

Pulsar XG30

Pulsar Axion Compact Thermal Imaging Monocular XG30 User Manual

Brand: Pulsar | Model: XG30

INTRODUCTION

The Pulsar Axion Compact Thermal Imaging Monocular XG30 is a state-of-the-art device designed for enhanced observation in various conditions. Its compact and lightweight design makes it highly portable, while advanced thermal imaging capabilities provide clear visuals for a range of applications, including scouting, hunting, and monitoring livestock. This manual provides essential information for setting up, operating, and maintaining your device.



Figure 1: The Pulsar Axion Compact Thermal Imaging Monocular XG30, showcasing its sleek, dark grey design with prominent Pulsar

SETUP

Battery Installation and Charging

The Axion XG30 uses an APS 3 Battery. To install or replace the battery, locate the battery compartment on the device. Insert the APS 3 battery pack, ensuring proper orientation, until it clicks securely into place. For charging, connect the provided power adapter to the USB-C charging port located on the front of the device. A full charge ensures optimal operating time.



| APS 5 LI-ION BATTERY
Up to 7 hours of Continuous use

Figure 2: The Pulsar Axion monocular with its APS 5 Li-Ion battery pack removed, illustrating the easy battery replacement process. The device is designed for up to 7 hours of continuous use.

Initial Power-On

Press and hold the power button (usually the central blue button) until the display illuminates. Allow a few moments for the device to initialize. Adjust the diopter on the eyepiece for clear focus according to your vision.

Basic Controls and Navigation

The Axion XG30 features intuitive controls for easy operation. The main buttons on the top panel allow for power on/off, menu navigation, and digital zoom adjustments. Familiarize yourself with the button layout for quick access to functions.

Magnification and Field of View

The monocular offers a 2-16x magnification range, allowing for detailed observation of distant objects. Its 14.6° wide field of view is ideal for scanning large areas efficiently, ensuring you don't miss any details.



14.6° wide field of view
for easy scanning

Figure 3: A thermal image captured through the Pulsar Axion, demonstrating its 14.6° wide field of view, which is excellent for easy scanning and observing multiple subjects.

Color Modes

The Axion XG30 provides eight distinct color modes to adapt to various environments and preferences, enhancing visibility and target identification. These modes include:

- **White Hot:** Hotter objects appear white.
- **Black Hot:** Hotter objects appear black.
- **Red Hot:** Highlights the hottest areas in red.
- **Red Monochrome:** Displays a red-tinted monochrome image.
- **Rainbow:** Uses a spectrum of colors to represent temperature differences.
- **Ultramarine:** A blue-dominant color palette.
- **Violet:** A purple-dominant color palette.
- **Sepia:** Provides a warm, brown-toned image.



Figure 4: Visual representation of the eight different color palette options available on the Pulsar Axion, demonstrating how temperature differences are displayed.

Stream Vision 2 App Support

Enhance your experience by connecting your Axion XG30 to the Stream Vision 2 app, available for iOS and Android devices. The app allows for remote control, live streaming, and recording of thermal footage directly to your smartphone or tablet.

