



PRODUCT CATALOGUE

WITNESS THE EVOLUTION OF
OUTDOOR INDOOR SECURITY



ENHANCING SECURITY
PRESERVING TRUST



FOREVER BRAVE INTERNATIONAL SECURITY SERVICES

Specialises in industrial, commercial video surveillance products for outdoor and indoor environments.

OUR STRENGTH, YOUR GROWTH.

We always want to do our best. Our strength comes from our constant commitment to foster skill, ingenuity, and the ability to innovate and arrive at the best solution. That is why our products are used worldwide:

our devotion to customer satisfaction means that we are the winning choice.

OUR SKILL, YOUR CUSTOMISED SOLUTIONS

Being highly skilled in the 360° design and production of video surveillance products means we can satisfy all requests for customised solutions or integration with third-party systems, always guaranteeing quality, cyber-security, reliability and cutting-edge technology.

OUR PRODUCT LINE UP

Forever Brave International Security Services specialises in providing high-performance video surveillance products to monitor external and internal environments that fulfil all market requirements.

Our products are born destined to be appreciated for their performance and durability.



OUTDOOR AND INDOOR SECURITY

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VERTICAL MARKETS:

UNLIMITED FIELDS OF APPLICATION

The field of use of our broad product range is extremely vast: traffic control, urban surveillance, government applications, public and private facilities, commercial business, prisons, stadiums and border control.

We have a strong presence in special industries such as Oil & Gas industry, environments with high temperatures or particularly severe climatic conditions.

CRITICAL AREAS

Protecting critical infrastructures such as borders, stadiums, airports, electrical systems, and ensuring transport safety is essential to guaranteeing vital societal and economic services.

PUBLIC AND PRIVATE FACILITIES



CRITICAL INFRASTRUCTURE AND TRANSPORTATION



180 - DEGREE
OUTDOOR

SECURITY CAMERAS



A Pin, Tilt and Zoom camera is the obvious solution when you need to cover a wide area. However, regular Pin, Tilt and Zoom cameras won't always monitor 180 degrees in the same shot. For continuous 180-degree coverage, you need a different set of cameras.

ARLO 4K SPOTLIGHT SECURITY CAMERA



The Arlo Ultra 2 Spotlight Camera. It is a battery-powered wireless camera with dual-band Wi-Fi and optional AC power.

The camera system includes a 1/2" image sensor with a fixed focus lens, and the 8MP sensor implies that the camera can record 4K footage at 3840x2160 resolution.

There are both infrared and spotlight-dependent full-color night vision, and the camera prioritizes cloud storage while offering MicroSD and USB local options as a backup. Therefore, almost all smart features such as object detection and remote viewing are locked behind a paywall.

PROS

- Integrated Microphone.
- Data Transmission: 2.4GHz WiFi, 5GHz WiFi.
- Storage Options: microSD, Cloud, USB Flash Drive.
- High Resolution: 4K / Ultra HD / 8MP: 3840x2160.
- Power Options: Battery, AC Power.
- Night Vision Support: Infrared, Full Color (via Spotlight).

CONS

- Cannot automatically pan.
- No motorized tilt functionality.
- Low IP Rating: Weather-resistant.
- No optical zoom.

REOLINK 6MP MULTI-SENSOR PANORAMIC SECURITY CAMERA



The Reolink Duo 2 Camera is top pick for advanced security solutions. It's competitively priced and packed with features that cater to various installation needs and environments.

This model boasts a high-resolution 6MP camera, delivering a crystal-clear 4608x1296 pixel image. You can count on its robust IP66 rating to ensure durability against dust and heavy rain, making it perfect for both indoor and outdoor use.

The camera offers versatile power options, including PoE, DC Power, Battery, and even Solar Panel, ensuring flexibility and continuous operation regardless of your power setup. Night vision is a standout feature, with both infrared support and full-color vision enabled by a built-in spotlight.

Data transmission is seamless with options for PoE, 2.4GHz WiFi, and 5GHz WiFi, providing reliable and fast connectivity. The integrated microphone adds an extra layer of security, allowing for audio monitoring along with video surveillance.

PROS

- Integrated Microphone.
- Storage Options: microSD, NVR, Cloud.
- Smart Integrations: Google Assistant, Chromecast, Google Nest Hub.
- High Resolution: 6MP: 4608x1296.
- IP Rating: IP66.
- Smart Motion Detection Features: Person Detection, Vehicle Detection, Animal Detection.

CONS

- No motorized tilt functionality.
- No optical zoom.
- Cannot automatically pan.

HIKVISION 2MP MULTI-SENSOR PANORAMIC SECURITY CAMERA



Our top pick is the Hikvision DS-2CD6924G0-IHS, a multi-sensor panoramic camera with PoE capabilities.

For maintaining a continuous 180-degree frame, this device utilizes a four-camera system. Each camera in this array includes a fixed focus lens that records footage at 2MP 1080p resolution. Therefore, the final result is 180-degrees of continuous coverage at a maximum 8MP resolution. This multi-sensor camera works best with a compatible NVR. Nonetheless, it offers several alternatives such as MicroSD (256GB maximum capacity), NAS, and FTP. Also, there is support for ONVIF and RTSP.

The camera housing is primarily built from an aluminum alloy and includes an official IP67 weatherproof rating.

PROS

- IP Rating: IP67.
- Smart Motion Detection Features: People Counting.
- Night Vision Support: Infrared, Full Color (via Low Light Sensor / Tech).
- Storage Options: microSD, NVR, NAS, FTP.
- Power Options: PoE, DC Power.
- Data Transmission: PoE.

CONS

- No optical zoom.
- Cannot automatically pan.
- No motorized tilt functionality.
- Does not have an integrated siren.
- No smart home integrations.
- Relatively Low Resolution: 2MP; 1080P / HD: 1920x1080.

PELCO 2K MULTI-SENSOR PANORAMIC SECURITY CAMERA



Pelco's 12 MP Optera™ Multi-Sensor Panoramic IP Camera is an expensive feature-packed multi-sensor security camera and it uses PoE as the shared medium for power and data transmission.

Each camera in this four-camera array utilizes 1/3.2" CMOS sensors with fixed focus lenses. The maximum resolution of the stitched image is 2048x1536 (2K res), and this footage covers a continuous 180-degrees horizontally.

There is True WDR processing for the footage with a maximum supported framerate of 30fps. On top of that, this is one of the few panoramic security cameras that include starlight sensors for recording full-color night vision.

PROS

- Power Options: PoE.
- IP Rating: IP66.
- Smart Motion Detection Features: Person Detection, Vehicle Detection, Object Detection.
- Night Vision Support: Infrared, Full Color (via Low Light Sensor / Tech).
- Storage Options: microSD, NVR, FTP.
- Data Transmission: PoE.

