



Quick Start Guide

KRYPTON

FXG50 Thermal Imaging Front Attachment

ENGLISH / FRANÇAIS / DEUTSCH / ESPAÑOL / ITALIANO / РУССКИЙ

EN Electromagnetic compatibility. This product complies with the requirements of European standard EN 55032: 2015, Class A.
Caution: Operating this product in a residential area may cause radio interference.
Attention! A license is required for Thermal Imager **Krypton FXG50** when exporting outside your country.
This product is subject to change in line with improvements to its design.
The current version of the User's Manual can be found on the website www.pulsar-vision.com

FR Compatibilité électromagnétique. Ce produit est conforme aux exigences de la norme européenne EN 55032: 2015, classe A.
Attention: L'utilisation de ce produit dans une zone résidentielle peut provoquer des interférences radio.
Attention! Les modules d'imagerie thermiques **Krypton FXG50** nécessitent l'obtention d'une licence s'ils sont exportés hors de votre pays.
La configuration peut être modifiée afin d'améliorer l'utilisation de l'appareil. La version actuelle du manuel d'utilisation est disponible sur le site www.pulsar-vision.com

DE Elektromagnetische Verträglichkeit. Dieses Produkt entspricht den Anforderungen der Europäischen Norm EN 55032:2015, Klasse A.
Achtung: Der Betrieb dieses Produktes in Wohngebieten kann Funkstörungen verursachen.
Achtung! Die Wärmebildgeräte **Krypton FXG50** erfordern eine Lizenz, wenn sie über die Grenzen Ihres Landes exportiert werden.
Änderungen im Design zwecks höherer Gebrauchseigenschaften des Produktes vorbehalten.
Die aktuelle Version der Bedienungsanleitung finden Sie unter www.pulsar-vision.com

ES Compatibilidad electromagnética. Este producto cumple con los requisitos de la norma europea EN 55032:2015, Clase A.
Advertencia: el uso de este producto en la zona residencial puede provocar interferencias de radiofrecuencia.
¡Atención! Los dispositivos de imagen térmica **Krypton FXG50** requieren una licencia si se exportan fuera de su país.
El diseño de este producto está sujeto a modificaciones con el fin de mejorar sus características de uso.
Encontrará la última edición del manual de usuario en el sitio web www.pulsar-vision.com

IT Compatibilità elettromagnetica. Questo prodotto è conforme ai requisiti della norma europea EN 55032:2015, Classe A.
Attenzione: l'uso di questo prodotto in un'area residenziale può causare dei radiodisturbi.
Attenzione! I visori termici **Krypton FXG50** necessitano di un certificato nel caso in cui vengano esportati.
Per migliorare le proprietà del prodotto nella sua costruzione possono essere apportate delle modifiche.
La versione aggiornata delle istruzioni d'uso è disponibile sul sito www.pulsar-vision.com

RU Электромагнитная совместимость. Данный продукт соответствует требованиям европейского стандарта EN 55032:2015, Класс А.
Внимание: эксплуатация данного продукта в жилой зоне может создавать радиопомехи.
Внимание! Тепловизоры **Krypton FXG50** требуют лицензии, если они экспортируются за пределы Вашей страны.
Для улучшения потребительских свойств изделия в его конструкцию могут вноситься усовершенствования.
Актуальную версию инструкции по эксплуатации Вы можете найти на сайте www.pulsar-vision.com

KRYPTON FXG50

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⚡ Package Contents

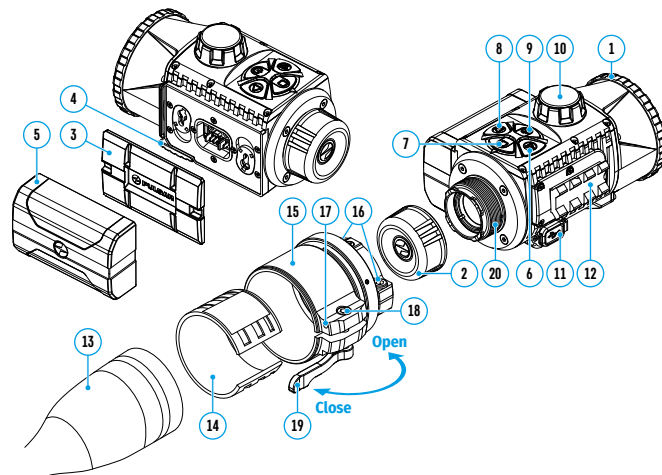
- Thermal Imaging Attachment
- Carrying Case
- IPS7 Battery Pack
- Battery Pack Charger
- Power Adapter
- USB Cable
- Quick Start Guide
- Lens-Cleaning Cloth
- Warranty Card

