

Digisight

Технические характеристики

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Digital Riflescopes with integrated laser rangefinder

DIGISIGHT ULTRA LRF





Integrated Laser Rangefinder

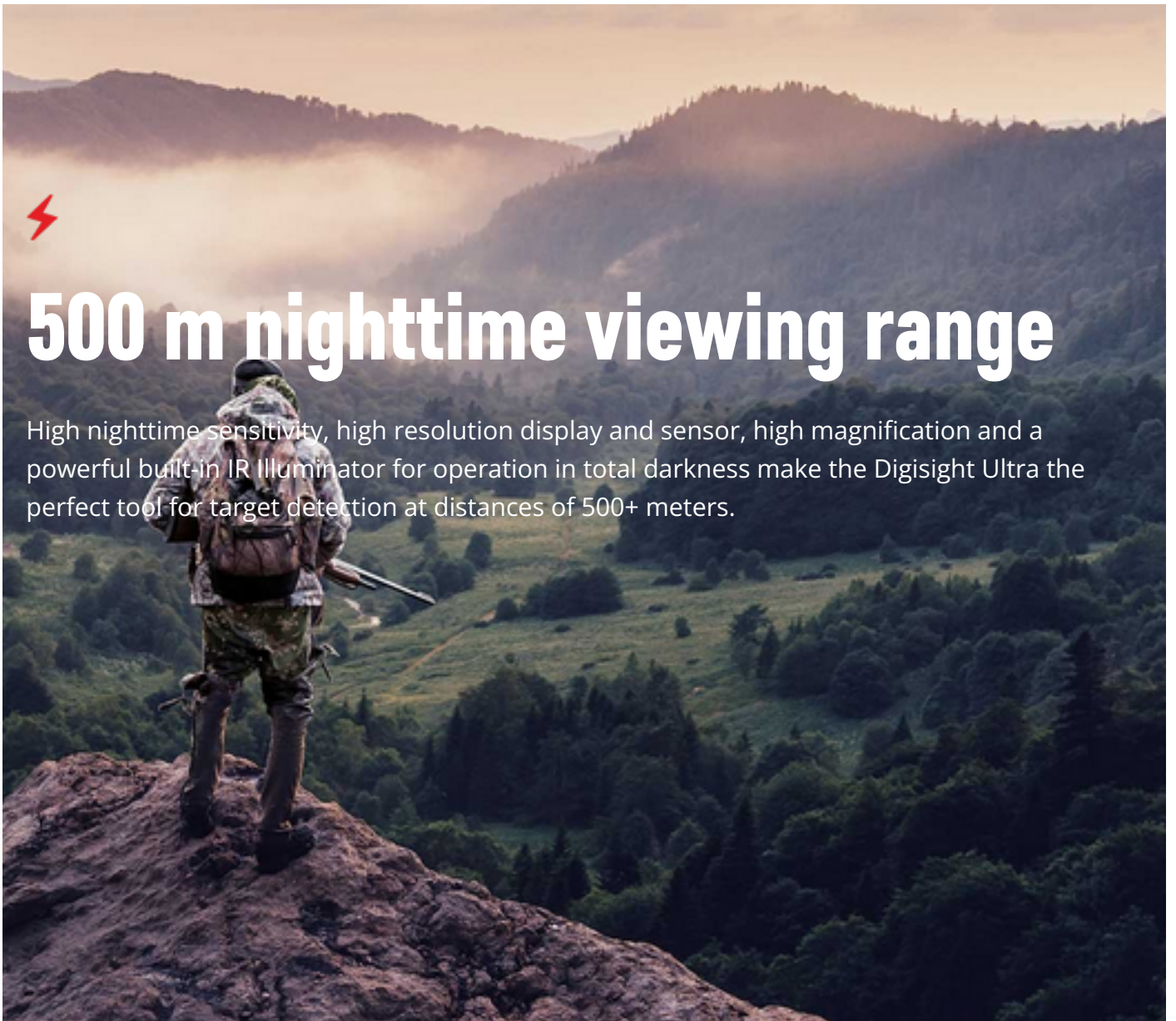
Extra precise shooting requires an exact knowing of distance. Integrated laser rangefinder allows to measure distance in single measuring mode and in scanning mode with precision up to ± 1 meter (yard). In the conditions of changeable landscape, when shooting from high stands it is recommended to use THD (True Horizontal Distance) measuring mode – in this mode rangefinder, taking into account angle of shooter's elevation relative to a target (AoE; its value is also displayed on the screen) calculates true horizontal distance to an object.