CONS

- No integrated microphone
- Cannot automatically pan
- Relatively Low Resolution: 2K: 2048x1536
- No motorized tilt functionality
- No optical zoom
- Does not have an integrated siren

VIVOTEK 8MP MULTI-SENSOR PANORAMIC SECURITY CAMERA



The Vivotek MS9390-HV is a dome-style multi-sensor camera with PoE functionality. It has a dual-camera configuration with fixed-focus lenses that export BMP(4512x1728) resolution stitched footage.

There is support for True WDR, and the camera system can export up to four simultaneous video streams, each with a different framerate and resolution. The maximum supported framerate is 30fps at the highest 4512x1728 resolution.

The system supports ONVIF (S, G, and T profiles) and RTSP protocols and includes MicroSD/SDHC/ SDXC support alongside NAS, FTP, and NVR.

The housing for the camera is water-resistant at IP66 and can endure temperatures ranging from -4F to 131F.

PROS

- Data Transmission: PoE.
- Smart Motion Detection Features: Person Detection, Face Detection, Object Detection, Sound Detection.
- Night Vision Support: Infrared, Full Color (via Low Light Sensor / Tech).
- Integrated Microphone.
- High Resolution: 8MP: 4512x1728.

CONS

- No optical zoom.
- Does not have an integrated siren.
- Cannot automatically pan.
- No smart home integrations.
- No motorized tilt functionality.

AXIS 6MP FISHEYE SECURITY CAMERA



Our top pick is the AXIS M3057-PLVE Network Camera. This fisheye lens security camera uses PoE for power and data transmission with additional options for a MicroSD card, NAS, and FTP. (Also supports ONVIF and RTSP protocols.)

The maximum resolution of the exported footage is 6MP (3072x2048), and the fisheye lens allows for a complete 185-degree horizontal and vertical FOV. On top of that, the footage is processed using True WDR and supports a maximum framerate of 30fps for overview and dewarped footage at maximum resolution. (It can also export 1080p footage at 60fps.)

This fisheye lens camera has IP66 protection and includes an operating temperature range of -40F to 122F.

PROS

- Data Transmission: PoE.
- Night Vision Support: Infrared, Full Color (via Low Light Sensor / Tech).
- Power Options: PoE.
- IP Rating: IP66.
- Storage Options: microSD, NVR, NAS, FTP.
- High Resolution: 6MP / Super HD: 3072x2048.

CONS

- Does not have an integrated siren.
- No smart / AI motion detection.
- No smart home integrations.
- No optical zoom.
- No integrated microphone.
- No motorized tilt functionality.

DAHUA 9MP FISHEYE SECURITY CAMERA



The Dahua 12 MP Network Fisheye Camera is an IP-based device with PoE for data transfer and optional DC/AC power.

The maximum resolution of the 9MP camera is 3000x3000 and covers 185-degrees horizontally and 180-degrees vertically.

Unfortunately, the system does not support True WDR. Instead, it relies on Digital WDR/HDR to improve the clarity and contrast of the footage. This system can export three separate streams, with the primary stream uploading 12MP (4000x3000) footage at 25fps.

The storage options include NVR, NAS, FTP, and MicroSD storage with 256GB onboard capacity. On top of that, it supports multiple interoperability protocols such as ONVIF, RTSP, CGI, and P2P.

PROS

- Storage Options: microSD, NVR, NAS, FTP.
- Data Transmission: PoE.
- Power Options: PoE, DC Power, AC Power.
- Integrated Microphone.
- Smart Motion Detection Features: Person Detection, Vehicle Detection, Object Detection, People Counting.
- Night Vision Support: Infrared.

CONS

- No motorized tilt functionality.
- No smart home integrations.
- Cannot automatically pan.
- No optical zoom.
- Does not have an integrated siren.

HIKVISION 12MP FISHEYE SECURITY CAMERA



The HIKVISION DS-2CD63CS00E-IVS is a high-end fisheye security camera. It is an IP-based device that relies on PoE for electrical power and data transmission. (Including the optional DC power option.)

The 12-megapixel camera allows the fisheye lens to record footage at a maximum resolution of 4000x3000. On top of that, the fisheye lens covers a complete 360-degree FOV that includes post-processing features allowing it to seamlessly dewarp the fisheye effect.

The camera system can transmit two separate video streams. The primary stream (that prioritizes image quality over accessibility) includes the maximum 4000x3000 resolution at 20fps, while the substream handles 20fps footage at either 720p (720x720) or 480p (640x480) resolution. (For faster remote viewing.)

Also, this is one of the few cameras to include an official IK10 rating.

PROS

- Power Options: PoE, DC Power.
- Storage Options: microSD, NVR, NAS, FTP.
- IP Rating: IP67.
- Integrated Microphone.
- Night Vision Support: Infrared.
- High Resolution: 12MP: 4000x3000.

CONS

- Does not have an integrated siren.
- No motorized tilt functionality.
- No smart home integrations.
- No smart / AI motion detection.
- Cannot automatically pan.
- No optical zoom.

AVERTX 9MP FISHEYE SECURITY CAMERA



The AvertX 9MP IR 360° Dome Camera has a fisheye lens with 3000x3000 (9MP) maximum resolution and a fixed focus lens.

The camera can export two separate audio streams, with either of these having the maximum possible framerate of 20fps. Also, the system supports only H.264 and H.265 codecs and processes footage using Digital WDR, the software-based version of True WDR.

This IP-based system relies solely on PoE for power and data transmission. Therefore, you will always need a PoE switch or PoE compatible NVR for this fisheye camera to work. (Class 3 48W 15W medium power PoE.)

PROS

- Power Options: PoE.
- High Resolution: 9MP: 3000x3000.
- Integrated Microphone.
- Night Vision Support: Infrared, Full Color (via Low Light Sensor / Tech).
- Data Transmission: PoE.
- Smart Motion Detection Features: Person Detection, Vehicle Detection, People Counting, Heat Map.

CONS

- Does not have an integrated siren.
- No motorized tilt functionality.
- No smart home integrations.
- No optical zoom.
- Cannot automatically pan.

AVIGILON H5A FISHEYE CAMERA SECURITY CAMERA



The Avigilon H5A Fisheye Camera has a complete 360-degree FOV and records everything in a crystal clear 2K resolution of 2048x1536. The device is IP-based and includes a DC power receptacle on top of the existing class 3 PoE.

This camera records 2K footage at 2048x1536 resolution, and since it is a fisheye lens, the horizontal FOV is 360-degrees. The footage is processed using 120dB True WDR and compressed with H.264, H.265, or MJPEG codes. It exports three separate streams, each with a maximum framerate of 30fps.

Apart from NVR support, the device includes two MicroSD card slots. However, they need to be class 10 full HD-compatible cards.

PROS

- Integrated Microphone.
- IP Rating: IP67.
- Power Options: PoE, DC Power, Battery.
- Night Vision Support: Infrared.
- Storage Options: microSD, NVR.
- Smart Motion Detection Features: Person Detection, Vehicle Detection, Object Detection.

