Dear Customers,
Dear Partners,

Opticoelectron Group JSCo has more than 45 years long experience in production of optomechanical and optoelectronic devices and systems for military purposes.

Our focus has always been on providing you with high-quality products and solutions, and we work hard to ensure that our products and services have the features and functionality that best contribute to your success.

As always, customer service is our top priority. We appreciate your loyalty and look forward to serving you even better in the years to come.

Sincerely,

dipl.eng. Ivan Garchev

dipl.eng. Nikodim Kazandzhiev

Executive Managers of Opticoelectron Group JSCo
Optoelectron Group JSCo is one of the most advanced companies specialized in optomechanical, optoelectronic and laser devices and systems for defence and security, medicine, device-building, machine-building. The company has more than 45 years old history and traditions, and it is considered as a leader in the production of optical devices in Bulgaria and on the international market.

It has a closed cycle of production starting from research and development going through production process to marketing, promoting and trading finished products. The company head office and its premises are situated in the town of Panagyursht, which is 90 km south-east of capital city Sofia and 80 km north-west of Plovdiv (the second largest city in Bulgaria). It is located in an Industrial Park of 260,000 sq.m. where 108,000 sq.m. of the total area are production plots.

Over 97% of total production goes on export to EU countries, North America and the Middle East. Optoelectron Group JSC is ISO 9001, ISO 14001, ISO 18001 and ISO 27001 certified. Our NATO Commercial and Governmental Entity code (NCAGE) is 000DU. Optoelectron Group JSC has obtained a Certificate for Registry in the field of international relations “NATO-SECRET” and a Certificate for access to operate with state classified information. The company also has a statute of supplier for US Government - DUNS Registration.

Key defence products in our portfolio are as follows: anti-aircraft and ground artillery sights for firing in daytime and in nighttime; day, night and thermal optical sights, SWIR lenses, laser range finders, laser target designators, optical systems for armoured vehicles, video observation and surveillance systems.

**HI-TECH INDUSTRIAL PARK “OPTICOELECTRON”**

- Total site area: 260,000 m²
- Total building footprint: 50,100 m²
- Total building area: 108,500 m²
Description:
Designed to fit your specific night vision needs. The brightest and sharpest images available due to a High Resolution Super Gen, 3rd Generation or 4G type Image Intensifier Tube.

Technical characteristics:
- **Magnification:** 1 x
- **F#:** 1.2
- **Focal length:** 50 mm
- **Adjustment range of the focal:** 1 m to infinity
- **Field of view:** ≥ 19.85°
- **Diopter adjustment:** -2 to +2 dptr
- **Eye relief:** 24 mm
- **Power supply:** 1pc. Battery AA
- **Operation time with a 1.5V battery:** >12 h
- **Operation time with a 3.6V battery:** >50 h
- **Operating temperature:** *-40°C to +50°C
- **Storing temperature:** -40°C to +60°C
- **Weight without battery:** 0.570 kg
- **Dimensions (LxWxH):** 180 x 55 x 74 mm
- **Mounting interface:** Picatinny (MIL STD 1913)

*Note: The low operating temperature depends on the power supply source*
MNV-K
Night Vision Monocular

Description:
Night Vision Monoculars (NVM) with built-in 2+ SuperGen or 3 Gen Image Intensifier Tube enable to conduct visual observation at night time, night land navigation, night sea navigation in starlight viewing conditions.

Night Vision Monoculars are used during military and special operations, night patrolling and site protection, night air and sea navigation; at rescue and emergency operations; for night vision filming and photography.

Night Vision Monoculars can be also used for cross-country navigation with no white light illumination at night time.
- Hand-held, head-mounted or weapon-mounted through special adapter
- Power supply module (1 battery “AA”) provides continuous “IR-on” monocular operation for 40 hours.
- “Low battery” indication

Technical characteristics:
Magnification: 1x
Adjustment range of the focal: 0.25m to infinity
Field of view: 40 ±2°
Diopter adjustment: -6 to +5
Output pupil diameterM: 20mm
Eye relief: 25mm
Power supply: 1.5V or 3V (1pc. battery AA or battery CR 123)
Operational time with a 1.5 V battery: 20 h
Operational time with a 3V battery: 40 h
Operating temperature: -50°C to +50°C
Storing temperature: -50°C to +60°C
Weight without battery: 0.30kg
Dimensions (LxWxH): 118 x 46 x 69 mm