⚡ Description





Thermal Imaging Front Attachment **Krypton FXG50** is a multipurpose device that allows you to quickly and easily transform a daylight optical sight into a thermal imaging one. The attachment is mounted on the lens of an optical sight with the help of adapters designed for various lens diameters. The attachment does not require any additional adjustment. The attachment is intended for various applications, including hunting, sport shooting, night photography & video recording, and surveillance.

⚡ Components and controls

1. Lens cover
2. Eyepiece cover
3. Battery compartment cover
4. Battery locking lever
5. Battery pack
6. **REC** button
7. **MENU** button
8. **MODE** button
9. **ON** button
10. Lens focus knob
11. USB port
12. Weaver rail
13. Optical sight lens
14. Insert
15. Adapter
16. Screws
17. Tightening screw
18. Screw
19. Adapter lever
20. Mount

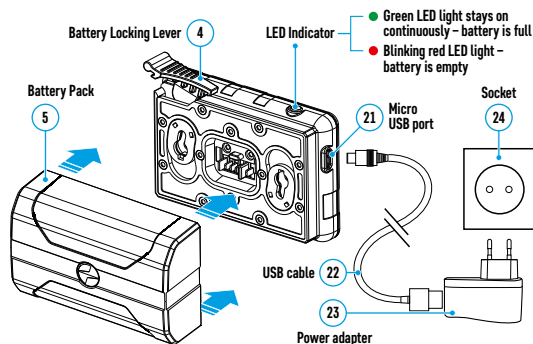


⚡ Description of buttons function

BUTTON	SHORT PRESS	LONG PRESS
ON/OFF (9) 	Turn on device / Turn on display / Device calibration	Turn off device / Turn off display
MODE (8) 	Switch observation modes / Menu navigation down/left/ counterclockwise	Turn on / off the Black Hot palette
MENU (7) 	Enter quick menu / Switch between quick menu items / Confirm selection	Exit quick menu / Enter/exit main menu
REC (6) 	Start/pause/resume video recording / Photography / Menu navigation up/right/clockwise	Toggle between photo and video mode / Stop video recording /

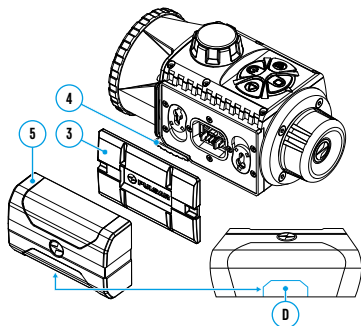
⚡ Charging battery pack

- Lift up the lever (4) of the Charger.
- Insert the Battery Pack (5) into the Charger until it stops; lock the Battery by lowering the lever (4).
- Connect the microUSB plug of the USB cable (22) to the microUSB port (21) of the charger.
- Connect the second plug of the USB Cable (22) to the Power Adapter (23).
- Plug the Power Adapter (23) into a 100-240 V socket (24).
- Disconnect the Power Adapter (23) from the mains after the Battery is fully charged (green LED light stays on continuously).



Installing Battery Pack

- Lift the lever (4)
- Remove the protective cover of the battery compartment (3).
- Remove the Battery (5) from the Charger.
- Insert the Battery (5) into the slot on the device body specially designed for it so that the element D (a ridge on the Battery body) is facing downwards.
- Lock the Battery (5) by lifting the lever (4). Lock the Battery (5) by lowering the lever (4).