CONS

- No motorized tilt functionality.
- No optical zoom.
- Does not have an integrated siren.
- No smart home integrations.
- Cannot automatically pan.
- Relatively Low Resolution: 2K: 2048x1536.



ANALOG HD
/ COAX

SECURITY CAMERAS



While IP cameras are the go-to for new installations, for those with pre-established coax cable runs, it's much easier and cheaper to swap out your old analog HD cameras for newer ones.

AMCREST 5MP TURRET SECURITY CAMERA



As my top recommendation, the Amcrest 5-megapixel Analog Security Camera provides excellent video quality and clarity, making it perfect for monitoring your property. It uses a 5MP image sensor that can record in 2592x1944 resolution and utilizes True WDR to make the footage even more crisp and detailed.

NightColor

Night vision gets a significant boost on this camera as it's able to maintain full color despite low light thanks to NightColor technology. So with a strong sensor and a powerful chipset, it will work through the night, delivering clear, colored images as far as 98 feet.

Easy to Handle

This camera impresses in design too. Unlike the old bulky cameras, this one is compact and sleek, measuring only 13.3 x 10.43 x 4.37 inches, and weighing just 1.65 pounds. As such, it takes up less space and can be installed anywhere. Also, with its waterproof IP67 rating, you don't have to worry about installing it outdoors.

BNC Connectors and Notable Issues

The camera's use of BNC cables simplifies the connection. It features a 2296ft transmission range for video and audio through a single coaxial cable and supports two-way compression compatible with H.265 and H.264 formats.

This ensures strong encryption and broad compatibility. However, some users say the promised 5-megapixel image quality falls short. Also, it might clash with some cable configurations.

PROS

- Power Options: DC Power.
- Night Vision Support: Infrared, Full Color (via Spotlight).
- IP Rating: IP67.
- Integrated Microphone.
- Data Transmission: Coax.
- Storage Options: DVR.

CONS

- No smart home integrations.
- Cannot automatically pan.
- No optical zoom.
- No smart / AI motion detection.
- Does not have an integrated siren.
- No motorized tilt functionality.

2. LOREX 2MP PTZ SECURITY CAMERA



The Lorex 2MP PTZ Security Camera is my top recommendation for versatile and high-performance surveillance. It's affordably priced and includes everything you need to enhance your security setup.

This model features an IP66 rating, ensuring it's dust-tight and protected against heavy rain, making it suitable for both indoor and outdoor installations. You won't have to worry about weather conditions affecting its performance.

Powering the camera is straightforward with its DC power option, providing a reliable and consistent power source. Additionally, the camera is equipped with motorized pan and tilt features, allowing for comprehensive coverage and precise control over your surveillance area. Night vision is another highlight of the Lorex 2MP PTZ Security Camera. It supports both infrared and full-color vision through advanced low-light sensor technology, ensuring clear and detailed images even in complete darkness.

For storage, the camera uses a DVR system, offering secure and expandable storage options for your footage. You can easily record and access your video data as needed. In summary, the Lorex 2MP PTZ Security Camera is an excellent choice for those looking for a robust, flexible, and high-quality security solution with advanced features.

PROS

- Motorized Optical Zoom Lens.
- IP Rating: IP66.
- Night Vision Support: Infrared, Full Color (via Low Light Sensor / Tech).
- Power Options: DC Power.
- Motorized Pan Feature.
- Motorized Tilt Feature.

CONS

- Relatively Low Resolution: 2MP: 1080P / HD: 1920x1080.
- No smart home integrations.
- No integrated microphone.
- Does not have an integrated siren.
- No smart / AI motion detection.

DAHUA 4K BULLET SECURITY CAMERA



Dahua 4K Bullet Security Camera is another great option if you are looking for an analog camera quality that will deliver you high-quality video footage without all the fuss.

Camera Sensor and Image Quality

This camera can record in 4K, and it also comes with a true WDR feature which significantly improves the video quality of your camera.

Also, when it comes to recording at night, the Dahua 4K Bullet Security Camera can record in regular infrared (black and white), but it can also use its starlight sensors to record in full color without the aid of a built-in spotlight.

PROS

- Data Transmission: Coax.
- IP Rating: IP67.
- Night Vision Support: Infrared, Full Color (via Low Light Sensor / Tech).
- High Resolution: 4K / Ultra HD / 8MP: 3840x2160.
- Integrated Microphone.
- Power Options: DC Power, AC Power.

CONS

- No optical zoom.
- No smart home integrations.
- Cannot automatically pan.
- No smart / AI motion detection.
- No motorized tilt functionality.
- Does not have an integrated siren.

SWANN 4K TURRET SECURITY CAMERA



This 4K Turret Security Camera by Swann uses an 8MP image sensor to record footage in 4K. With a wide 102-degree field of view, this camera covers a broad area, reducing the need for multiple cameras and lowering the cost of home security.

Smart Integration

Although it lacks audio deterrents such as a siren or two-way audio, the Swann 4K Turret Security Camera is a rare analog camera that sports light deterrents and smart integrations. As such, this camera supports remote viewing, notifications, and routines with Alexa, Google Assistant, Chromecast, Echo Show, and Fire TV.

Spotlight and Night Vision

The Swann camera also has deterrence features such as flashing lights and spotlights. Paired with a motion sensor, these features enhance home defense even before there's a need to record.

In terms of night vision, it allows you to record in full color during the night. It also has an infrared sensor with a range of 130ft(40m). Unfortunately, this camera's full-color range is only 32ft(10m).

Ease of Use and Weather Protection

Swann's model outperforms typical security cameras in simplicity. Its wired design implies easy setup, without the need for batteries.

It's also built from tough materials for weather resistance (IP66) and is lightweight for effortless installation - good news for homeowners wanting practicality.

PROS

- Night Vision Support: Infrared, Full Color (via Spotlight).
- Smart Integrations: Alexa, Google Assistant, Chromecast, Echo Show, Fire TV.
- IP Rating: IP66.
- Integrated Siren / Alarm.
- High Resolution: 4K / Ultra HD / 8MP: 3840x2160.
- Storage Options: DVR.

CONS

- No optical zoom.
- No motorized tilt functionality.
- Cannot automatically pan.
- No integrated microphone.

NIGHT OWL 4K BULLET SECURITY CAMERA



Night Owl 4K Spotlight Security Camera bundle is a great option to add more security features to your existing coaxial system.

Modern Security Features

What makes it so different is that it comes with several image detection and deterrents built-in. This includes spotlights, alarm/siren, and voice presets that can be triggered with motion. These cameras use smart detection technology, including human detection, facial capture, and vehicle alerts, to minimize false alarms and keep you safe.

Night Vision

The camera pair has infrared night vision to capture details in stealthy pitch black. However, if you want to make its presence known, you also have the option to enable its motion-activated spotlights.

So even though color night vision has its benefits, you can easily switch back and forth without compromising on a maximum night vision range of 100ft.

What's more, the kit's weather-resistant casing makes it a hardy option for indoor and outdoor installations.

