia.

El diseño de este producto está sujeto a modificaciones con el fin de mejorar sus características de uso.

El plazo de reparación posible del dispositivo es de cinco años.

La versión actual de la guía de inicio rápido se encuentra en el sitio web www.pulsar-vision.com

IT **Attenzione!** I visori termici Thermion necessitano di una licenza per essere esportati al di fuori del proprio paese.

Compatibilità elettromagnetica. Questo prodotto è conforme ai requisiti della norma europea EN 55032:2015, Classe A.

l'uso di questo prodotto in un'area residenziale può causare dei radiodisturbi.

Per migliorare le proprietà del prodotto nella sua costruzione possono essere apportate delle modifiche.

Il periodo di un'eventuale riparazione del dispositivo è di 5 anni.

La versione attuale della guida di avvio rapido è disponibile sul sito www.pulsar-vision.com

RU **Внимание!** Тепловизионные прицелы Thermion требуют лицензии, если они экспортируются за пределы Вашей страны.

Электромагнитная совместимость. Данный продукт соответствует требованиям европейского стандарта EN 55032:2015, Класс А.

Эксплуатация данного продукта в жилой зоне может создавать радиопомехи.

Для улучшения потребительских свойств изделия в его конструкцию могут вноситься усовершенствования.

Срок возможного ремонта прибора составляет 5 лет.

Актуальную версию краткой инструкции по эксплуатации Вы можете найти на сайте www.pulsar-vision.com

CLASS 1
LASER PRODUCT
BS / EN 60825-1: 2014

EN Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

FR L'emploi de commandes, réglages ou performances de procédure autres que ceux spécifiés dans ce manuel peut entrainer une exposition á des rayonnements dangereux.

DE Wenn andere als die hier angegebenen Bedienungs- oder Justiereinrichtungen benutzt oder andere Verfahrensweisen ausgeführt werden, kann dies zu gefährlicher Strahlungsexposition führen.

ES La utilización de controles, ajustes o parámetros de procedimiento distintos de los aqui indicados puede provocar una exposición a radiaciones peligrosas.

IT In caso di utilizzo di dispositivi di comando o di regolazione di natura diversa da quelli riportati in questa sede oppure qualora si seguano procedure diverse vi é il pericolo di provocare un'esposizione alle radiazioni particolarmente pericolosa.

RU Использование других не упомянутых здесь элементов управления и настройки или других методов эксплуатации может подвергнуть Вас опасному для здоровья излучению.

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THERMION 2 LRF PRO

Thermal Imaging Riflescope

EN

THERMION 2 LRF PRO

Thermal Imaging Riflescope

DESCRIPTION

Thermal imaging riflescopes Thermion 2 LRF Pro are designed for the use on hunting rifles, both in the nighttime, and in the daylight in inclement weather conditions (fog, smog, rain) to see through obstacles hindering detection of targets (branches, tall grass, thick bushes etc.).

These riflescopes are designed for hunting, target shooting and recreational shooting, observation and orientation.

The riflescopes are equipped with a high precision built-in laser rangefinder which allows distance measurement up to 800 meters.