⚡ Operation

Mounting attachment on optical sight

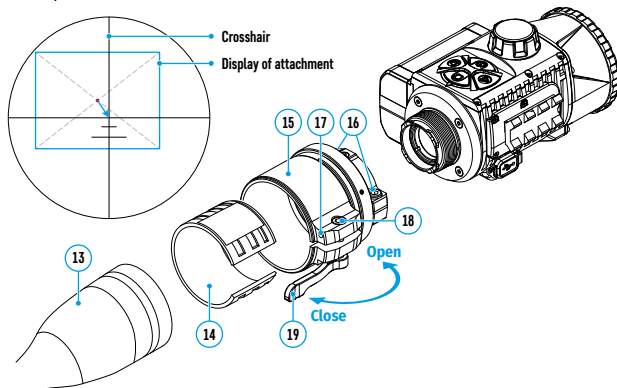
- Remove the eyepiece cover (2).
- Select the Ring Adapter (15) (sold separately) with the insert (14) of the required diameter depending on the outer diameter of the lens of your optical sight (13) (see Table). The designation 42 mm / 50 mm / 56 mm in the name of the adapter means the lens diameter of the optical sight.

Selection table for riflescope inserts

Ring Adapter model	The internal diameter of the insert needs to match the outer diameter of the objective lens housing of the daylight riflescope it is being installed on.	
	Insert internal diameter, mm	Suitable for lens housing of daylight riflescopes with an outer diameter of, mm
PSP Ring Adapter 42 mm	45,5	45,5
	46	46
	46,5	46,5
	47	46,7-47,6
	48	47,7- 48,6
	49	48,7-49,6
PSP Ring Adapter 50 mm	50	49,7-50,6
	51,6	51,6
	53,4	53,4
	55	54,7-55,6
	56	55,7-56,6
	57	56,7-57,6
PSP Ring Adapter 56 mm	58	57,7-58,6
	59	58,7-59,6
	60	59,7-60,6
	61	60,7-61,6
	62	61,7-62,6
	63	62,7-63,6
	64	63,7-64,6
	65	64,7-65,6

- Screw together the Ring Adapter (15) and the attachment along the threads of the mounting area (20) until it stops. Then untighten a little (no more than one turn) so that the lever (19) is on the right side (see Figure).
- Evenly tighten the screws (16) until the ball joint grips in the Ring Adapter (15).
- Apply 2-3 strips of double-sided tape to the outer surface of the insert of your choice (14).
- Push the insert (14) of your choice into the Ring Adapter (15) until it stops.
- Move the lever (19) to the OPEN position.
- Before installing the Ring Adapter (15) onto the optical sight, it is recommended to degrease the lens body of the optical sight (13).
- Mount the Ring Adapter (15) with the insert (14) onto the lens of the optical sight (13) as far as it will go.
- If the Ring Adaptor (15) with the insert (14) selected according to the table cannot be mounted onto the lens (10), follow the steps below:
 - Loosen the locking screw (17) with a 2mm Allen key.
 - Untighten the screw (18) with a hex wrench (S = 4mm) until the Ring Adaptor with the insert can be mounted onto the lens (13).
- Move the lever (19) from its initial OPEN position to the CLOSE position.
- Loosen the locking screw (17) with a 2mm Allen key, if it hasn't been done before.
- Tighten the screw (18) using a 4mm Allen key. The clamping force should be 1,5-2 Nm (use a torque screwdriver) to ensure the lever is correctly tightened (19), while the Ring Adapter with the attachment should not move relative to the body of the optical sight (13). If necessary, tighten or loosen the screw (18) to operate the lever (19) in the best way possible.
- Tighten the locking screw (17) as far as it will go.
- Turn on the attachment by briefly pressing the ON button (9).
- Align the display center with the crosshairs of the reticle by tilting the attachment.

- Align top and bottom display boundaries parallel to the horizontal axis of the optical sight by turning the attachment clockwise or counterclockwise.
- Having reached the best possible position of the attachment, tighten two screws (16) until stop. The clamping force should be 6.5-7.5 N·m (use a torque screwdriver to check).