Drawbacks

It's not all good news, though, some users have reported that the initial setup can be tricky. Also, it's limited in terms of compatibility, so you're going to have to pair it up with a BTDB Series DVR.

PROS

- Integrated Siren / Alarm.
- Data Transmission: Coax.
- Smart Motion Detection Features: Person Detection, Vehicle Detection, Face Detection.
- Night Vision Support: Infrared, Full Color (via Spotlight).
- IP Rating: IP65.
- Power Options: AC Power.

CONS

- Cannot automatically pan.
- No motorized tilt functionality.
- No smart home integrations.
- No optical zoom.
- No integrated microphone.

THERMAL
IMAGING

SECURITY CAMERAS



Handheld thermal imaging cameras help you view a thermal X-ray of a person or object. They are easy to carry and allow the user to observe and capture thermal photos for future reference.

FLIR TG165-X THERMAL IMAGING CAMERA



The FLIR TG165-X is our top pick for the best handheld thermal camera. It has a pistol-grip design with a 2.1-inch TFT display.

The infrared sensor is an uncooled microbolometer with a 7.5–14 μm spectral range, allowing it to detect temperatures ranging between -13°F to 572°F (-25°C to 300°C). The thermal module has an 80x60 IR resolution and an effective thermal sensitivity of $<70\text{mK}$.

The battery on this device allows for five hours of continuous scanning with a recharge time of six hours to reach 100%. There are 4GBs of eMMC storage which can store up to 50,000 photos. Also, you can review the images from the device itself, thanks to the gallery function built into the software.

PROS

- Power Options: Battery.
- Smart Motion Detection Features: Heat Map.
- Storage Options: eMMC.

CONS

- Cannot automatically pan.
- No optical zoom.
- No motorized tilt functionality.
- Cannot stream data wirelessly or over cable.
- Relatively Low Resolution: 2MP: 1600x1200.
- No integrated microphone.

HIKMICRO 256×192 THERMAL IMAGING CAMERA



The HikMicro Thermal Imaging Camera is our runner up pick for the best wireless thermal imaging camera. It features a compact design with a 256x192 resolution lens, providing detailed thermal images for accurate analysis.

This model is equipped with advanced thermal imaging and heat map detection, allowing you to identify temperature variations and monitor heat patterns efficiently. The thermal sensor captures a broad range of temperatures with high precision, making it ideal for various applications.

For storage, the HikMicro Thermal Imaging Camera uses eMMC technology, ensuring reliable and fast data storage. You can securely save your thermal images and access them quickly when needed.

The camera operates wirelessly and is powered by a battery, offering flexibility and convenience for portable use. This wireless capability ensures that you can easily set up and use the camera without the hassle of cords or cables.

In summary, the HikMicro Thermal Imaging is an excellent choice for those seeking a high-performance, wireless thermal imaging camera with advanced features and reliable storage.

PROS

- Storage Options: eMMC.
- Smart Motion Detection Features: Heat Map.
- Power Options: DC Power, Battery.

CONS

- No optical zoom.
- No smart home integrations.
- Cannot automatically pan.
- No motorized tilt functionality.
- Does not have an integrated siren.
- Cannot stream data wirelessly or over cable.

HTI 320×240 THERMAL IMAGING CAMERA



The HT-19 handheld thermal imaging camera has a wider temperature range as it can measure temperatures ranging from -4°F to 932°F (-20°C to 500°C) with a ±2.5°C accuracy.

The device itself has a pistol-grip design with a 3.2-inch TFT display. There is support for five color palettes that include white hot, black hot, and rainbow, to name a few.

In terms of battery life, the device can run 2-3 hours continuously before needing a recharge. Fortunately, you can easily remove the Li-Ion 18650 cell from the device and swap it for another battery. (You can also recharge the battery via the Micro-USB port located in the device.) There is 3GB built-in storage which HTI claims is enough to store 20,000 images.

PROS

- Storage Options: eMMC.
- Smart Motion Detection Features: Heat Map.
- Power Options: Battery.

CONS

- No smart home integrations.
- No night vision support.
- No integrated microphone.
- No motorized tilt functionality.
- Low IP Rating: Not Weather Proof / Resistant.
- Does not have an integrated siren.

FLIR C5 THERMAL IMAGING CAMERA



The FLIR C5 handheld camera is a compact device with a smartphone-like design.

The thermal camera has a 160x120 IR resolution, and it can record temperatures ranging between -4 degrees to 752 degrees (-20 degrees to 400 degrees) with a NETD value of <math><70\text{mK}</math>. The camera has a four-hour continuous battery life with a USB-C interface that fully charges the device in just a couple of hours.

Apart from the thermal module, it includes a SMP optical camera that allows you to capture images in full color and integrate them into the thermal images as a picture-in-picture or as FLIR MSX®.

In FLIR MSX®, the thermal image is supplemented with the optical image, making the edges pop out so that different objects can be identified easily.

PROS

- Data Transmission: 2.4GHz WIFI
- Power Options: Battery
- Storage Options: Cloud
- Smart Motion Detection Features: Heat Map

CONS

- No night vision support.
- No optical zoom.
- No motorized tilt functionality.
- No smart home integrations.
- No integrated microphone.
- Does not have an integrated siren.

SEEK THERMAL 320x240 THERMAL IMAGING CAMERA



Seek Thermal's Reveal Pro is another versatile handheld thermal security camera. This device includes a VOx sensor with a 320x240 IR resolution and supports a temperature range of -40 degrees to 1022 degrees (-20 degrees to 550 degrees).

The fixed-focus lens can measure temperatures at a maximum distance of 1800ft with thermal sensitivity of <math><70\text{mK}</math>.

The device has a smartphone-like design with a 2.5-inch corning gorilla glass display and support for up to nine color palettes that include grayscale and rainbow. The camera has a four-hour battery life and four GB of internal memory.

Also, a couple of other unique features include a 300-lumen flashlight and 4x digital zoom.

PROS

- Power Options: Battery
- Storage Options: eMMC
- Smart Motion Detection Features: Heat Map

CONS

- No optical zoom.
- No motorized tilt functionality.
- No integrated microphone.
- Relatively Low Resolution: 320x240.
- No smart home integrations.
- Cannot automatically pan.

PERFECT PRIME 640x480 THERMAL IMAGING CAMERA



Perfect Prime's IR00019 handheld thermal camera measures thermal radiation within a 320x240 IR resolution with a minimum sensitivity of 0.07 degrees. Its supported temperatures range from -4 degrees to 572 degrees (-20 degrees to 300 degrees), and it can process thermal footage in five different color palettes. (Includes rainbow and both greyscale palettes.)

There is a 4GB MicroSD card included in the device, and you can easily swap it out for better storage. Also, the battery is a 18650 Li-Ion cell which can be swapped out or recharged from the device itself via Micro-USB.

PROS

- Power Options: Battery.
- Storage Options: eMMC.
- Smart Motion Detection Features: Heat Map.