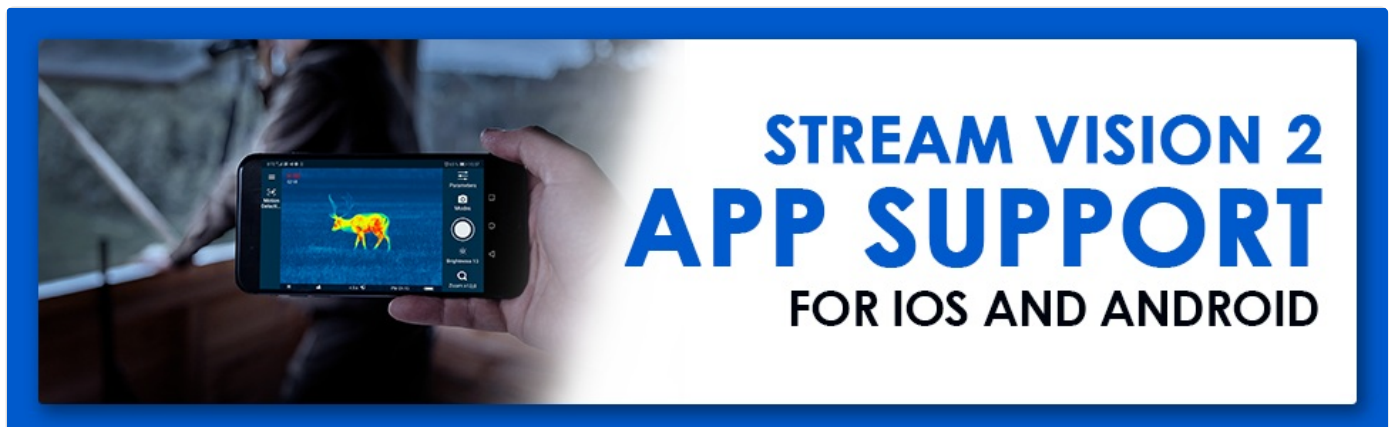


Figure 5: A smartphone screen displaying the Stream Vision 2 app interface, highlighting its support for iOS and Android devices for remote control and media management.

MAINTENANCE

Cleaning and Care

To ensure the longevity and optimal performance of your monocular, regularly clean the lenses with a soft, lint-free cloth designed for optics. Avoid using abrasive materials or harsh chemicals. Keep the device free from dust and debris, and store it in its protective carrying case when not in use.

Storage

Store the monocular in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the battery is partially charged (around 50%) if storing for extended periods to maintain battery health.

TROUBLESHOOTING

Common Issues and Solutions

- **No Power:** Ensure the battery is fully charged and correctly inserted.
- **Blurred Image:** Adjust the diopter on the eyepiece and the objective lens focus ring.
- **Image Freezing/Lagging:** Try restarting the device. If using the app, ensure a stable connection.
- **Device Not Responding:** Perform a hard reset by holding the power button for an extended period (e.g., 10-15 seconds).

For persistent issues, refer to the detailed troubleshooting section in the full manual or contact Pulsar customer support.

SPECIFICATIONS

Feature	Detail
Model Name	Axion
Color	XG30
Sensor	12-Micron Microbolometer, 640x480 Uncooled
Display	640x400 AMOLED HD
Magnification	2 - 16x
Detection Range	1400 yards
Operating Temperature	-13°F to +104°F
Waterproof Rating	IPX7 (Submersion Waterproof Rated)
Battery Type	APS 3 Battery
Material	Magnesium Alloy
Item Weight	0.68 Pounds
Item Dimensions LxWxH	5.7 x 1.6 x 2.7 inches

Understanding NETD

NETD (Noise Equivalent Temperature Difference) is a key measure of sensitivity in thermal imaging devices. It indicates the smallest temperature difference a sensor can detect—lower NETD values mean clearer, more detailed images, especially in low-contrast environments like fog or darkness. This makes NETD essential for evaluating the performance of thermal scopes, monoculars, and cameras.

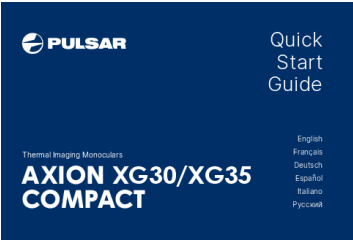
Understanding Pixel Pitch

Pixel pitch (µm) in Pulsar thermal devices refers to the space between pixels on the sensor. Smaller pixel pitch delivers higher image resolution and finer detail, ideal for close-range clarity. Larger pixel pitch gathers more thermal energy, enhancing detection range and sensitivity. It plays a crucial role in thermal image quality and performance.

The Pulsar Axion Compact Thermal Imaging Monocular XG30 comes with a**5 Year Manufacturer Warranty**. For warranty claims, technical support, or any inquiries regarding your device, please contact Pulsar customer service through their official website or the contact information provided in your product packaging.

EXPORT CONTROL NOTICE: This product is controlled for export and in-country transfer under the Export Administration Regulations (EAR). Diversion contrary to U.S. law prohibited.