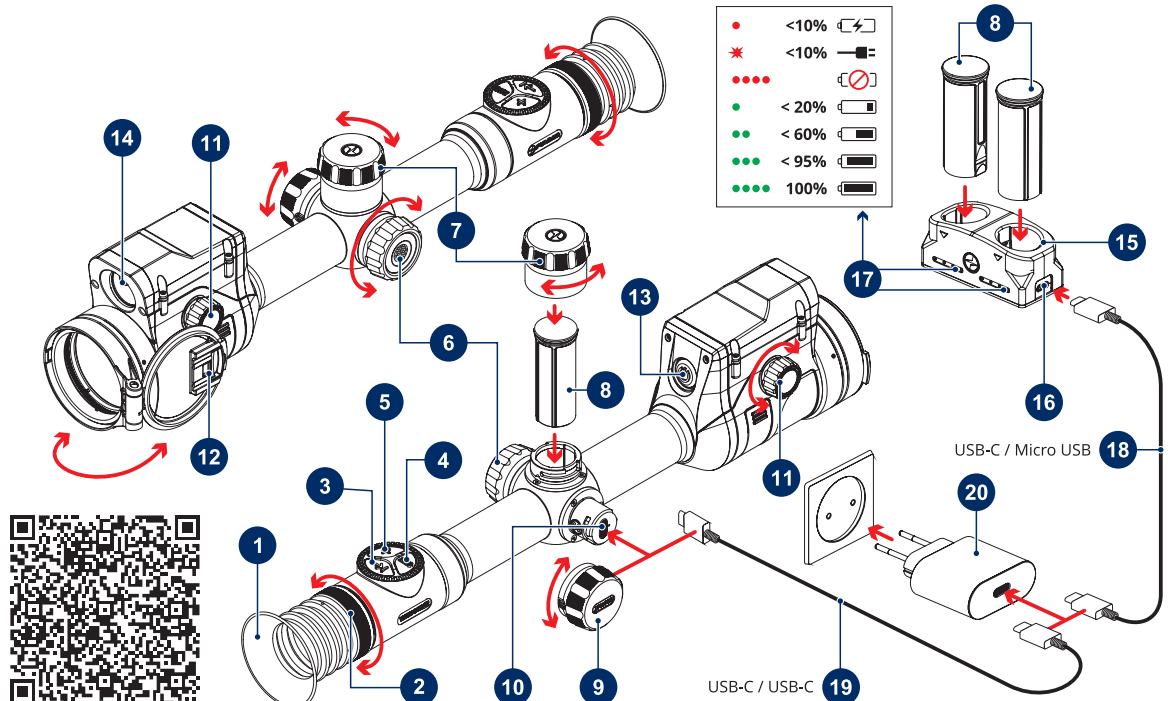
PACKAGE CONTENTS

- Thermal imaging riflescope
- APS2 Battery Pack
- APS battery charger
- Power adapter
- USB Type-C - Type-C cable
- USB Type-C - Micro USB Type-B cable
- Carrying case
- Lens-cleaning cloth
- Quick User Manual
- Warranty card
- APS3 battery cover

COMPONENTS AND CONTROLS

1. Eyecup
2. Eyepiece diopter adjustment ring
3. LRF button
4. REC button
5. ZOOM button
6. Controller
7. Battery compartment cover
8. Battery APS2
9. USB Type-C cover
10. USB Type-C port
11. Lens focus knob
12. Lens cap
13. ON/OFF button
14. Laser rangefinder
15. APS battery charger
16. Micro USB Type-B port of the APS charger
17. LED indicator
18. USB Type-C - Micro USB Type-B cable
19. USB Type-C - Type-C cable
20. Power adapter

The Detailed User's Manual is available through a QR code →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USB-C / Micro USB
USB-C / USB-C
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GETTING STARTED

- Before first use, the battery **(8)** should be charged according to the diagram in the figure.
- Install the battery **(8)** into the battery compartment along the special guides in the device body designed for it.
- Open the lens cap **(12)**.
- Press the **ON/OFF button (13)** briefly to power the device on.
- Adjust the sharpness of the symbols on the display by rotating the diopter adjustment ring of the eyepiece **(2)**.
- Rotate the lens focus knob **(11)** to focus on the object being observed.
- Enter the main menu with a long press of the controller button **(6)** and select the desired calibration mode: manual (M), semi-automatic (SA) or automatic (A).
- Calibrate the image with a short press of the **ON/OFF button (13)** (when calibration mode SA or M has been selected). Close the lens cap before manual calibration.
- Select the required observation mode (“Forest”, “Rocks”, “Identification”, “User”) by long pressing the **LRF button (3)** or in the main menu. User mode allows you to configure and save custom brightness and contrast settings, as well as one of three modes as a base.
- Activate the quick menu by briefly pressing the controller button **(6)** to adjust the brightness and contrast of the display (see the Quick Menu Functions section of the full version manual for details).
- Press the **ZOOM button (5)** successively to change the magnification ratio of the riflescope. While the icon ⊕ is visible on the screen, rotate the controller ring **(6)** for smooth digital zooming from the current magnification.
- Press the **LRF button (3)** briefly to start the rangefinder. The rangefinder reticle will appear in the center of the display. Briefly press the **LRF button (3)** to measure the distance. Press and hold down the **LRF button (3)** for 2 seconds to measure the distance in scan mode.
- Power the device off with a long press of the **ON/OFF button (13)**.

BUTTON OPERATION

(13) ON/OFF button	
Device is off:	Power on the device: short press of the **ON/OFF button (13)**.
Device is on:	Power off the device: long press of the **ON/OFF button (13)** for longer than 3 seconds.
	Turn display off: long press of the **ON/OFF button (13)** for less than 3 seconds.
	Turn display on: short press of the **ON/OFF button (13)**.
	Microbolometer calibration: short press of the **ON/OFF button (13)**.
(4) REC button	
Device is in Video mode:	Start /pause/resume video recording: short press of the **REC button (4)**.
	Stop video recording: long press of the **REC button (4)**.
	Switch to Photo mode: long press of the **REC button (4)**.
Device is in Photo mode:	Capture a photo: short press of the **REC button (4)**.
	Switch to Video mode: long press of the **REC button (4)**.

(5) ZOOM button	
Device is on:	Control discrete digital zoom: short press of the **ZOOM button (5)**.
	PiP on/off: long press of the **ZOOM button (5)**.
(6) Controller	
Device is on:	Enter Quick Menu: short press of the controller button **(6)**.
	Enter Main Menu: long press of the controller button **(6)**.
In Quick Menu:	Navigation upwards: short press of the controller button **(6)**.
	Exit Quick Menu: long press of the controller button **(6)**.
	Parameter change: rotation of the controller **(6)**.
In Main Menu:	Main menu navigation: rotation of the controller **(6)**.
	Confirm selection: short press of the controller button **(6)**.
	Parameter change: rotation of the controller **(6)**.
	Exit submenu without confirming selection: long press of the controller button **(6)**.
	Exit Main Menu: long press of the controller button **(6)**.
Device is in Zoom mode:	Smooth Zooming: rotation of the controller **(6)**.