CONS

- No smart home integrations.
- Does not have an integrated siren.
- No night vision support.
- Relatively Low Resolution: 640x480.
- Cannot automatically pan.
- No optical zoom.

HIKMICRO 256x192 THERMAL IMAGING CAMERA



Hikmicrotech's B10 handheld thermal camera utilizes the pistol-grip design to create a feature-packed device that includes an optical module as an additional feature.

The VOx thermal sensor has an IR resolution of 256x192, and it can measure any temperatures ranging between -4°F to 1022°F (-20°C to 550°C) within a $\pm 40\text{mK}$ NETD value. The camera has 16GB of eMMC storage with a battery that can support the device continuously for a maximum of six hours.

The optical module allows the user to take color photos. Apart from that, it supports several image modes such as separate thermal or optical, picture-in-picture, or a combination of the two (called fusion), where the thermal image is enhanced with the aid of the optical counterpart. (Improves edges and finer details.)

PROS

- Smart Motion Detection Features: Heat Map.
- Power Options: DC Power, Battery.
- Storage Options: eMMC.

CONS

- Cannot stream data wirelessly or over cable.
- No smart home integrations.
- Relatively Low Resolution: 256x192.
- Cannot automatically pan.
- No motorized tilt functionality.
- No integrated microphone.

SEEK THERMAL SHOTPRO THERMAL IMAGING CAMERA



Our final item is Seek Thermal's Shot Pro. It has a more compact smartphone-like design with a VOx thermal sensor, and its supported temperatures can range anywhere from -40 degrees to 626 degrees (-40 degrees to 330 degrees) with a NETD value of <70mK.

The enclosure has an IP54 splash-resistant rating, and to keep things water-tight as much as possible: there are no removable batteries or microSD cards. Instead, the device has a built-in 4GB storage along with a non-removable battery that can last up to four hours on a single charge.

There is also an optical module that allows the user to combine both thermal and optical footage to process the image for better readability.

PROS

- Smart Motion Detection Features: Heat Map.
- Power Options: Battery.
- Storage Options: eMMC.
- Data Transmission: 2.4GHz WiFi.

CONS

- No smart home integrations.
- No optical zoom.
- Relatively Low Resolution: 320x240.
- No night vision support.
- No motorized tilt functionality.
- No integrated microphone.



ULISSE
EVO

ULISSE PTZ CAMERAS



The ULISSE EVO PTZ cameras combine high technology, design and competitiveness and guarantee safe video surveillance in town centres, transport and critical infrastructures. The robust design and the lightweight simplify installation operations. This PTZ offers unbeatable resistance to the wind in continuous operation up to 230km/h, IK10 impact, and maintains maximum efficiency with temperatures from -40°C to +66°C. The ULISSE EVO cameras are unbeatable for their exceptionally bright images even in difficult lighting conditions and provide video recordings with crisp details and vivid colours by day and night. ULISSE EVO is available with an integrated super low-light camera with 30x motorised zoom, with Delux video encoding technology.

Alternatively, the models with Sony FCB-EV7520 camera offer an electronic image stabiliser, advanced HLC technology and dynamic masking of privacy zones. The ULISSE EVO DUAL provides two independent video simultaneously from a high-sensitivity visual camera and a thermal camera. The ULISSE EVO THERMAL versions integrate a thermal camera with radiometric functions. The thermal camera can identify targets moving in the dark or from a distance with extreme accuracy.



OUTDOOR AND INDOOR SECURITY

ULISSE EVO

ULISSE PTZ CAMERAS

ULISSE EVO

ULISSE EVO DUAL

ULISSE EVO THERMAL

CAMERA	SONY FCB-EV7520	DELUX TECHNOLOGY	Day/Night camera + Thermal camera	Thermal camera
Type of camera	Day/Night camera	Day/Night camera	Day/Night camera + Thermal camera	Thermal camera
Radiometric analysis	-	-	-	✓
Image electronic stabilizer	✓	-	✓	-
Resolution	Day/Night: Full HD (1920x1080)	Day/Night: Full HD (1920x1080)	Day/Night: Full HD (1920x1080) Thermal camera: 720x480 (interpolated resolution)	720x480 (interpolated resolution)
Minimum illumination	Colour: 0.001lx; (50 IRE, high sensitivity on) B/W: 0.000lx; (30 IRE, high sensitivity on)	Colour: 0.001lx (F1.6, 30 IRE) B/W: 0.000lx (F1.6, 30 IRE)	0.013lx (50 IRE, high sensitivity on) B/W: 0.000lx (30 IRE, high sensitivity on)	-
Zoom	30x (16x with digital zoom)	30x (40x with digital zoom)	Thermal camera (digital zoom): 8x Day/Night: 30x (30x with digital zoom)	2x, 4x (316x/216) 2x, 4x, 8x (340x/172)
Lens	f- from 4.3mm (wide) up to 129mm (tele), from F1.6 up to F14	f- from 4.5mm (wide) up to 135mm (tele), from F1.6 up to F9.6	Thermal camera: 4.3mm, 9.1mm, 18mm, 25mm, 35mm, 50mm Day/Night: f- from 4.3mm (wide) up to 129mm (tele), from F1.6 up to F14	8mm, 13mm, 19mm, 25mm, 35mm
Privacy zones masking	✓ (dynamic masking)	✓	✓ (dynamic masking)	-
MECHANICAL				
Material	Aluminium and Tecopolymer	Aluminium and Tecopolymer	Aluminium and Tecopolymer	Aluminium and Tecopolymer
Unit weight	7.1kg (15.6lb) (7.4kg (16.3lb) with LED illuminator)	7.1kg (15.6lb) (7.4kg (16.3lb) with LED illuminator)	7.4kg (16.3lb)	7.1kg (15.6lb)
Horizontal rotation	360°, continuous rotation	360°, continuous rotation	360°, continuous rotation	360°, continuous rotation
Vertical rotation	From -90° up to +90°	From -90° up to +90°	From -90° up to +90°	From -90° up to +90°
Horizontal speed (variable)	From 8.1"/s up to 238"/s	From 8.1"/s up to 238"/s	From 0.1"/s up to 250"/s	From 8.1"/s up to 238"/s
Tilt speed (variable)	From 8.1"/s up to 238"/s	From 8.1"/s up to 238"/s	From 0.1"/s up to 250"/s	From 8.1"/s up to 238"/s
Position accuracy	0.05°	0.05°	0.05°	0.05°
ELECTRICAL				
Supply voltage/current consumption	24Vdc, 5A, 50/60Hz 24Vdc, 5A PoE 90W	24Vdc, 5A, 50/60Hz 24Vdc, 5A PoE 90W	24Vdc, 5A, 50/60Hz 24Vdc, 5A PoE 90W	24Vdc, 5A, 50/60Hz 24Vdc, 5A PoE 90W
Power consumption	57W max (peak on switch-on, heating switched on, de-icing function)	57W max (peak on switch-on, heating switched on, de-icing function)	57W max (peak on switch-on, heating switched on, de-icing function)	57W max (peak on switch-on, heating switched on, de-icing function)
SOFTWARE				
Communication protocol	ONVIF, Profile G, Profile S and Profile T	ONVIF, Profile G, Profile S and Profile T	ONVIF, Profile G, Profile S and Profile T	ONVIF, Profile G, Profile S and Profile T
Video compression	H.264/MVC, MJPEG, MPEG4, snapshot JPEG	H.264/MVC, MJPEG, MPEG4, snapshot JPEG	H.264/MVC, MJPEG, MPEG4, snapshot JPEG	H.264/MVC, MJPEG, MPEG4, snapshot JPEG
Video analytics	optional	optional	-	-
Cybersecurity	✓	✓	✓	✓
ENVIRONMENT				
Operating temperature	From -40°C (-40°F) up to +65°C (147°F) (continuous working)	From -40°C (-40°F) up to +65°C (147°F) (continuous working)	From -40°C (-40°F) up to +65°C (147°F) (continuous working)	From -40°C (-40°F) up to +65°C (147°F) (continuous working)
Compliance to railway applications	✓	✓	✓	✓
Relative humidity	From 5% up to 95%	From 5% up to 95%	From 5% up to 95%	From 5% up to 95%
Marine Certification	Lloyd's Register Marine Type Approval	Lloyd's Register Marine Type Approval	Lloyd's Register Marine Type Approval	Lloyd's Register Marine Type Approval