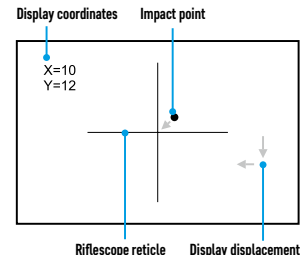
Powering on and image setup

- Remove the lens cover (1) by turning it counterclockwise.
- Turn on the attachment by pressing the **ON (9)** button.
- If necessary, adjust the reticle sharpness according to the instructions for your scope.
- Rotate the lens focus knob (10) to focus on the visual target.
- Enter the main menu with a long press of the **MENU button (7)** and select the desired calibration mode: manual (**M**), semi-automatic (**SA**) or automatic (**A**).
- Calibrate the image by briefly pressing the **ON button (9)**. Close the lens cover when calibrating manually.
- Select the desired observation mode (**Forest, Rocks, Identification** or **User**) by briefly pressing the **MODE button (8)** 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.
- Select one of the two color palettes by a long press of the **MODE button (8)**.
- Activate the quick menu by briefly pressing the **MENU button (7)** to adjust the brightness and contrast of the display (see the **Quick Menu Functions** section of the full version manual for details).
- Upon completion of use turn the device off by a long press of the **ON button (9)**.

⚡ Display Calibration

The attachment is configured so that after fitting onto an optical sight that had been properly zeroed, no adjustment of the aiming point is required. Yet if point of impact change is observed after putting on the attachment, you can fix it with display calibration procedure.

- To enter display calibration mode, first press and hold the **MENU button (7)** for 10 seconds.
- The display coordinates X=0; Y=0 will appear.
- Use the **LEFT (8)** and **RIGHT (6)** buttons to move the display horizontally (X axis) and vertically (Y axis) so that the point of impact moves to the centre of the riflescope reticle.
- Press the **MENU button (7)** to toggle between the X and Y coordinates.
- The image offset range is +/- 30 pixels horizontally (X axis), +/- 30 pixels vertically (Y axis).
- To exit the menu and save the settings, press and hold the **MENU button (7)** for two seconds.



⚡ Stream Vision App

Download the Stream Vision app to stream the image (via Wi-Fi) from your device to a smartphone or tablet, to view recorded files and update the software on the device. A detailed user guide is available at pulsar-vision.com



ANDROID APP ON
Google play



Available on the
App Store

⚡ Specifications

MODEL	KRYPTON FXG50
SKU	76655
MICROBOLOMETER	
Type	Uncooled
Resolution, Pixels	640x480
Pixel Pitch, µm	12
Frame Rate, Hz	50
OPTICAL CHARACTERISTICS	
Magnification of attachment, x	1
Recommended daylight optics magnification, x	1.5-6
Lens	F50/1.2
Field-of-view (Horizontal), deg/m per 100 m	8.7/15.4
Detection Range (animal height 1.7 m), m/y	2300/2515
Minimum Focusing Distance, m/y	5/5.47
DISPLAY	
Type	AMOLED
Resolution, Pixels	1746x1000
OPERATIONAL CHARACTERISTICS	
Power Supply, V	3-4.2
Battery type/ Capacity/ Rated Output Voltage	Li-Ion Battery Pack IPS 7 / 6400 mAh / DC 3.7 V
External Power Supply	5 V (USB)
Max. Battery Pack Life (at t = 22 °C), Hour	8
Degree of protection IP code (IEC60529)	IPX7
Maximum Recoil Power when Used with a Rifled Weapon, Joules	6000
Maximum Shock-Resistance when Used with a Slug Gun, Calibre	12
Operating temperature, °C	-25 ... +50
Overall Dimensions, mm/inch	143x93x76/5.63x3.66x2.99
Weight (without Battery), kg/oz	0.52/18.34
VIDEO RECORDER	
Photo/Video Resolution, Pixels	960x720
Video/Photo Format	.mp4/.jpg
Built-in Memory	16 GB
WI-FI CHANNEL	
Frequency	2.4 GHz
Standard	802.11 b/g
Line-of-Sight Reception Range*, m/y	up to 15/16.4

*Reception range may vary depending on various factors: the presence of obstacles, other Wi-Fi networks.

The device repair is possible within five years.