(3) LRF button	
Device is on:	Turn on the rangefinder/measuring distance: short press of the **LRF button (3)**. Activate SCAN mode: long press of the **LRF button (3)**. Toggle between observation modes: long press of the **LRF button (3)**.
SCAN mode:	Deactivate SCAN mode: short press of the **LRF button (3)**. Turn off the rangefinder: long press of the **LRF button (3)**.

MOUNTING ON THE RIFLE

To ensure accurate shooting the Thermion 2 LRF Pro riflescope should be properly mounted on the rifle.

- The riflescope is fixed using the mount, which is purchased separately.
- Use only high-quality mounts and rings that are designed especially for your rifle.
- It is recommended to install the riflescope as low as possible, at the same time it should not be in contact with barrel or receiver.
- Before securing the fastening rings, ensure that the riflescope provides the necessary eye relief and enables you to see the entire field of view.

ZEROING

Zeroing at a temperature close to the riflescope's operating temperature is recommended.

Step 1. Take a shot

- Mount the rifle with the riflescope installed on a bench rest.
- Set a target at a certain distance.
- Point the rifle at the center of the target and shoot.

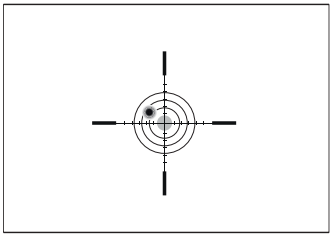
Step 2. Align the reticle with the impact point

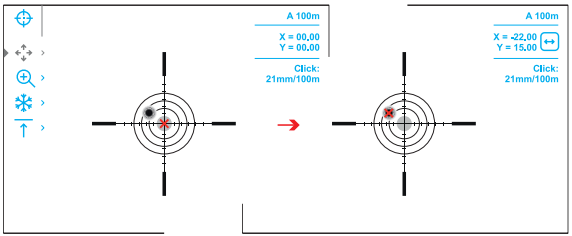
- Go to the main menu, → "Reticle & zeroing" ⌖ → "Add new distance" ⊕, set the zeroing distance value.
- Enter the "Windage / Elevation" ✥ submenu.
- While holding the reticle at the aiming point, move the auxiliary cross ✕ until it is aligned with the impact point by rotating the controller ring **(6)**. To change the direction of the auxiliary cross movement from horizontal to vertical, press the controller button **(6)** briefly.

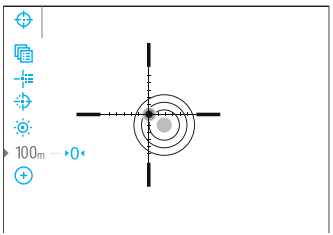
Note: in order not to hold the reticle at the initial aiming point, select the "Freeze" ❄ button or press the **ON/OFF button (13)** briefly before starting the adjustment of zeroing coordinates. The image will "Freeze" and the icon ❄ will appear.

Step 3. Save the coordinates

- Press and hold the controller button **(6)** to save a new position for the reticle.
- Exit the zeroing menu by long pressing the controller button **(6)**.
- Fire a second shot - now the point of impact and the aiming point must be matched.







SPECIFICATIONS

Model	LRF XP50 PRO
SKU	**76551**
Microbolometer	640x480 px @ 17 µm, 50 Hz
NETD, mk	< 25
Optical Specifications	
Lens Focus, mm	F50/1.0
Magnification, x	2-16
Eye Relief, mm	50
Field of view (horizontal), °/m@100 m	12.4 / 21.8
Detection distance (Object of "deer" type), m/y	1800 / 1968.5
Aiming Reticle	
Click value (H/V), mm@100 m – when magnifying, x	21 – 2x / 10.5 – 4x / 5.25 – 8x / 2.6 – 16x
Display	
Type / Resolution, px	AMOLED / 1024x768
Operating Features	
Battery Type / Capacity	Li-Ion Battery Pack APS2 / 2000 mAh (removable)*
External Power Supply	5 V, 9 V (USB Type-C Power Delivery)
Max. Battery Operating Time (built-in APS5 and removable APS2) at t = 22 °C, h**	10
Maximum Recoil Power on Rifled Weapons, Joules	6000
Degree of Protection, IP code (IEC60529)	IPX7
Operating Temperature, °C (°F)	-25 – +50 (-13 – +122)
Dimensions with an eyecup, mm/inch	420x78.5x94.5 / 16.54x3.09x3.72
Weight (without removable battery), kg / oz	0.97 / 34.22
Laser Rangefinder	
Max. Measurement Range, m/y***	800 / 874.9

* APS3 Battery Pack can be used (sold separately).

** The actual operating time depends on the intensity of using Wi-Fi, video recorder, laser rangefinder.

*** Depends on the characteristics of the object under observation and environmental conditions.