

# Axion

## Технические характеристики

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# Axion 2





# Enhanced image processing algorithms



The Axion 2 thermal imaging devices use a new approach to image optimisation depending on the purposes and conditions of observation and provide high-quality rendering of both target objects and background. Three levels of signal amplification in combination with a connected smoothing filter and fine brightness and contrast adjustments give the hunter great opportunities for long-range detection of the animal under different weather and temperature conditions and determining its trophy qualities.





# High-quality reinforced magnesium alloy housing

Axion is designed for constant, often hard use. A magnesium alloy housing is light and strong at the same time. The housing reliably protects the internal components of a thermal imaging device from shocks, drops, moisture, heat or cold. At the same time, a metal housing effectively removes the heat from electronics, minimizes image noise and increases consistency of the device operation during long-term observation.

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24.31

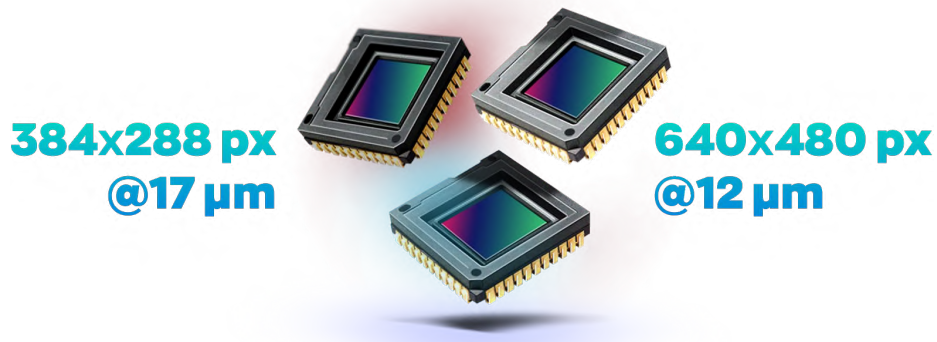


Mg

MAGNESIUM



# Highly-sensitive European-made Lynred sensor



The Axion 2 thermal monoculars are equipped with a European Lynred sensors with a resolution of 384x288 pixels (pixel size 17 μm) / 640x480 pixels (pixel size 12 μm), which qualitatively capture a useful signal under difficult observation conditions, such as rain, fog and high atmospheric humidity at the observation site.



# Fast aperture F35/1.0 lens

Germanium F35/1.0 lens features high infrared transmission in the LWIR range. Due to the high precision manufacturing of the optical elements of the lens, the image generated by the Axion 2 thermal imaging device sensor is distinguished for its clarity and detailing.





# Extended battery life. Up to 11 hours on a single charge

A high-capacity APS5 rechargeable battery provides, depending on model, up to 11 hours of continuous operation of the thermal imaging device on a single charge. The battery is removed from a battery housing and replaced with a new one in seconds. The battery is charged in a special charger or inside the device from a PC, household power system or power bank via USB-C. The same sources are used for external power supply of a thermal imaging device.





# Improved Wi-Fi connectivity with 2.4 / 5 GHz waveband support

In Axion 2 thermal imagers, the standard smartphone connection frequency range via a 2.4 GHz WiFi channel is complemented with an effective 5 GHz range. The 5 GHz connection offers better bandwidth, a faster data transfer rate, noise immunity and improved connection stability, resulting in more productive and easier operation of the thermal imager with a smartphone.