Accessories:
3x and 5x objective lenses
3x afocal attachment lens
Weapon mount (picatinny MIL STD 1913)
Helmet mount
NVS bridge
NVS flip – flop mount
Bright light protection
Adapters for photo and video cameras
Adapters for applying PVS type head-strap mask
Demist shield
Sacrificial window
**NOS 4B**

**Night Vision Scope For SPG-9**

NSN 1240-50-001-2541

**Description:**

Designed to enable aiming with SPG-9 at night. Equipped with ballistic and long-range reticle.

**Technical characteristics:**

- **Magnification:** 4 x
- **F#:** 1.41
- **Field of view:** 11°
- **Eye relief:** 30 mm
- **Exit pupil diameter:** 4.5
- **Objective focus:** From 25 mm to infinity
- **Dioptr adjustment:** Fixed, minus 0.75 dptr
- **Power supply source:** 1 pc. Battery AA
- **Operation time with a 1.5V battery:** >12 h
- **Operation time with a 3.6V battery:** >50 h
- **Image Intensifier Tube:** 18 mm, All type 18 mm, Auto Gating
- **Operating temperature:** *-40°C to +50°C
- **Storing temperature:** -40°C to +60°C
- **Weight:** 1.200 kg (without battery)
- **Dimensions (LxWxH):** 232 x 78 x 96 mm (with eyecup)
- **Mounting interface:** Picatinny (MIL STD 1913)

**Ballistic and long-range reticle:**

- **“KYM” or “OCK”**
- **Reticule illumination, LED:** 610 nm
- **Adjustment range:** ± 1° in elevation and direction
- **Adjustment accuracy:** 1 MOA, with fixation

*Note: The low operating temperature depends on the power supply source*
Description:
Designed to facilitate aiming at night when using various weapons such as assault rifles, snipers, hunting and sport rifles. Equipped with ballistic and long-range reticle.

Technical characteristics:
Magnification: 4 x
Objective focus: from 25 m to infinity
 Diopter adjustment: from +2 to -6 dptr
Power supply source: 1 pc Battery AA
Operational time with a 1.5 V battery: >12 h
Operational time with a 3.6 V battery: >50 h
Image Intensifier Tube 18 mm: All type 18 mm, Auto Gating
Effective focal length: 90 mm
 F#: 1.61
Field of view: 11°
Eye relief: 30 mm
Exit pupil diameter: 4.5 mm
Operating temperature: *-40°C to +50°C
Storing temperature: -40°C to +60°C
Weight with mounting adaptor: ≤ 940 g (without battery)
Dimensions (LxWxH): 236 x 75 x 102 mm (without eyecup)
Mounting interface: Picatinny (MIL STD 1913)

Ballistic and long-range reticle
Reticle illumination, LED: 610 nm
Adjustment range: ± 1° in elevation and direction
Adjustment accuracy: 1MOA, with fixation

* Note: The low operating temperature depends on the power supply source.
Description:
Designed to facilitate aiming at night when using various weapons such as assault rifles, snipers, hunting and sport rifles. Equipped with ballistic and long-range reticle.

Technical characteristics:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnification</td>
<td>6 x</td>
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<tr>
<td>Objective focus</td>
<td>from 25 m to infinity</td>
</tr>
<tr>
<td>Diopter adjustment</td>
<td>from -2 to +6 dptr</td>
</tr>
<tr>
<td>Power supply source</td>
<td>1 pc Battery AA</td>
</tr>
<tr>
<td>Operational time with a 1.5 V battery</td>
<td>&gt;12 h</td>
</tr>
<tr>
<td>Operational time with a 3.6 V battery</td>
<td>&gt;50 h</td>
</tr>
<tr>
<td>Image Intensifier Tube 18 mm</td>
<td>All type 18 mm, Auto Gating</td>
</tr>
<tr>
<td>Effective focal length</td>
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<td>F#:</td>
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<td>Field of view</td>
<td>7°</td>
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<tr>
<td>Eye relief</td>
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<td>Exit pupil diameter</td>
<td>4.5 mm</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>*-40°C to +50°C</td>
</tr>
<tr>
<td>Storing temperature</td>
<td>-40°C to +60°C</td>
</tr>
<tr>
<td>Weight with mounting adaptor</td>
<td>≤ 1700 g (without battery)</td>
</tr>
<tr>
<td>Dimensions (LxWxH):</td>
<td>265 x 100 x 124 mm (with eyecup)</td>
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<tr>
<td>Mounting interface</td>
<td>Picatinny (MIL STD 1913)</td>
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<tr>
<td><strong>Ballistic and long-range reticle</strong></td>
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<tr>
<td>Reticle illumination, LED</td>
<td>610 nm</td>
</tr>
<tr>
<td>Adjustment range</td>
<td>± 1° in elevation and direction</td>
</tr>
<tr>
<td>Adjustment accuracy</td>
<td>1MOA, with fixation</td>
</tr>
</tbody>
</table>