500 m nighttime viewing range

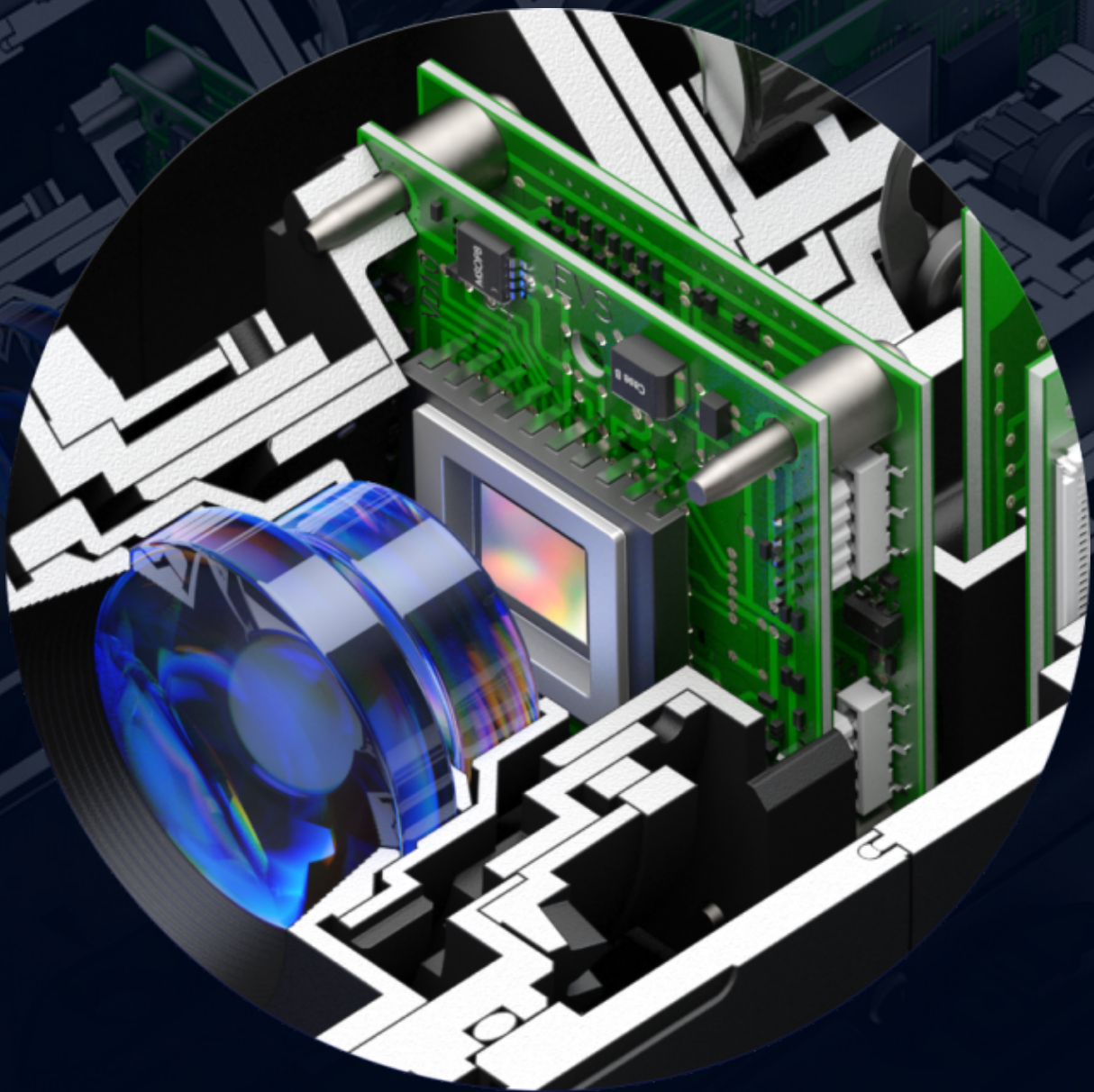
High nighttime sensitivity, high resolution display and sensor, high magnification and a powerful built-in IR illuminator for operation in total darkness make the Digisight Ultra the perfect tool for target detection at distances of 500+ meters.