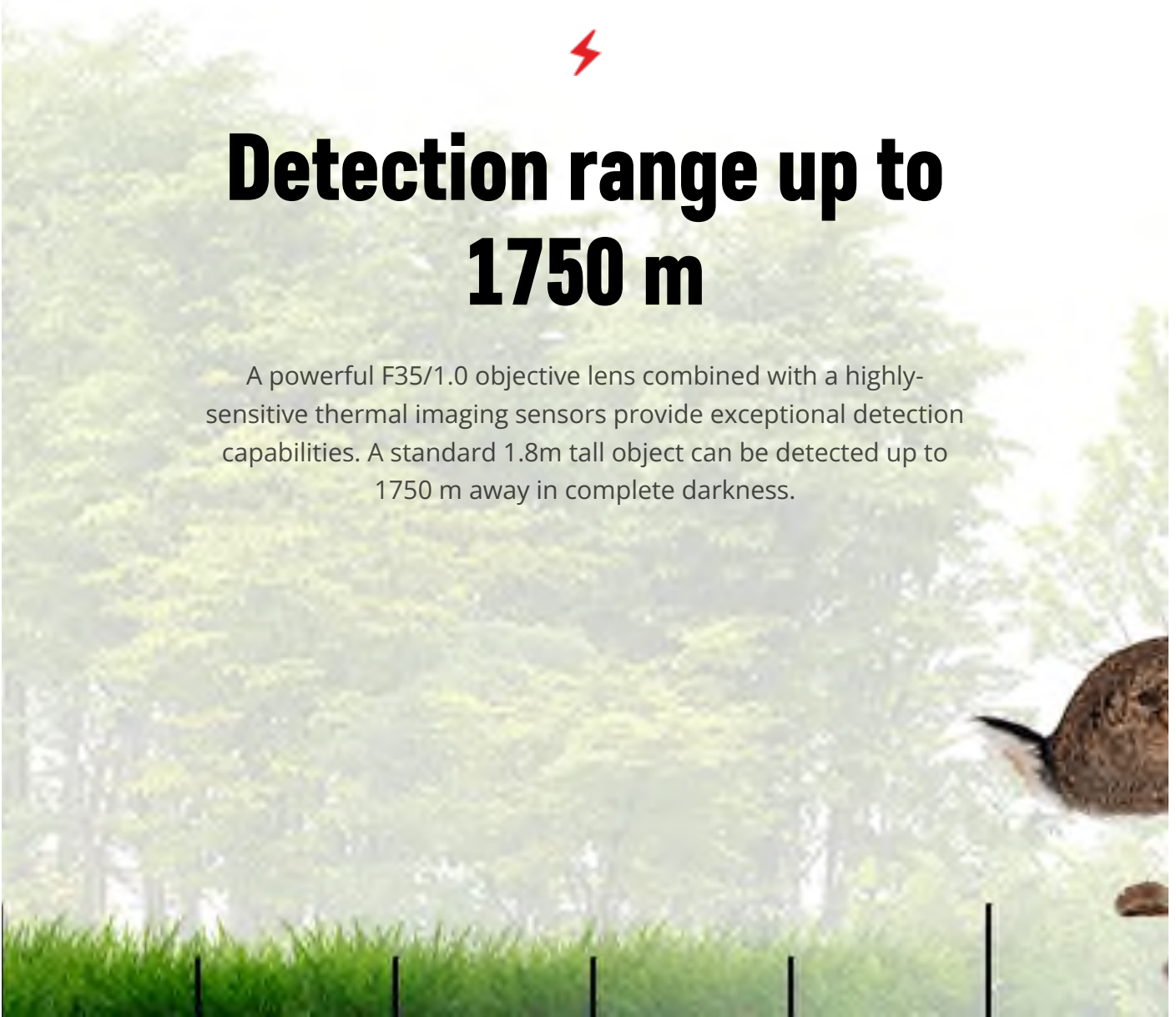






# Detection range up to 1750 m

A powerful F35/1.0 objective lens combined with a highly-sensitive thermal imaging sensors provide exceptional detection capabilities. A standard 1.8m tall object can be detected up to 1750 m away in complete darkness.





# Pocket-sized dimensions and light weight

Axion 2 has a space-saving and pocket-sized design and weighing 300 grams. The device is easy to grip and operate by right-handed and left-handed people due to the symmetrical design and in-line buttons arrangement on the upper panel.



NEW

# AXION 2





## **Variable magnification**

Digital zoom provides improved focus and better overall object recognition at significant distances. The zoom changes either gradually in 2x step or continuously for a truly optimum, customized field of view for specific situation.

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## **Built-in photo and video recorder. Free 16 GB cloud space**

The Axion 2 has a built-in video recorder. The internal memory of the Axion 2 can store hours of video and tens of thousands of photos. One touch of a button is enough to take a photo of an interesting scene or start recording video. The footage is copied to a computer hard drive via a USB-C port. The Axion 2 owner has a free 16 GB disk space for storing photos and videos captured with the device in the Pulsar cloud storage. Simply install the Stream Vision 2 mobile application, log in and connect the device with a smartphone via WiFi.

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## **Distant operation and firmware update from smartphone via Stream Vision 2 App**

Built-in WiFi connects the Axion 2 to Android and iOS smartphones via the Stream Vision 2 mobile application. This opens up a wide range of options including wireless device software updates, real-time image transmission from the device to the smartphone screen, publication on social media of photo and video content captured by the device or transfer to messengers, remote control of digital device functions and access to the latest news from Pulsar. Moreover, registered users receive 16 GB of cloud storage for photos and videos recorded with the device.