*Note: The low operating temperature depends on the power supply source*
Description:
The ONEAG are self-contained, helmet-mounted, passive night vision goggles that enable pilots to fly in terrain flight modes at night. The system amplifies ambient light from natural sources such as the Moon, the stars and the sky glow, so that the observed scene becomes clearly visible to the operator.

The ONEAG has the following convenient features: powered by batteries and on-board power source; low-battery indicators on the helmet mount and power pack lights, if the battery level is low; eye span; vertical distance; tilt; eye relief; dioptr adjustment.

Technical characteristics:
Operational adjustment limits
Item: limits
Vertical: 18 mm total travel
Fore and aft: 27 mm total travel
Eye span: 51 mm to 72 mm
Tilt: 10° total travel
Diopter adjustment: from -5 to +5 dptr
Objective focus: from 25 cm to ∞

Electrical data
Voltage/battery power supply: 2x2 pcs. Batteries AA
Voltage/on-board power supply: 9 + 32 VDC
Current/ battery power supply: 100 mA, maximum
Current/ board power supply: 30 mA, maximum
Battery life at 20°C alkaline: 20 hours (minimum/one container)

Optical data
Magnification: Unity (1x)
Field of view: 42°

Environmental Data
Operating temperature: *-40°C to + 50°C
Storing temperature: -40°C to + 60°C
Encapsulation rating: IP65
Illumination required: Overcast starlight to moonlight

Mechanical data
Goggles breakdown force: 10 G
Goggles weight: 0.660 kg
Mount assembly weight: 0.180 kg
Power pack weight (without batteries): 0.380 kg

*Note: The low operating temperature depends on the power supply source.
EVERY NIGHT IS A NEW DAY!

NIRECON

Description:
The O.E. NIRECON Night Vision Goggles are among the smallest and lightest night vision goggles ever produced. Their unique design makes them comfortable and easy to use, whilst retaining a high performance night vision capability.

Technical characteristics:
- Image intensifier tube: Gen 2+, Gen 3, 4G
- Magnification: 1 x, 40°
- Field of view: 26 mm
- Objective: 1
- F#: 0.2 m to infinity
- Diopter adjustment: +2 to -6 dptr
- Eye relief distance: > 20 mm
- Interpupillary adjustment: 57 - 75 mm
- Exit pupil diameter: 9 mm
- Battery: 2 pcs. Alkaline/Lithium Batteries 1.5V AA
- Power supply: from 2V to 3.5V
- Operation time: up to 80 h at 20°C
- IR source: up to 40 h at 20°C
- Relative humidity: 95% at 35°C
- Encapsulation rating: IP 67
- Operating temperature: -40°C to +50°C
- Storing temperature: -40°C to +60°C
- Weight without battery: 0.350 kg
- Dimensions (LxWxH) without mask: 160 x 80 x 75 mm

Features:
- Built-in IR illuminator;
- Indication of work of the IR illuminator;
- Low voltage battery indicator;
- Head gear;
- Extremely low weight;
- Color - Matt black;
- Reverse polarity protection for the batteries;
- Automatic brightness control;
- Auto-shutdown function;
- 9 mm exit pupil diameter;
- Fast recovery from bright images;
- Optional afocal lens with 3x or 5x magnification;
- Optional adapter for WILCOX Helmet mount.