HD-sensor 1280x720

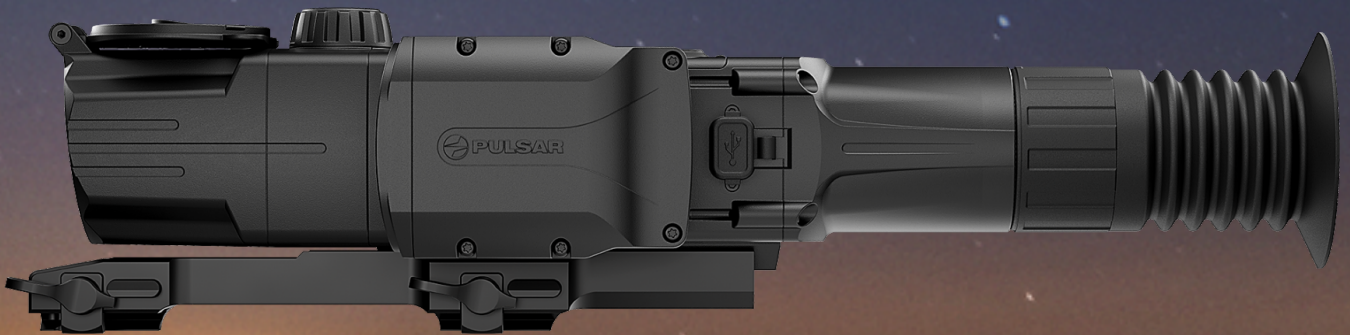
The highly sensitive CMOS sensor featuring 1280x720 HD resolution delivers a high definition image with precise detail rendering.





Enhanced nighttime sensitivity

The Digisight Ultra utilizes proprietary software, cutting-edge electronic components and signal-processing algorithms to deliver one of the industry's highest values of sensitivity in infrared spectrum (nighttime sensitivity). The result is a device offering flawless passive-mode performance in deep twilight, even night, without switching on IR illumination.





Shockproof magnesium alloy housing

Rugged and light-weight magnesium alloy housing is designed to withstand recoils of high caliber rifles. Increased structural rigidity reduces vibrations during the shot and leads to enhanced ballistics while properties of magnesium alloy help to ensure better heat dissipation.



"Picture-in-Picture" mode

"Picture-in-Picture" mode allows the user to add an extra frame to the display. Sized only 1/10 of the total display's, the frame shows enlarged image of the target and reticle. This allows the user to see both: enlarged image of the aiming area and the full field of view.