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## **Fast start-up**

The Axion 2 features a short turn-on time: the device is fully functional within 5 seconds after pre the ON button. Quick start-up helps save battery power: when hunting, the Axion 2 doesn't need kept ready at all times, simply turn it on when needed.

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## **High-contrast AMOLED Display**

A high-contrast AMOLED display has an improved colour rendering, power saving and quick-resp providing sharp and smooth images observing even under frosty conditions.

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## **A selection of 8 color palettes**

A choice of 8 colour palettes lets the user observe their field of view more effectively, allowing the optimise the unit for specific tasks as well as react to changing observation conditions. White Hot Black Hot and Red Hot are optimal for object detection, Rainbow and Ultramarine help increase chances for recognition & identification. Red Monochrome, Sepia and Violet are most suitable for observation in the night.

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## **IPX7 Fully Waterproof**

IPX7 waterproof-rated for protection from heavy rainfall, snow or other precipitation. The unit is designed to run flawlessly, even after submersion in up to 1 meter of water for up to 30 minutes.

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# Specifications

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**Axion 2 XQ35**



**Axion 2 XG35**

## Main

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Sensor	384x288 pix. @ 17 $\mu$ m	640x480 pix. @ 12 $\mu$ m (NETD <40 mK)
Objective lens	F35/1.0	F35 /1.0
Magnification, x	2 - 8 (x4 zoom)	2.5 - 20
Field of view (HxV), degrees / m@100m	10.7x8 / 18.2	12.5x9.4 / 21.9
Detection range, m	1300	1750

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## Sensor

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Type	uncooled	uncooled
Resolution, pixels	384x288	640x480
Pixel pitch, $\mu$ m	17	12
NETD, mK	<40	<40
Frame rate, Hz	50	50

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## Optics

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Objective lens	F35/1.0	F35 /1.0
Magnification, x	2 - 8 (x4 zoom)	2.5-20
Field of view (HxV), degrees / m @ 100 m	10.7x8 / 18.2	12.5x9.4 / 21.9
Eye relief, mm	14	14

## Display

Type	AMOLED	AMOLED
Resolution, pixels	640x400	1024x768

## Range Performance

Detection range, m	1300	1750
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## Laser Rangefinder

Safety class for laser equipment according to IEC 60825-1:2014	-	-
Wavelength, nm	-	-
Max. measuring range, m	-	-
Measurement accuracy, m	-	-

## Video Recorder

Video / photo resolution, pixel	528x400	1024x768
Video / photo format	.mp4 / .jpg	.mp4 / .jpg
Built-in memory, GB	16	16
Built-in memory capacity	-	-

## Wi-Fi

Wireless Protocol	Wi-Fi	Wi-Fi
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Wireless Standard	IEEE 802.11 b/g/n/ac	IEEE 802.11 b/g/n/ac
Frequency, GHz	2.4 / 5 GHz	2.4 / 5 GHz

## Bluetooth

Wireless Standard	-	-
Frequency, GHz	-	-

## Environmental Characteristics

Degree of protection, IP code (IEC60529)	IPX7	IPX7
Operating temperature range, °C	-25 - +40	-25 - +40

## Connections and Compatibilities

Mount, type	1/4"	1/4"
Remote control	-	-
Supported Application	Stream Vision 2	Stream Vision 2

## Power Supply

Output voltage, V	3.0 - 4.2	3.7
Battery type	APS 5 Li-ion Battery Pack	APS 5 Li-ion Battery Pack
Capacity, mAh	4900	4900
Operating time on battery pack (at t=22°C), h *	11	7
External power supply, V	5 V, 9 V (USB Type-C Power Delivery)	5 V, 9 V (USB Type-C Power Delivery)

## Weight & Size

Body material	Magnesium Alloy	Magnesium Alloy
Dimensions, mm	152x50x74	152x50x74



Weight, kg

0.3

0.3

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## Trade Data

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SKU (Model #)

77478

77476

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Status

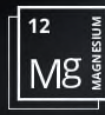
production

production

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# Better quality. Better price.