ULISSE EVO



ULISSE EVO - CONFIGURATION OPTIONS

	Voltage	Camera	Colour	Video Analytics	Revisions
WE	2 240V, 200W, PSE NEW	1 Super low light daylight camera, FULL HD 1080p, 70x, with DELUX technology	A Grey/white (RAL9002)	000 Without Integrated video analysis (without XISYSITE ANALYTICS)	A Complies with ONVIF Profile G, Profile S and Profile T
		2 500V FCB EV7528 camera, FULL HD 1080p, 36x	F Black (RAL9005)	000 With Integrated video analysis (XISYSITE ANALYTICS)	J Complies with ONVIF Profile S and Profile T

ULISSE EVO DUAL - CONFIGURATION OPTIONS

	Voltage	Day/Night camera	Thermal camera	Colour	Video Analytics	Revisions	Frequency
WED	2 240V, 240W, PSE NEW	2 500V FCB EV7528 camera, FULL HD 1080p, 36x	C Thermal camera 6.3mm, 520x120	A Grey/white (RAL9002)	000	A Complies with ONVIF Profile G, Profile S and Profile T	- 1.500
			D Thermal camera 9.7mm, 320x120			J Complies with ONVIF Profile S and Profile T	H 3000
			F Thermal camera 13mm, 520x120				
			I Thermal camera 8.7mm, 640x112				
			L Thermal camera 11mm, 640x112				
			N Thermal camera 20.0mm, 640x112				

ULISSE EVO THERMAL - CONFIGURATION OPTIONS

	Voltage	Camera	Colour	Radiometry	Revisions	Frequency
WT	2 240V, 200W, PSE NEW	I Thermal camera 30mm, 520x120	A Grey/white (RAL9002)	000 Thermal camera with radiometric functions	A	- 1.500
		L Thermal camera 20mm, 520x120	F Black (RAL9005)	000 Thermal camera with advanced radiometric functions	H	3000
		E Thermal camera 15mm, 520x120				
		M Thermal camera 13mm, 520x120				
		Q Thermal camera 8mm, 520x120				
		D Thermal camera 30mm, 640x112				
		E Thermal camera 20mm, 640x112				
		B Thermal camera 15mm, 640x112				
		C Thermal camera 13mm, 640x112				
		N Thermal camera 8mm, 640x112				

Focal length from available on request.

ULISSE

ULISSE PTZ CAMERAS AND UNITS



The robust ULISSE PTZ units guarantee maximum surveillance coverage in every outdoor environment, even the most difficult, without maintenance interventions. The ULISSE PTZs combine high speed with utmost tracking accuracy, both in manual and patrol operation.

The ULISSE2 is a Full-IP PTZ unit that boasts outstanding functional performance and the ability to manage all third-party ONVIF-S IP cameras. You can directly access the camera via a browser, with a single IP address, allowing control over configuration and diagnostics. ULISSE2 is compatible with 4K cameras.

The ULISSE MAXI and ULISSE MAXI NETCAM are robust and efficient PTZ camera units designed to ensure dynamic, non-stop surveillance of large outdoor areas whilst withstanding harsh weather conditions. This model can house and manage the largest motorised lenses on the market, taking a total weight up to nearly 8 kilos.

The ULISSE RADICAL is a ready-to-use, Full HD network PTZ system that offers a high-quality camera/lens combination. It is pre-configured and pre-assembled at the factory, ensuring seamless operation with simplified installation.