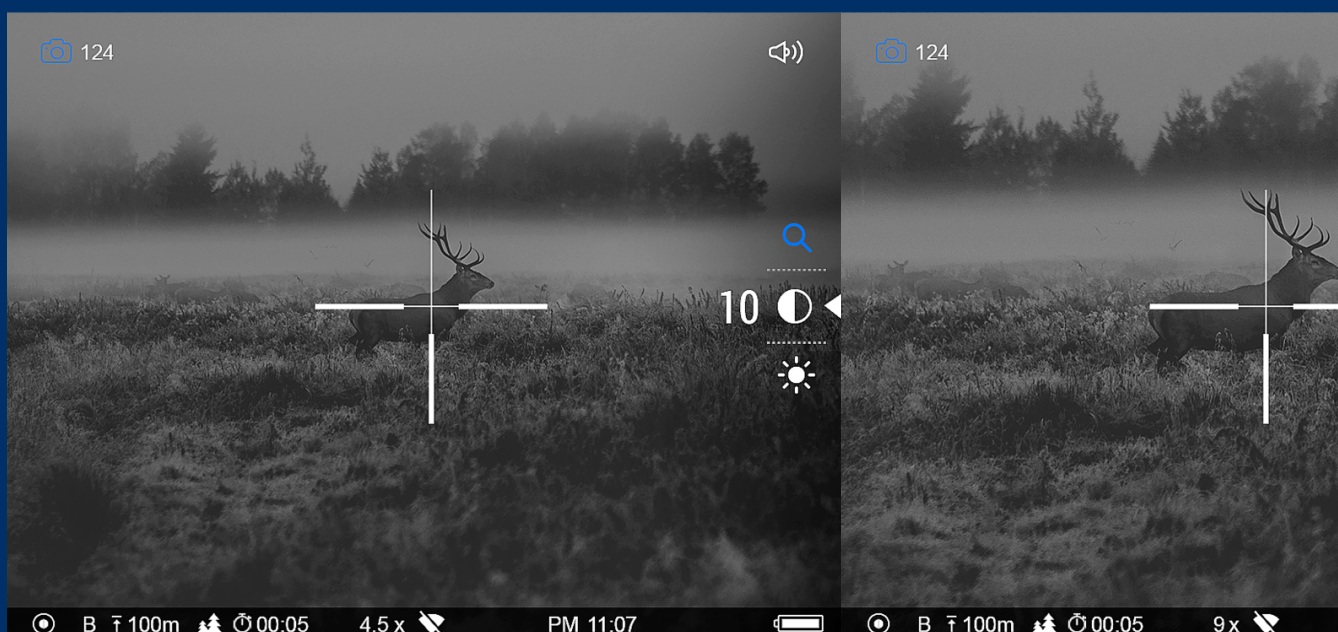


Variable magnification from 4.5x to 18x

The Digsight Ultra features both – optical magnification and 4x digital zoom ranging from 4.5x to 18x. The zoom changes in 2x steps or continuously for a truly optimum, customized field of view.

4.5x

9x





Unique B-pack power system

Digisight Ultra LRF includes a progressive autonomous B-Pack power supply consisting of a quick-detach, rechargeable IPS7A, 6.4A-h battery pack designed to deliver over 6 hrs. of operation.





Fully waterproof IPX7

IPX7 waterproof-rated protection ensures the Digisight Ultra performs perfectly in wet weather, even during intense rain, snowfall and submersion in 1 m of water for up to 30 min. (IEC 60529).





Integrated video recorder

The Digisight Ultra riflescopes are equipped with a recorder which enables video shooting and image capturing at the time of observation. Video and photo files saved in the internal memory can be transferred to a PC/ laptop or mobile device via wired or Wi-Fi connection.



Wide-angle eyepiece

The field of view of the complex wide-angle six-lens eyepiece, employed in the 400-series features 20% increase compared to the previous Digisight Ultra model. Combined with the HD quality AMOLED display, the eyepiece delivers a rich and deep image perception.



Updatable software

A smartphone, free mobile application Stream Vision 2 and Internet access is all one needs to check updates and to install new firmware. This allows a hunter to receive new features and fixes for a riflescope he already owns.





High caliber recoil resistance: 12 gauge., 9.3x64, .375H&H

The Digsight Ultra riflescopes feature high shock resistance and can be used with rifled hunting weapon for such cartridges as 9.3x64, .30-06, .300, .375. etc, and with smooth-bore and airsoft weapon.



More Features



Scalable ballistic reticles

Ballistic reticles are scaled proportionally to riflescope's magnification changes, similar to the reticles placed in the first focal plane of optical sights.

Angular dimensions of reticles' parts remain unchanged at all magnifications, which allows quick measuring of distance and adjusting when shooting at various ranges.



10 reticle shapes in 6 color modes

The reticle is electronic and is always in the same plane with the target. The Digisight has reticles of ten various shapes and functions (direct shot type, ballistic, scalable and regular), all presented in six colors.



Accurate Zoom Zeroing

The user can zero the riflescope either at the basic magnification or at a zoom, with the click value decreasing as the zoom value increases. At the maximum magnification reticle step is less than 0.1 MOA. Aiming point is stable in the entire range of magnifications.



Increased reticle adjustment range (2 m at 100 m range)

Reticle's vertical and horizontal travel range is two meters at 100 m – on average 25% more than in previous Pulsar models. The increased reticle travel range allows zeroing at close and far distances and installing the riflescope on rifles using cartridges with steep ballistic

trajectory without changing mounts and rails.



5 individual shooting profiles / 50 distances

Zeroing settings are saved in a shooting profile. The Digisight Ultra N400th LRF riflescopes allow t user to create up to five shooting profiles for various rifles and cartridges. Each profile can hold u 10 zeroing distances.



Instant start-up

Digisight Ultra LRF starts up within three seconds after ON button is pressed.



Weaver rail for external IR illuminators

The short Weaver rail on the Digisight Ultra LRF housing is used to mount other similar external IR illuminator on the sight.