NEW

# AXION 2 XQ LRF

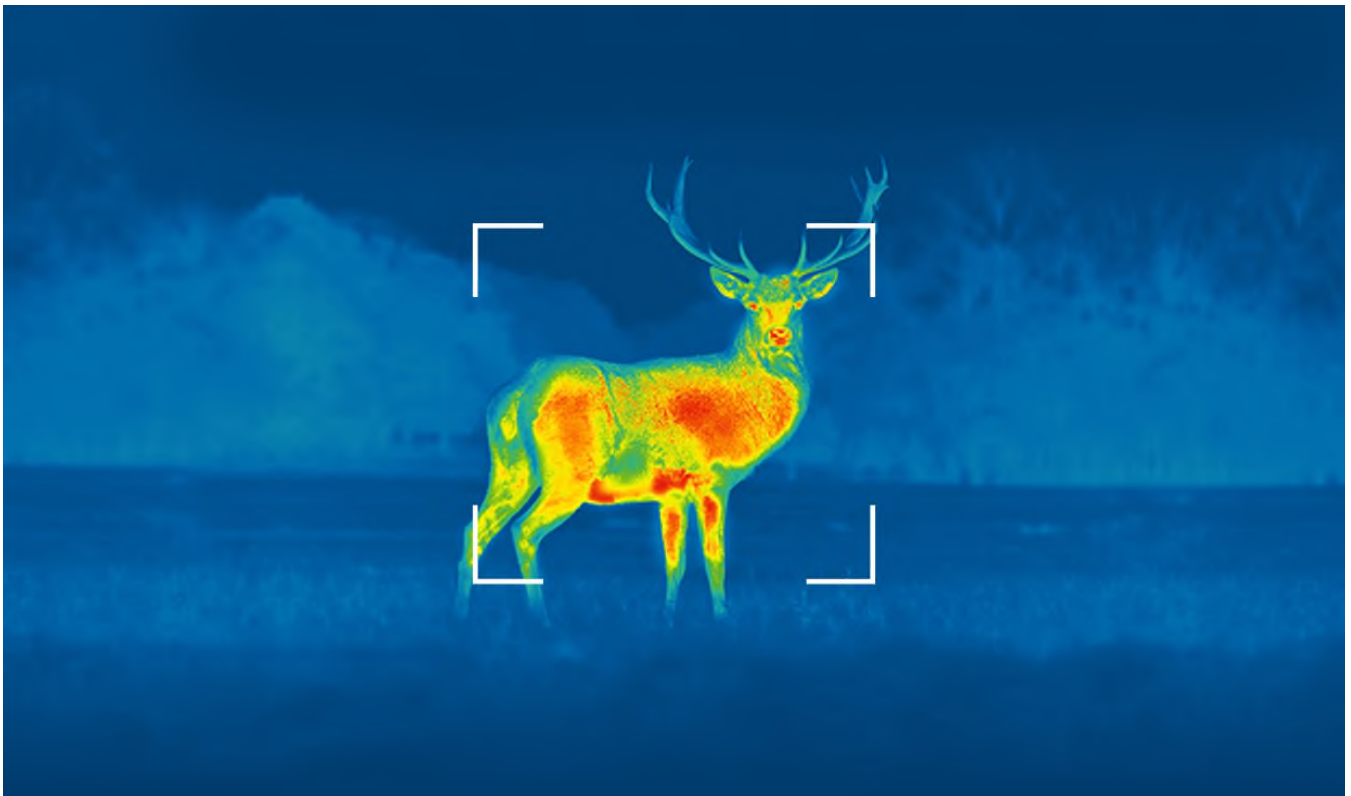




# Enhanced image processing algorithms



The Axion 2 XQ thermal imaging devices use a new approach to image optimisation depending on the purposes and conditions of observation and provide high-quality rendering of both target objects and background. Three levels of signal amplification in combination with a connected smoothing filter and fine brightness and contrast adjustments give the hunter great opportunities for long-range detection of the animal under different weather and temperature conditions and determining its trophy qualities.





# High-quality reinforced magnesium alloy housing

Axion is designed for constant, often hard use. A magnesium alloy housing is light and strong at the same time. The housing reliably protects the internal components of a thermal imaging device from shocks, drops, moisture, heat or cold. At the same time, a metal housing effectively removes the heat from electronics, minimizes image noise and increases consistency of the device operation during long-term observation.



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**Mg**

**MAGNESIUM**



# **Extended battery life. Up to 11 hours on a single charge**

A high-capacity APS5 rechargeable battery provides up to 11 hours of continuous operation of the thermal imaging device on a single charge. The battery is removed from a battery housing and replaced with a new one in seconds. The battery is charged in a special charger or inside the device from a PC, household power system or power bank via USB-C. The same sources are used for external power supply of a thermal imaging device.