Documents - Pulsar – XG30



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Quick Start Guide Thermal Imaging Monoculars AXION **XG30/XG35 COMPACT**
English Franais Deutsch Espaoi Italiano EN Attention Axion thermal imaging
monoculars require a license if exported outside your country. Electromagnetic
compatibility. This product complies with the requirements of European ...
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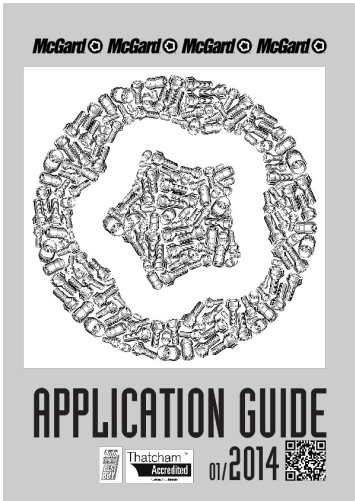
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Handbuch
Axion XQ30 Pro/XG30/XG35 Compact

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Handbuch Axion XQ30 Pro/**XG30**/XG35 Compact Spezifikationen Modell SKU:.
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Pulsar Axion Compact XG30 Specification	
Axion Compact XG30	
Specifications	
Sensor	640x480 (8-12µm BNC 12 - 40 m)
Objective lens	F30/1.2
Magnification, x	2-18 (0.8 mm)
FOV (HxV) degrees / rad 100m	14.6x9.2 (0.8x0.5)
Detection range	1300
Resolution	
Type	uncooled
Resolution, pixels	640x480
Pixel pitch, µm	12
NETD, mK	< 40
Frame rate, Hz	50
Optics	
Objective lens	F30/1.2
Magnification, x	2-18 (0.8 mm)
FOV (HxV) degrees / rad 100m	14.6x9.2 (0.8x0.5)
Display	
Type	AMOLED
Resolution, pixels	640x480
Refresh rate, Hz	
Detection range, m	1300
Video recorder	
Video (HxV) resolution, pixel	640x480
Video (HxV) format	mp4 / jpg
Storage memory, GB	64

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Pulsar Axion Compact **XG30** Specification Specifications Axion Compact **XG30**

Sensor: Objective lens: Magnification, x: FOV HxV degrees / m 100m: Detection range: Sensor Type: Resolution, pixels: Pixel pitch, m: NETD, mK: Frame rate, Hz: Optics Objective lens: Magnification, x: FOV HxV degrees / ...

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Manual
Axion XQ30 Pro/XG30/XG35 Compact

[Pulsar Axion XQ30 Pro/XG30/XG35 Compact Thermal Monocular Manual](#)

User manual for the Pulsar Axion Compact series thermal monoculars, including models XQ30 Pro, XG30, and XG35. This guide covers specifications, features, operation, battery charging, and maintenance.

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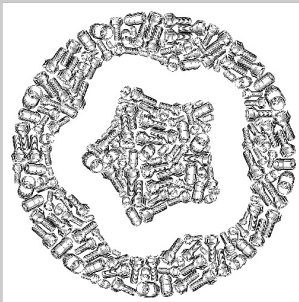
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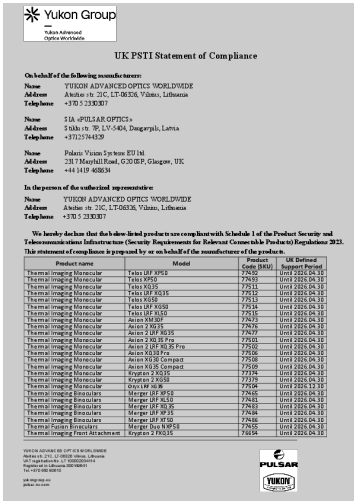
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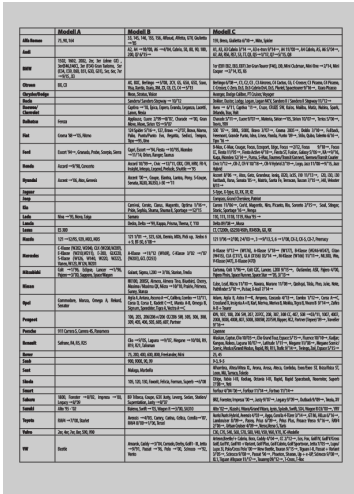
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