Software sensitivity enhancement algorithm SumLight

SumLight function increases sensor sensitivity, which allows passive observation (with IR off) in lo light at night. The software automatically activates algorithms (such as summing adjacent pixel sig frame addition), thus increasing sensitivity while preserving sufficient image quality.



Powerful long-range IR Illuminator

The Digisight Ultra N450 and N455 LRF riflescopes are supplied with a new detachable high power illuminators (850 nm and 940 nm respectively) featuring precise setting of spot position in the field. Long-range 850 nm IR provides effective observation of remote objects; the 940 nm model operates in the invisible range. Three adjustable IR power levels help choose preferred effective range and illuminate an object observed.



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, image transmission to the mobile device screen, remote control digital functions and much more. Registered in the application are provided with cloud storage space for photos and videos taken with the thermal imaging device. An important feature is that the device is still compatible with the previous version of the Stream Vision application.



Extreme Operating Temperatures (-25 ÷ +50°C)

Digisight Ultra riflescopes are effective in use at low temperatures (down to -25 °C). The frost-resistant AMOLED display features quick response rate and ensures a crisp image when viewing fast moving objects.



Side incline and elevation angle sensor

A built-in accelerometer/gyroscope improves accuracy by precisely identifying cant and angles greater than 70°. An arrow indicates the direction and degree of lateral tilting. Increased angles are shown with arrows. Moreover, the riflescope can be set to auto shutdown when resting in a non-shooting position. Auto shutdown operation may be disabled when the vertical angle is greater than 70° or horizontal angle is greater than 70°.



Mounts

Digisight Ultra LRF riflescopes are compatible with the following rifle mounts:

- Weaver U Mount
 - Weaver USQD Mount
 - Weaver LQD Mount
 - Weaver Mount
 - Weaver QD112 Mount
 - Weaver SQD Mount
 - Side Mount
 - CZ550 Mount
 - Los/ Dovetail Mount
 - MAK Adapter
 - Prism 14/200 Mount
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Specifications



DS Ultra N450 LRF

Main

Sensor	CMOS 1280x720
Magnification, x	4.5 - 18 (x4 zoom)
IR Illuminator wavelength, nm	850 (long-range)
Detection range, m	550

Main

Sensor	CMOS 1280x720
Magnification, x	4.5 - 18 (x4 zoom)
IR Illuminator wavelength, nm	850 (long-range)
IR Optical power, mW	-
Detection range, m	550

Sensor

Type	CMOS
Resolution, pixels	1280x720

Optics

Objective lens	F50/1.2
Magnification, x	4.5 – 18
Field of view (HxV), degrees / m @ 100 m	6.2x4.7 / 10.9x8.2
Eye relief, mm	50

Display

Type	AMOLED
Resolution, pixels	1024x768

Infrared Illuminator

Model	-
Emitter	LED
IR wavelength, nm	850 (long-range)
IR Optical power, mW	-
IR spot position adjustment	-

Range Performance

Detection range, m	550
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Laser Rangefinder

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

Reticle

Click value, H/V, mm at 100 m	10
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Click range, H/V, mm at 100 m	2000 / 2000
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Number of preloaded reticles	10+
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Video Recorder

Video / photo resolution, pixel	1024x768
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Video / photo format	.mp4 / .jpg
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Built-in memory, GB	16
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Wi-Fi

Wireless Protocol	-
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Wireless Standard	802,11 b/g
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Frequency, GHz	2.4 GHz
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Environmental Characteristics

Degree of protection, IP code (IEC60529)	IPX7
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Operating temperature range, °C	-25 °C ... +50 °C
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Connections and Compatibilities

Max. recoil power on rifled weapon (Eo), Joules	6000
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Shock resistance on the smooth-bore rifles, caliber	12
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Compatible mounts	Side Mount, CZ550 Mount, Los/Dovetail Mount, MAK Adapter, Prism 14/200, Weaver QD112, Weaver U, Weaver USQD, Weaver LQD, Weaver SQD, Weaver
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Supported Application	Stream Vision 1, Stream Vision 2
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Power Supply

Output voltage, V	3.0 - 4.2
Battery type	Li-Ion Battery Pack IPS 7A
Capacity, mAh	6400
Operating time on battery pack (at t=22°C), h *	-
External power supply, V	5V

Weight & Size

Body material	-
Dimensions, mm	370x142x74
Weight, kg	1.1

Trade Data

SKU (Model #)	76627
Status	-

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