# Improved Wi-Fi connectivity with 2.4 / 5 GHz waveband support

In Axion 2 XQ thermal imagers, the standard smartphone connection frequency range via a 2.4 GHz WiFi channel is complemented with an effective 5 GHz range. The 5 GHz connection offers better bandwidth, a faster data transfer rate, noise immunity and improved connection stability, resulting in more productive and easier operation of the thermal imager with a smartphone.



# Fast aperture lens

# F35

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# 1.0

Germanium F35/1.0 lens features high infrared transmission in the LWIR range. Due to the high precision manufacturing of the optical elements of the lens, the image generated by the Axion 2 XQ thermal imaging device sensor is distinguished for its clarity and detailing.







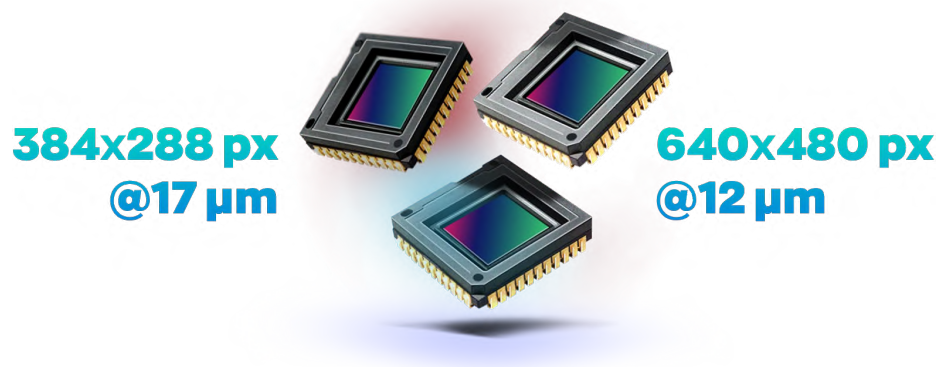
# Long-distance laser rangefinder

< 1000  
m >

Understanding the target distance is an essential factor in making the right decisions. A built-in laser rangefinder with a range of up to 1 kilometre allows you to measure distances in single measurements and continuous scanning modes with an accuracy of  $\pm 1$  meters for quick and error-free assessment of the situation.



# Highly-sensitive European-made Lynred sensor



The Axion 2 XQ35 is equipped with a European Lynred sensor with a resolution of 384x288 pixels (pixel size 17 microns), which qualitatively captures a useful signal under difficult observation conditions, such as rain, fog and high atmospheric humidity at the observation site.



# Built-in photo and video recorder. Free 16 GB cloud space



The Axion 2 XQ has a built-in video recorder. The internal memory of the Axion 2 XQ can store hours of video and tens of thousands of photos. One touch of a button is enough to take a photo of an interesting scene or start recording video. The footage is copied to a computer hard drive via a USB-C port. The Axion 2 XQ owner has a free 16 GB disk space for storing photos and videos captured with the device in the Pulsar cloud storage. Simply install the Stream Vision 2 mobile application, log in and connect the device with a smartphone via WiFi.



# 1300 m detection range

A powerful F35/1.0 objective lens combined with a 384x288@17 $\mu$ m highly-sensitive thermal imaging sensor provides exceptional detection capabilities. A standard 1.8m tall object can be detected up to 1300 m away in complete darkness.





## **Variable magnification from 2x to 8x**

Digital zoom, up to 4x, provides improved focus and better overall object recognition at significant distances. The zoom changes either gradually in 2x step or continuously for a truly optimum, customized field of view for specific situation.

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## **Field of view over 10 degrees**

The Axion 2 XQ thermal imaging devices are suitable for viewing wide areas, observing in motion or for moving objects – the linear field of view is 18.2 m at 100 m distance or 10.7° in angular values. The "Picture in Picture" function activates an additional window at the top of the display, in which the central area of the observed scene is shown magnified 2 or 4 times. This makes it possible to combine the information content of a wide field of view with detailed observation of the selected object.

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## **A selection of 8 color palettes**

A choice of 8 colour palettes lets the user observe their field of view more effectively, allowing them to optimise the unit for specific tasks as well as react to changing observation conditions. White Hot, Black Hot and Red Hot are optimal for object detection, Rainbow and Ultramarine help increase chances for recognition & identification. Red Monochrome, Sepia and Violet are most suitable for long observation in the night.