ULISSE EVO



ULISSE PTZ CAMERAS

ULISSE RADICAL

ULISSE RADICAL THERMAL

Video output	IP video output	IP video output	Analogue video output			
CAMERA						
Type of camera	Day/Night camera	Thermal camera 640x512 (7.5x, 30x, 15-30x) Thermal camera 336x256 (7.5x, 30x, 15-30x)	Thermal camera 640x512 (7.5x, 30x, 15-30x) Thermal camera 336x256 (7.5x, 30x, 15-30x)			
Resolution	Full HD (1920x1080)	Full HD (1920x1080 PAL, 70x480 NTSC)	Full HD (1920x1080 PAL, 70x480 NTSC)			
Zoom	33x	3x (continuous zoom), digital zoom up to 3x, 2x total zoom	3x (continuous zoom), digital zoom up to 3x, 2x total zoom			
Lens	Fx From 15.2mm up to 500mm, F1.8 (Thermal compensation system and Visible Cut Filter)	Fx From 31 up to 103mm, F1.8	Fx From 31 up to 103mm, F1.8			
MECHANICAL						
Material	Aluminium and Telescopier	Aluminium and Telescopier	Aluminium and Telescopier			
Horizontal rotation	360°, continuous rotation	360°, continuous rotation	360°, continuous rotation			
Vertical rotation	From -4° up to +2°	From -4° up to +4°	From -4° up to +4°			
Horizontal speed (variable)	From 0.02°/s up to 30°/s	From 0.02°/s up to 100°/s	From 0.02°/s up to 100°/s			
Tilt speed (variable)	From 0.02°/s up to 30°/s	From 0.02°/s up to 10°/s	From 0.02°/s up to 10°/s			
Position accuracy	0.02°	0.02°	0.02°			
Glass cleaning device	Integrated wiper	-	-			
ELECTRICAL						
Supply voltage/current consumption	230Vac, 0.6A, 100W/0 120Vac, 0.6A, 50/60Hz 230Vac, 4A, 50/60Hz	230Vac, 0.4A, 100W/0 120Vac, 0.4A, 50/60Hz 230Vac, 4A, 50/60Hz 100W max	230Vac, 0.4A, 100W/0 120Vac, 0.4A, 50/60Hz 230Vac, 4A, 50/60Hz 100W max			
Power consumption	Version with LED Illuminator: 100W max Version without LED Illuminator: 100W max	-	-			
SOFTWARE						
Communication protocol	ONVIF, Profile S	ONVIF, Profile S	-			
Video compression	H.264/MC, MJPEG	H.264/MC, MJPEG	-			
Serial communication protocol	-	-	AMERICAN DYNAMICS, EMTEC, PANASONIC, PELCO D, VIOBOTIC MACRO			
ENVIRONMENT						
Operating temperature	From -30°C (-23°F) up to +60°C (140°F)	From -40°C (-40°F) up to +60°C (140°F)	From -40°C (-40°F) up to +60°C (140°F)			
Relative humidity	From 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)			
ULISSE RADICAL - CONFIGURATION OPTIONS						
Voltage	Camera	Lens	Options	Video Output		
IPV	1 120Vac	P Full HD 60Hz Lens CMOS 1/3.1"	Z 32mm 15x with Thermal Compensation and Visible Cut Filter	M With wiper and counterweights	A B ONVIF protocol, Profile S 800	
	2 240Vac			J With wiper, counterweights and prearranged for IP/IRIS (only 240Vac, Illuminators not included)		
	3 120Vac					
ULISSE RADICAL THERMAL - CONFIGURATION OPTIONS						
Voltage	Thermal Camera	Lens	Options	Video Output	Frequency	
IPVT	1 230Vac	A 640x512 pixel	F Thermal zoom 3x	S A B Analog control	9AA	F 5.5-30Hz
	2 240Vac	B 336x256 pixel		H IP R.264/MC control, Protocol ONVIF Profile S	H	H 25-30Hz
	3 120Vac					

ULISSE MAXI



ULISSE PTZ UNITS

ULISSE MAXI

ULISSE MAXI NETCAM

Video output	Analogue video output	IP video output	
MECHANICAL			
Material	Aluminium and Telescopier	Aluminium and Telescopier	
Horizontal rotation	360°, continuous rotation	360°, continuous rotation	
Vertical rotation	From -2° up to +2°	From -2° up to +2°	
Horizontal speed (variable)	From 0.02°/s up to 100°/s (From 0.02°/s up to 40°/s with Illuminator)	From 0.02°/s up to 100°/s (From 0.02°/s up to 40°/s with Illuminator)	
Tilt speed (variable)	From 0.02°/s up to 20°/s	From 0.02°/s up to 20°/s	
Position accuracy	0.02°	0.02°	
Glass cleaning device	Integrated wiper (not for versions with germanium windows)	Integrated wiper (not for versions with germanium windows)	
Heating's window	Extra clear glass / Germanium for thermal cameras	Extra clear glass / Germanium for thermal cameras	
ELECTRICAL			
Supply voltage/current consumption	230Vac, 0.4A, 100W/0 120Vac, 0.4A, 50/60Hz 240Vac, 4A (9A with LED Illuminator), 100W/0	230Vac, 0.4A, 100W/0 120Vac, 0.4A, 50/60Hz 240Vac, 4A (9A with LED Illuminator), 100W/0	
Power consumption	100W 150-100W max with LED Illuminator in 240Vac 24V, PST static, heating switched off	100W 150-100W max with LED Illuminator in 240Vac 24V, PST static, heating switched off	
SOFTWARE			
Communication protocol	-	ONVIF, Profile S	
Serial communication protocol	AMERICAN DYNAMICS, EMTEC, PANASONIC, PELCO D, VIOBOTIC MACRO	-	
Video compression	-	H.264/MC, MJPEG	
ENVIRONMENT			
Operating temperature	Version with heater: From -10°C (14°F) up to +60°C (140°F)	Version with heater: From -10°C (14°F) up to +60°C (140°F)	
Relative humidity	From 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)	
ULISSE MAXI - CONFIGURATION OPTIONS			
Voltage	Options	Video Output	
IPV	1 230Vac S	W 230Vac and 120Vac, with wiper	A B Analog control 800
	2 240Vac	J 240Vac, with wiper and prearranged for mounting of lens (IP/IRIS Illuminators not included)	
	3 120Vac	E With germanium front window for thermal camera applications	
For a quick breakdown of all available codes, you can also use our PTZ CONFIGURATOR at www.videonics.com			
ULISSE MAXI NETCAM - CONFIGURATION OPTIONS			
Voltage	Options	Video Output	
IPV	1 230Vac S	W 230Vac and 120Vac, with wiper	A H For Network cameras compatible with ONVIF protocol, Profile S, or with built-in telemetry output 800
	2 240Vac	J 240Vac, with wiper and prearranged for mounting of lens (IP/IRIS Illuminators not included)	
	3 120Vac	E With germanium front window for thermal camera applications	

MAXIMUS
MPX SERIES2

EXPLOSION- PROOF PTZ CAMERAS



The IP PTZs from the new MAXIMUS SERIES2 line offer the highest performance level and unbeatable competitiveness for security systems in hazardous O&G, marine and industrial environments.

The MAXIMUS SERIES2 range enables PTZ connection via fiber optic thanks to the SFP module. Models are available with integrated video analysis, with thermal cameras, with dual vision and with built-in IR LED illuminator.

Entirely manufactured in AISI316L stainless steel, the SERIES2 cameras are ideal for use in highly corrosive environments. The high IP degree, IP66/IP67/IP68/IP69, NEMA Type 4X and Type 6P, guarantees complete protection against water and dust entry. All the versions of the PTZ MAXIMUS SERIES2 are explosion-proof certified with an ambient temperature up to +80°C with international certification for use in Zone 1 and 2, Group IIC for gas, Zone 21 and 22, Group IIIC for dust.