* Note: The low operating temperature and operation time depend on the power supply source.
Description:
Pseudobinocular Night Vision Goggles ONV serie with built-in 2+ SuperGen or 3 Gen Image Intensifier Tube enable to conduct visual observation at night time, night land navigation, night sea navigation in starlight viewing conditions. NVG are used during military and special operations, night patrolling and site protection; night air and sea navigation; rescue and emergency operations. It is possible to use Night Vision Goggles for cross-country navigation with no white light illumination at night time.
- Head-mounted or helmet mounted for hands-free operation
- “Low battery” indication
- Weight — 550 grams

Technical characteristics:
Magnification: 1x
Adjustment range of the focal: 0,25m to infinity
Field of view: 40±2°
Diopter adjustment: -6 to +5
Output pupil diameter: 15mm
Eye relief: 15mm
Interpupillary adjustment: 57 - 72 mm
Power supply: 2-3V (2 pcs. AA batteries)
Operational time: ≥80 h
Operating temperature: -50° C to +55° C
Storing temperature: -50° C to +60° C
Weight without battery: 0,500kg
Dimensions (LxWxH): 187 x 132 x 58 mm

Accessories:
3x and 5x objective lenses
3x afocal attachment lens
Adapters for applying PVS type head-strap mask
AUTO switch off when the device is set in a vertical position
Helmet mount
IR momentary switch on button
Bright light protection
Demist shield
Sacrificial window
Description:
The Terecon 35 is designed to facilitate aiming during the day and night periods various weapons such as assault rifles, machine guns, sniper, hunting and sport rifles. The Terecon 35 can be equipped with ballistic and long-range reticle. The sight provides clear and sharp picture of the battlefield regardless of the weather, thereby increasing the operational efficiency and precision of the staff as well as its security.

Technical characteristics:

Detector: Uncooled Microbolometer
Spectral response: 8-14 μm
Detector resolution: 384 x 288 / 640 x 480
Detector pitch: 17 μm
Detector sensitivity: < 50 mK
Frame rate: 30 Hz
Digital zoom: x2, x3, x4
Polarity control: Black hot, White hot, Pallettes
Shutterless NUC: Yes
Detail enhancement: AMOLED 800 x 600 or AMOLED 1024 x 768
Display:

Interface:
Video output: Yes, USB 2.0 over 7-pin connector
Video resolution: Digital Serial LVDS interface
Remote control: 800 x 600
Reticles: Multiplexed over video interface
User defined set of reticles, no reticle mode
Yes
Clip on function: Yes, with 1 px. resolution
Bore sight: Yes, with 1 mil resolution
Local ballistic reticle shift: Black, white, light grey, dark grey, color
Reticule color selection:

Auto-shutdown function: 5 min, 15 min, 30 min (if no motion)
Buttons control: 5 or 6 - buttons/joystick control
Available lens: 35 mm, fixed

Physical parameters
Weight without batteries: 0.610 kg
Dimensions (LxWxH): 170 x 75 x 82 mm
Mounting interface: Picatinny (MIL STD 1913)
Environmental test: MIL 810G

Power
Power source: External, AA Size, batteries
(2.7-.18V), USB, Video interface
Operating time: > 7 h

Image / Video captures
Storage type: Internal, non-removable
Image Access: USB 2.0
Storage capacity: 8 GB (≥ 5000 Snapshots)
Snapshot file type: 8-bit BMP

Environmental
Operating temperature: *-40°C to +55°C
Storing temperature: -45°C to +60°C

Additional Features (to be ordered separately)
Video and remote-control interface: up to 20m cable, Converter to USB3 with remote control functionality
Digital High precision
3D Compass: ±0.1° precision
Global navigation and time: GPS/Galileo/Glonass/BeiDou/QZSS
Wireless: Bluetooth, WiFi
Control and data: RS232, RS485, RS422

* Note: The low operating temperature depends on the power supply source
TERECON 75
Thermal Sight
NSN 5855-50-001-5956

Description:
The Terecon 75 is designed to facilitate aiming during the day and night periods using various weapons such as assault rifles, machine guns, sniper, hunting and sport rifles. The Terecon 75 can be equipped with ballistic and long-range reticle. The sight provides clear and sharp picture of the battlefield regardless of the weather, thereby increasing the operational efficiency and precision of the staff as well as its security.

