

# Helion

## Технические характеристики

### По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Россия (495)268-04-70

Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Казахстан (7172)727-132

Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

Thermal imaging scopes

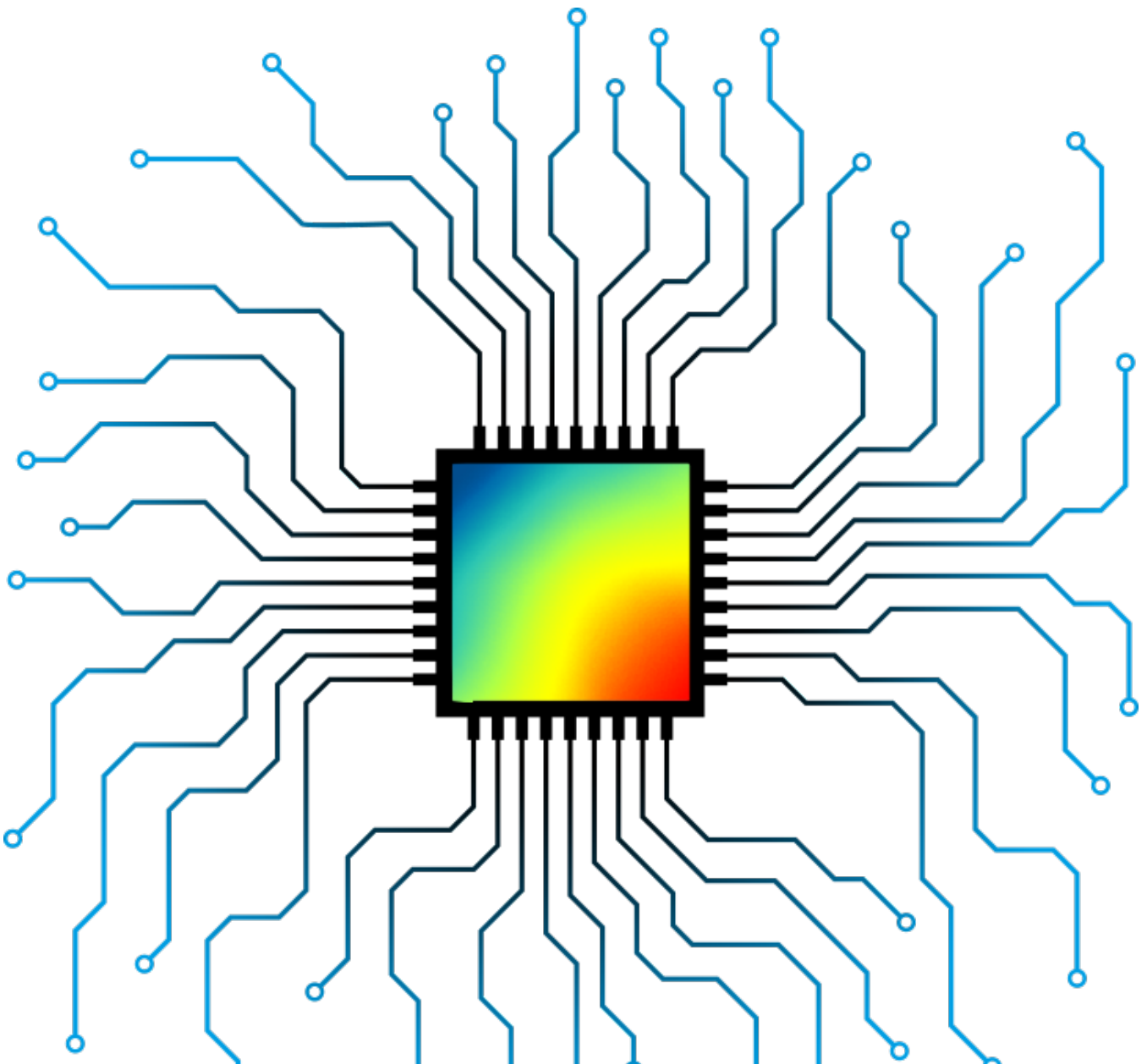
# HELION 2 XQ





# Highly Sensitive Thermal Imaging Sensor

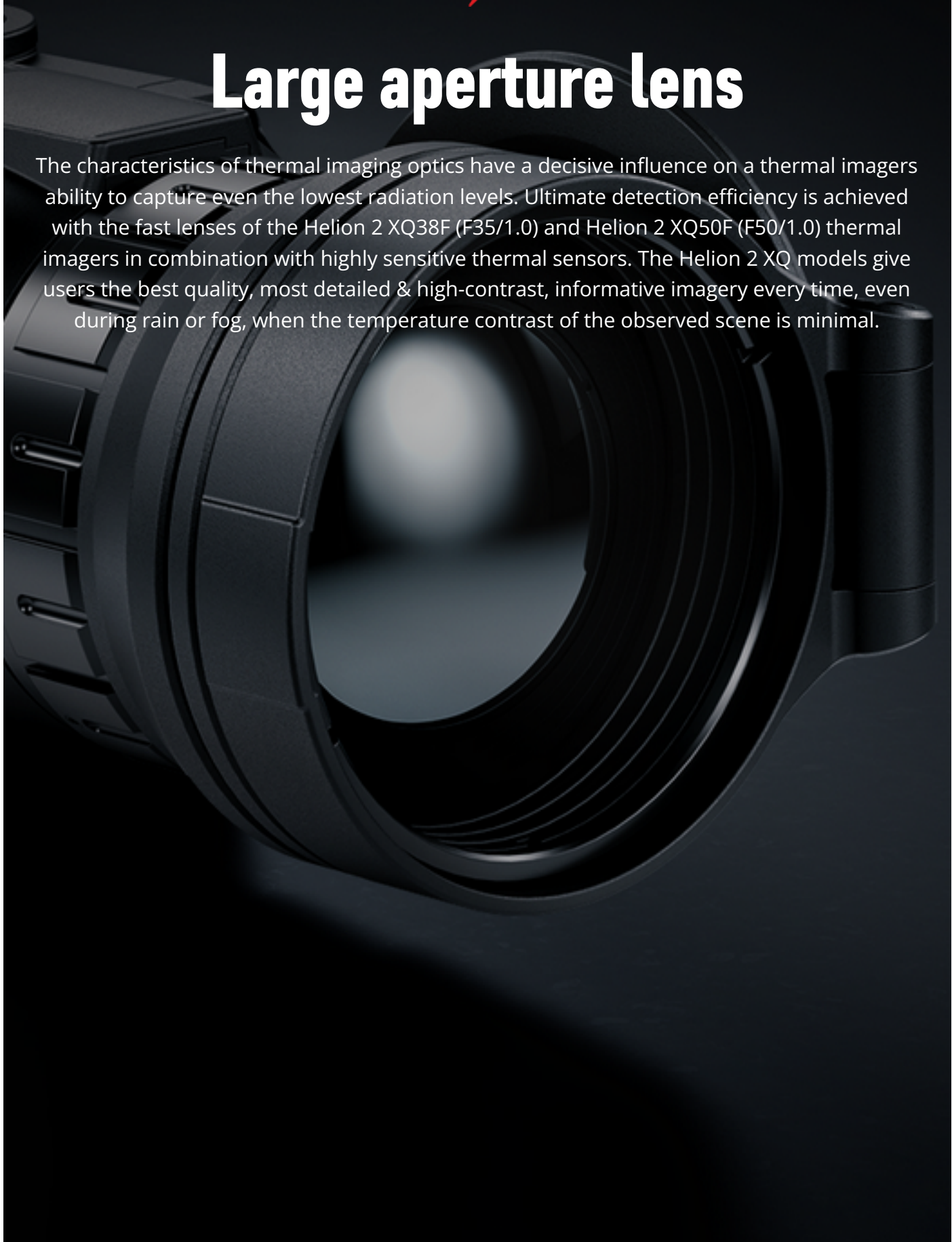
Thermal imaging sensor with NETD 40mK ensures perfect detail recognition even in the hardest weather conditions when thermal contrast is low. The smallest temperature differences will be clearly visible during the rainfall, fog or cold mornings in the most difficult conditions for thermal imager.





# Large aperture lens

The characteristics of thermal imaging optics have a decisive influence on a thermal imager's ability to capture even the lowest radiation levels. Ultimate detection efficiency is achieved with the fast lenses of the Helion 2 XQ38F (F35/1.0) and Helion 2 XQ50F (F50/1.0) thermal imagers in combination with highly sensitive thermal sensors. The Helion 2 XQ models give users the best quality, most detailed & high-contrast, informative imagery every time, even during rain or fog, when the temperature contrast of the observed scene is minimal.





# Full colour HD AMOLED display

The new 1024x768 HD AMOLED display has improved colour rendering, is power saving, offers high contrast imagery and a quick-response, as well as providing clear & smooth images when observing on-the-move or in cold conditions.





# Image Boost Technology

Pulsar's proprietary Image Boost Technology is comprised of software algorithms designed to increase imaging clarity and overall image detail. Image Boost results in a sharper, more detailed field of view and enhanced object identification capabilities.