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# **Distant operation and firmware update from smartphone via Stream Vision 2 App**



Built-in WiFi connects the Axion 2 XQ to Android and iOS smartphones via the Stream Vision 2 mobile application. This opens up a wide range of options including wireless device software updates, real-time image transmission from the device to the smartphone screen, publication on social media of photo and video content captured by the device or transfer to messengers, remote control of digital device functions and access to the latest news from Pulsar. Moreover, registered users receive 16 GB of cloud storage for photos and videos recorded with the device.



## **Pocket-sized dimensions and light weight**

Axion 2 XQ has a space-saving and pocket-sized design and weighing 350 grams. The device is easy to grip and operate by right-handed and left-handed people due to the symmetrical design and in-line buttons arrangement on the upper panel.

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## **High-contrast AMOLED Display**

A high-contrast VGA-resolution AMOLED display has an improved colour rendering, power saving and quick-response, providing sharp and smooth images observing even under frosty conditions.

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## **Fast start-up**

The Axion 2 XQ features a short turn-on time: the device is fully functional within 5 seconds after pressing the ON button. Quick start-up helps save battery power: when hunting, the Axion 2 XQ doesn't need to be kept ready at all times, simply turn it on when needed.

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## **IPX7 Fully Waterproof**

IPX7 waterproof-rated for protection from heavy rainfall, snow or other precipitation. The unit is designed to run flawlessly, even after submersion in up to 1 meter of water for up to 30 minutes.

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# Specifications

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**Axion 2 LRF XQ35**



**Axion 2 LRF XG35**

## Main

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Sensor	384x288 pix. @ 17 $\mu$ m (NETD <40 mK)	640x480 pix. @ 12 $\mu$ m (NETD <40 mK)
Objective lens	F35/1.0	F35/1.0
Magnification, x	2 - 8 (x4 zoom)	2.5 - 20 (x8 zoom)
Field of view (HxV), degrees / m@100m	10.7x8 / 18.2	12.5x9.4 / 21.9x16.4
Detection range, m	1300	1750

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## Sensor

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Type	uncooled	uncooled
Resolution, pixels	384x288	640x480
Pixel pitch, $\mu$ m	17	12
NETD, mK	<40	<40
Frame rate, Hz	50	50

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## Optics

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Objective lens	F35/1.0	F35/1.0
Magnification, x	2 - 8 (x4 zoom)	2.5 - 20
Field of view (HxV), degrees / m @ 100 m	10.7x8 / 18.2	12.5x9.4 / 21.9x16.4
Eye relief, mm	14	14

## Display

Type	AMOLED	AMOLED HD
Resolution, pixels	640x400	1024x768

## Range Performance

Detection range, m	1300	1750
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## Laser Rangefinder

Safety class for laser equipment according to IEC 60825-1:2014	1	1
Wavelength, nm	905	905
Max. measuring range, m	1000	1000
Measurement accuracy, m	± 1	± 1

## Video Recorder

Video / photo resolution, pixel	528x400	1024x768
Video / photo format	.mp4 / .jpg	.mp4 / .jpg
Built-in memory, GB	16	16
Built-in memory capacity	-	-

## Wi-Fi

Wireless Protocol	Wi-Fi	Wi-Fi
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Wireless Standard	IEEE 802.11 b/g/n/ac	IEEE 802.11 b/g/n/ac
Frequency, GHz	2.4 / 5	2.4 / 5

## Bluetooth

Wireless Standard	-	-
Frequency, GHz	-	-

## Environmental Characteristics

Degree of protection, IP code (IEC60529)	IPX7 (waterproof)	IPX7 (waterproof)
Operating temperature range, °C	-25 – +40	-25 – +40

## Connections and Compatibilities

Mount, type	1/4"	1/4"
Remote control	-	-
Supported Application	Stream Vision 2	Stream Vision 2

## Power Supply

Output voltage, V	3.0 – 4.2	3.0 – 4.2
Battery type	APS 5 Li-ion Battery Pack	APS 5 Li-ion Battery Pack
Capacity, mAh	4900	4900
Operating time on battery pack (at t=22°C), h *	11	7
External power supply, V	5 V, 9 V (USB Type-C)	5 V, 9 V (USB Type-C)

## Weight & Size

Body material	Magnesium Alloy	Magnesium alloy
Dimensions, mm	152x74x75	152x74x75

Weight, kg

0.35

0.35

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## Trade Data

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SKU (Model #)

77479

77477

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Status

production

production

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