Technical characteristics:
- Detector: Uncooled Microbolometer
- Spectral response: 8-14 μm
- Detector resolution: 384 x 288 / 640 x 480
- Detector pitch: 17 μm
- Detector sensitivity: < 50 mK
- Frame rate: 30 Hz
- Digital zoom: x2, x3, x4, x8
- Polarity control: Black hot, White hot, Pallettes
- Shutterless NUC: Yes
- Detail enhancement: Yes
- Display: AMOLED 800 x 600 or AMOLED 1024 x 768
- Interface: Yes, USB 2.0 over 7-pin connector
- Video output: Digital Serial LVDS interface
- Video resolution: 800 x 600
- Remote control: Multiplexed over video interface
- Reticles: User defined set of reticles, no reticle mode
- Clip on function: Yes
- Boresight: Yes, with 1 px. resolution
- Local ballistic reticle shift: Yes, with 1 mil resolution
- Reticle color selection: Black, white, light grey, dark grey, color
- Auto-shutdown function: 5 min, 15 min, 30 min (if no motion)
- Buttons control: 5 or 6 - buttons/joystick control
- Available lens: 75 mm, manual focus

Image / Video captures
- Storage type: Internal, non-removable
- Image Access: USB 2.0
- Storage capacity: 8 GB (≥5000 Snapshot)
- Snapshot file type: 8-bit BMP

Environmental
- Operating temperature: *-40°C to +55°C
- Storing temperature: -45°C to +60°C

Additional Features (to be ordered separately)
- Video and remote-control interface: up to 20m cable, Converter to USB3 with remote control functionality
- Digital High precision 3D Compass: ±0.1° precision
- Global navigation and time: GPS/Galileo/ Glonass/BeiDou/QZSS
- Wireless: Bluetooth, WiFi
- Control and data: RS232, RS485, RS422

Physical parameters
- Weight without batteries: 0.760 kg
- Dimensions (LxWxH): 215 x 75 x 90 mm
- Mounting interface: Picatinny (MIL STD 1913)
- Environmental test: MIL 810G

Power
- Power source: External, AA size, batteries (2,7...18V), USB, Video interface
- Operating time: > 7 h

* Note: The low operating temperature depends on the power supply source.
Description:
The Terecon 100 is designed to facilitate aiming during the day and night periods using various weapons such as assault rifles, machine guns, sniper, hunting and sport rifles. The Terecon 100 can be equipped with ballistic and long-range reticle. The sight provides clear and sharp picture of the battlefield regardless of the weather, thereby increasing the operational efficiency and precision of the staff as well as its security.

Technical characteristics:
- **Detector:** Uncooled Microbolometer
- **Spectral response:** 8-14 µm
- **Detector resolution:** 384 x 288 / 640 x 480
- **Detector pitch:** 17 µm
- **Detector sensitivity:** < 50 mK
- **Frame rate:** 30 Hz
- **Digital zoom:** x2, x3, x4
- **Polarity control:** Black hot, White hot, Palletts
- **Shutterless NUC:** Yes
- **Detail enhancement:** Yes
- **Display:** AMOLED 800 x 600 or AMOLED 1024 x 768
- **Interface:** Yes, USB 2.0 over 7-pin connector
- **Video output:** Digital Serial LVDS interface
- **Video resolution:** 800 x 600
- **Remote control:** Multiplexed over video interface
- **Reticles:** User defined set of reticles, no reticle mode
- **Clip on function:** Yes
- **Boresight:** Yes, with 1px. resolution
- **Local ballistic reticle shift:** Yes, with 1 mil resolution
- **Reticle color selection:** Black, white, light grey, dark grey, colors
- **Auto-shutdown function:** 5 min, 15 min, 30 min (if no motion)
- **Buttons control:** 5 or 6 - buttons/joystick control
- **Available lens:** 100 mm, manual focus

Image / Video captures
- **Storage type:** Internal, non-removable
- **Image Access:** USB 2.0
- **Storage capacity:** 8 GB (≥ 5000 Snapshots)
- **Snapshot file type:** 8-bit BMP

Environmental
- **Operating temperature:** -40°C to +55°C
- **Storing temperature:** -45°C to +60°C