# Ultra-high-strength magnesium alloy housing

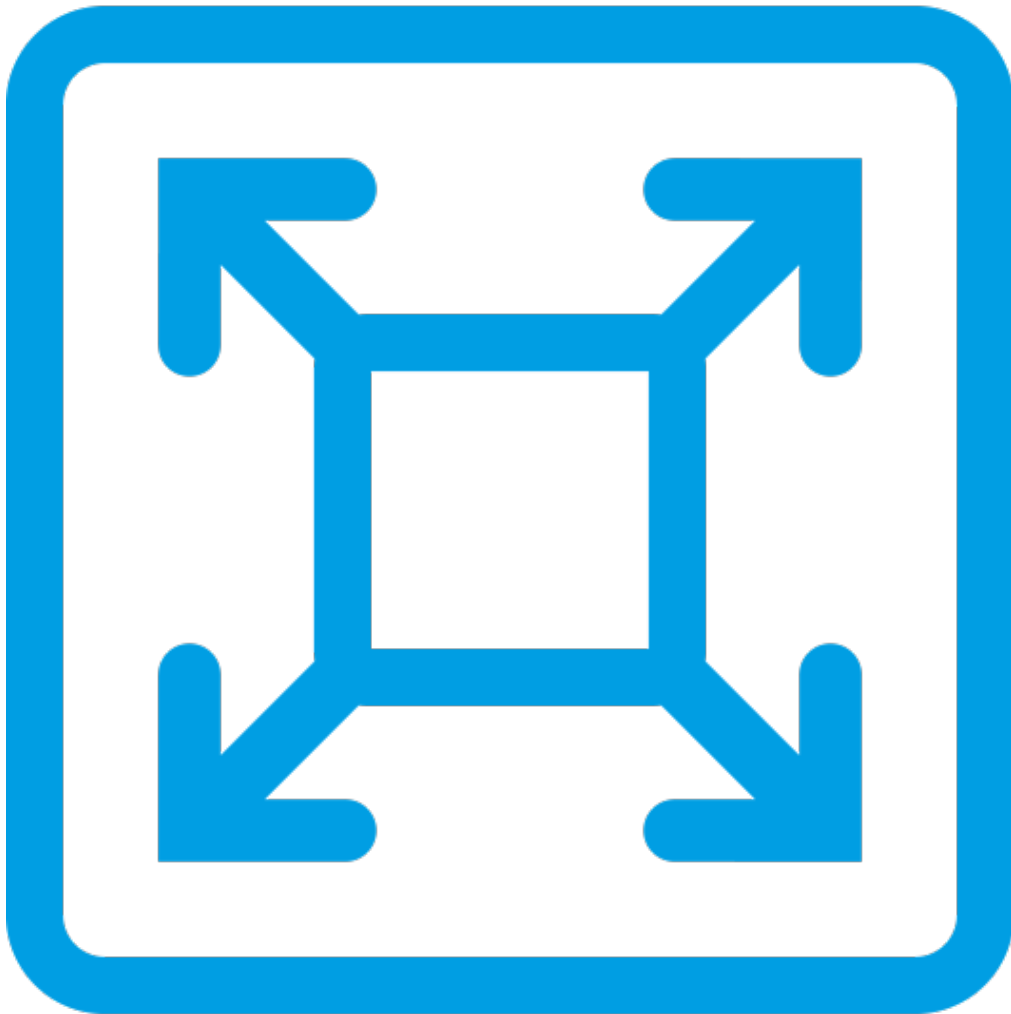
The lightweight magnesium alloy housing stands out due to a high structural strength and resistance to external mechanical and climatic loads. The housing material effectively removes and dissipates the heat generated by the electronics, ensuring the operational stability of the thermal imager and maintains a high quality image during prolonged observation.





# Variable Digital Zoom

Digital zoom, up to 8x depending on model, provides improved focus and better overall object recognition at significant distances.







# Long detection range

Powerful objective lens in combination with professional grade thermal imaging sensor with NETD 40 mK provides exceptional detection capabilities. A standard 1,8m tall object can be detected at a 1800 m (Helion XQ50F) / 1350 m (Helion XQ38F) distance in complete darkness.





# Built-in photo and video recorder

The Built-in video recorder is a great asset when it comes to filming or taking photos of once-in-a-lifetime experiences. One press of the REC button captures footage that can be shared easily with colleagues, friends and family. 16 Gb of internal memory provide many hours of recorded video and tons of photos.



# Wi-Fi. Integration with IOS and Android devices

The built-in WiFi module connects the device with either Android or iOS smartphones using the Stream Vision 2 mobile app. This combination opens up a wide range of options: wireless device software updates, real-time image transmission to the mobile device screen, remote control digital functions and much more. Users registered in the application are provided with cloud storage space for photos and videos taken with a digital or thermal imaging device. An important feature is that the device is still compatible with the previous, first version of the Stream Vision application.