Additional Features (to be ordered separately)
- **Video and remote-control interface:** up to 20m cable, Converter to USB3 with remote control functionality
- **Digital High precision 3D Compass:** ±0.1° precision
- **Global navigation and time:** GPS/Galileo/Glonass/Beidou/QZSS
- **Wireless:** Bluetooth, WiFi
- **Control and data:** RS232, RS485, RS422

*Note: The low operating temperature depends on the power supply source*
Description:
The interface is easy to use and capable of controlling several devices simultaneously. Its main functions are listed below:
- Real-time monitor and talk-back function;
- Supports alarm /MO/time/ manual trigger record;
- Supports MD (area/sensitivity optional) / private mask / picture snap;
- Supports SMTP, send picture to mail box when the alarm activates;
- Supports DDNS / RTSP;
- Supports long distance online upgrade;

Technical characteristics:

<table>
<thead>
<tr>
<th></th>
<th>IP9</th>
<th>IP13</th>
<th>IP19</th>
<th>IP25</th>
<th>IP35</th>
<th>IP50</th>
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<td>Field of view with zoom</td>
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<td>6000</td>
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<td>Human recognition</td>
<td>83</td>
<td>95</td>
<td>144</td>
<td>210</td>
<td>280</td>
<td>380</td>
<td>450</td>
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<td>580</td>
<td>800</td>
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<td>540</td>
<td>640</td>
<td>900</td>
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</tbody>
</table>

Technical characteristics for the entire product series:

- Uncooled VOx Microbolometer
- Resolution: 336 x 256 / 640 x 480
- Video display formats: 640 x 512
- Pixel pitch: 17 μm
- Spectral band: 7.5 - 13.5 μm
- Full frame rates: 9 Hz / 25 Hz
- Sensitivity (NETD): < 50 mK at f/1.0
- Time to image: ~ 3.5 sec.
- Image optimization: Yes
- Digital detail enhancement: Yes
- Polarity control (black hot / white hot): Yes
- Color & Monochrome Palettes (LUTs): Yes
- Digital zoom: 2 x and 4 x
- Flat field correction (FFC) duration: < 0.5 sec
- Analog/digital camera thermometer: Yes
- Software license: Yes, Free - included
- Processor: Hi3507 SoC ARM 926 + H.264 Codec
- Operating system: Linux 2.6.14
- Video compression: H.264 Main Profile at Level 3.0
- Video Resolution:
  - Full D1 (704 x 576 at PAL, 704 x 480 at HTSC); Half D1 (704 x 288 at PAL, 704 x 240 at HTSC)
  - CIF (352 x 288 at PAL, 352 x 240 at HTSC); QCIF (176 x 144 at PAL, 160 x 112 at HTSC)
- Bit rate: 16 ~ 4M bps
- Video input: CVBS, 1.0 Vp-p with 75Ohm loading BITE56 optional
- Audio compression: G.726
- Audio input: MIC In or Line Input Unbalanced, 1.4Vp-p, 1Vrms
- Audio output: Unbalanced 1.4Vp-p, 1Vrms
- Alarm input: 1 External alarm input
- Alarm output: 1 Relay output (NO) 120VAC 1A/24VDC 1A
- Storage: Support SD card local storage
- Ethernet: RJ-45 (10/10BASA-T)
- Protocol: TCP, UDP, IP, HTTP, DHCP, UPnP
- Power supply: 220VAC (12VDC/24VDC optional)
- Consumption: < 1A
- Humidity (non-condensing between 5% and 85%): Yes
- Encapsulation rating: IP66
- Operating temperature: -40°C to +50°C
- Storing temperature: -40°C to +60°C
- Dimensions (LxWxH): 360x151x145 mm
SWIRECON 100
HIGH PERFORMANCE SHORTWAVE INFRARED
SWIR f = 100 x 1.5 AT

SWIRECON 50
HIGH PERFORMANCE SHORTWAVE INFRARED
SWIR f = 50 x 1.5 AT

SWIRECON 25
HIGH PERFORMANCE SHORTWAVE INFRARED
SWIR f = 25 x 1.8 AT

SWIRECON 14
HIGH PERFORMANCE SHORTWAVE INFRARED
SWIR f = 14 x 1.8 AT

SWIRECON 12.5
HIGH PERFORMANCE SHORTWAVE INFRARED
SWIR f = 12.5 x 1.2 AT
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