# More features



## Power Supply System B-Pack

Helion includes a progressive autonomous B-Pack power supply consisting of a quick-detach, rechargeable IPS7, 6.4 A-h battery pack designed to deliver over 10 hrs. of operation on maximum mode. Higher-powered IPS14 battery packs, as well as AA battery cases, also are available and provide a perfect off-the-grid power solution.

---



## Stadiametric Rangefinder



Helion has a stadiametric rangefinder performed in the shape of rangefinding reticle which enables distance measuring to observed objects with known height (deer - 1,7 m; boar – 0,7 m; hare – 0,3 m) with a sufficient precision.

---



## High image frequency

Due to the high image frequency (50 Hz) it is comfortable to use thermal camera dynamically (during rapid moving of observer or object of observation).

---



## **Updatable Software**

For initial setup and additional updates, the iOS and Android compatible Stream Vision App ensures the most recent Helion software versions are available.

---



## **External Power Supply**

Helion makes charging from external sources, such as power banks, fast and easy with a micro-USB jack. The convenience of power-bank charging even enhances the ability to power up the Helion in extremely cold weather while also protecting the source from rapid discharge.

---



## **User-friendly interface**

The Helion is designed with ease-of-operation in mind. User feedback has resulted in the most friendly interface to date, complete with an easy-to-read, icon-driven, alpha-numeric status bar at the bottom of the display. Internal menu items and options are also displayed on a contrasting gradient substrate so you can keep an eye on settings without losing sight of your objective.

---



## **Wide range of operation temperatures**

Helion thermal imaging scopes are effective for the use in low temperatures (-25°C) thanks to the frost-resistant AMOLED display employed in the unit (image remains the same as when viewing a positive temperature of the surrounding atmosphere).

---

# Specifications



## Helion 2 XQ38F

### Main

Sensor	384x288 pix. @ 17 $\mu$ m (NETD <40 mK)
Objective lens	F35/1.0
Magnification, x	3.0 - 12
Field of view (HxV), degrees / m@100m	10.7x8.0 / 18.7x14.0
Detection range, m	1350

### Main

Sensor	384x288 pix. @ 17 $\mu$ m (NETD <40 mK)
Objective lens	F35/1.0
Magnification, x	3.0 - 12
Field of view (HxV), degrees / m@100m	10.7x8.0 / 18.7x14.0
Detection range, m	1350

### Sensor

Type	uncooled
Resolution, pixels	384x288
Pixel pitch, $\mu$ m	17

NETD, mK	<40
----------	-----

Frame rate, Hz	50
----------------	----

## Optics

Objective lens	F35/1.0
----------------	---------

Magnification, x	3 – 12
------------------	--------

Field of view (HxV), degrees / m @ 100 m	10.7x8.0 / 18.7x14.0
--	----------------------

Eye relief, mm	15
----------------	----

## Display

Type	AMOLED
------	--------

Resolution, pixels	1024x768
--------------------	----------

## Range Performance

Detection range, m	1350
--------------------	------

## 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	1024x768
---------------------------------	----------

Video / photo format	.mp4 / .jpg
----------------------	-------------

Built-in memory, GB	16
---------------------	----

Built-in memory capacity	5+ hours of video or >100 000 pictures
--------------------------	--

---

## Wi-Fi

---

Wireless Protocol	-
Wireless Standard	802.11 b/g
Frequency, GHz	2.4 GHz

---

## Bluetooth

---

Wireless Standard	-
Frequency, GHz	-

---

## Environmental Characteristics

---

Degree of protection, IP code (IEC60529)	IPX7
Operating temperature range, °C	-25 – +50

---

## Connections and Compatibilities

---

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

---

## Power Supply

---

Output voltage, V	3.0 - 4.2
Battery type	Li-Ion Battery Pack IPS7
Capacity, mAh	6400
Operating time on battery pack (at t=22°C), h *	9
External power supply, V	Micro USB type-C (5 V)

---

## Weight & Size

---

Body material	Magnesium Alloy
---------------	-----------------

---

Dimensions, mm	234.6x55x58
----------------	-------------

---

Weight, kg	0.45
------------	------

---

## Trade Data

---

SKU (Model #)	77396
---------------	-------

---

Status	production
--------	------------

---



**По вопросам продаж и поддержки обращайтесь:**

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Брянск (4832)59-03-52	Краснодар (861)203-40-90	Пенза (8412)22-31-16	Томск (3822)98-41-53
Владивосток (423)249-28-31	Красноярск (391)204-63-61	Пермь (342)205-81-47	Тула (4872)74-02-29
Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	