OUTDOOR AND INDOOR SECURITY

MAXIMUS MPX SERIES2

EXPLOSION-PROOF PTZ CAMERAS



MAXIMUS MPX SERIES2

CAMERA	SONY FCR-EV7520	DELUX TECHNOLOGY			
Type of camera	Day/Night camera	Day/Night camera			
Image electronic stabilizer	✓	-			
Resolution	Full HD (1920x1080)	Full HD (1920x1080)			
Minimum illumination	Colour: 0.013lx (30 IRE, High sensitivity on) B/W: 0.0005lx (30 IRE, High sensitivity on)	Colour: 0.004lx (F1.4, 30 IRE) B/W: 0.0005lx (F1.4, 30 IRE)			
Zoom	10x (100x with digital zoom)	10x (100x with digital zoom)			
Lens	1/3" from 4.3mm (fixed) up to 120mm (20x), from F1.6 up to F14	1/3" from 4.5mm (fixed) up to 115mm (20x), from F1.6 up to F8.5			
Privacy zones masking	✓ (dynamic masking)	✓			
MECHANICAL					
Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction			
Cable entry	2 holes 1/4" NPT	2 holes 1/4" NPT			
Horizontal rotation	160°, continuous rotation	160°, continuous rotation			
Vertical rotation	From -90° up to +90°	From -90° up to +90°			
Horizontal speed (variable)	From 0.7°/s up to 100°/s	From 0.7°/s up to 100°/s			
TR speed (variable)	From 0.7°/s up to 100°/s	From 0.7°/s up to 100°/s			
Position accuracy	0.82°	0.82°			
ELECTRICAL					
Supply voltage/current consumption	230Vac, 0.5A, 50/60Hz 240Vac, 5A, 50/60Hz 230Vac, 1A, 50/60Hz 230Vac, 0.5A, 50/60Hz 100Vac, 1.3A, 50/60Hz	230Vac, 0.5A, 50/60Hz 240Vac, 5A, 50/60Hz 120Vac, 1A, 50/60Hz 230Vac, 0.5A, 50/60Hz 100Vac, 1.3A, 50/60Hz			
Power consumption	120W max	120W max			
Optical fiber	Not SFP	Not SFP			
SOFTWARE					
Communication protocol	ONVIF, Profile Q, Profile I and Profile T	ONVIF, Profile Q, Profile I and Profile T			
Video compression	H.264/HC, H.265, MPEG4, snapshot JPEG	H.264/HC, H.265, MPEG4, snapshot JPEG			
Video analytics	optional	optional			
Cybersecurity	✓	✓			
ENVIRONMENT					
Certification temperature	From -40°C (-40°F) up to +80°C (+176°F)	From -40°C (-40°F) up to +80°C (+176°F)			
Relative humidity	From 5% up to 95%	From 5% up to 95%			
Marine Certification	Lloyd's Register Marine Type Approval (with MAXIMUS HSE communication box or with FM1010 fibre)	Lloyd's Register Marine Type Approval (with MAXIMUS HSE communication box or with FM1010 fibre)			
MAXIMUS MPX SERIES2 - CONFIGURATION OPTIONS					
	Voltage	Camera	Temperature class and ambient temperature	Video analytics	ONVIF Profiles
MPX80	1 230Vac	1 Super low-light Day/Night camera, Full HD 1080p, 10x, with Dual-IP technology	A TA, TA -40°C/-40°F or +176°C	B Without integrated video analysis (with HSE/STEC ANALYTICS)	00 Complies with ONVIF Profile Q, Profile I and Profile T
	2 240Vac	2 SONY FCR-EV7520 camera, Full HD 1080p, 10x	D TA -40°C/-40°F	V With integrated video analysis (HSE/STEC ANALYTICS)	01 Complies with ONVIF Profile I and Profile T
	3 120Vac		C ATX -80°C/-94°F SAC 0x -80°C/-94°F TL -34 -40°C/-39°F or +87°C TL -34 -40°C/-39°F or +176°C		
	5 220Vac				
	4 100Vac				

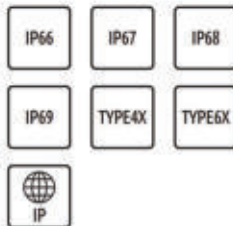
MAXIMUS
MVX & MVXT

EXPLOSION-PROOF CAMERAS



The MAXIMUS MVX range of cameras offers effective video surveillance and process control in critical environments where the air is potentially explosive due to the presence of flammable gases or dust. Hazardous areas can frequently be found in the Oil & Gas and industrial sectors. The MVX range meets the most stringent international standards, achieving the required certification levels for use in Zones 1 and 2 (Gas), Group IIC T5 and 6, and Zones 21 and 22 (Dust), Group IIC T100°C and T85°C.

The extensive temperature range of certification, from -60°C to +65°C with a sophisticated cold start system, offers the possibility of working in extreme environments.



MAXIMUS MPX SERIES2



EXPLOSION-PROOF CAMERAS

MAXIMUS MVX

MAXIMUS MVXT

Video output	IP video output	IP video output	IP video output	Analog video output
CAMERA	SONY FCB-EV7520 CAMERERA	DELUX TECHNOLOGY	IP	ANALOG
Type of camera	Day/Night camera	Day/Night camera	Thermal camera	Thermal camera
Radiometric analysis	-	-	✓	-
Image electronic stabilizer	✓	-	-	-
Resolution	Full HD (1920x1080)	Full HD (1920x1080)	720x480 (interpolated resolution)	PAL 720x576 (interpolated resolution), NTSC 720x480 (interpolated resolution)
Minimum illumination	Colour: 0.001lx (30 IRE, High sensitivity) w/ B/W: 0.0005lx (30 IRE, High sensitivity) w	Colour: 0.001lx (F1.8, 30 IRE) B/W: 0.0005lx (F1.8, 30 IRE)	-	-
Zoom	7x (10x with digital zoom)	7x (10x with digital zoom)	2x, 4x (120x250) 2x, 4x, 8x (340x512)	2x, 4x (120x250) 2x, 4x, 8x (340x512)
Lens	8x from 4.5mm (wide) up to 125mm (tele), from F1.8 up to F14	8x from 4.5mm (wide) up to 135mm (tele), from F1.6 up to F8.5	9mm, 13mm, 16mm, 25mm, 35mm, 50mm, 60mm	9mm, 13mm, 17mm, 25mm, 35mm, 50mm, 60mm
Privacy zones masking	✓ (dynamic masking)	✓	-	-
MECHANICAL				
Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction	AISI 316L stainless steel construction	AISI 316L stainless steel construction
Cable glands	Cable gland with gasket Ex d 3/4" NPT and 4x1/8" (1/2"/3/8") preinstalled multipolar armored cable or with 4x 1/2"/3/8" (1/2"/3/8") cable tail (for installation with conduit, conduit sealing fitting and conduit not included)	Cable gland with gasket Ex d 3/4" NPT and 4x1/8" (1/2"/3/8") preinstalled multipolar armored cable or with 4x 1/2"/3/8" (1/2"/3/8") cable tail (for installation with conduit, conduit sealing fitting and conduit not included)	Cable gland with gasket Ex d 3/4" NPT and 4x1/8" (1/2"/3/8") preinstalled multipolar armored cable or with 4x 1/2"/3/8" (1/2"/3/8") cable tail (for installation with conduit, conduit sealing fitting and conduit not included)	Cable gland with gasket Ex d 3/4" NPT and 4x1/8" (1/2"/3/8") preinstalled multipolar armored cable or with 4x 1/2"/3/8" (1/2"/3/8") cable tail (for installation with conduit, conduit sealing fitting and conduit not included)
Glass cleaning device	Integrated wiper	Integrated wiper	-	-
ELECTRICAL				
Supply voltage/current consumption	24Vdc, 2.2A, 50W/40W 12Vdc, 2.2A 12Vdc, 1.5A	24Vdc, 2.2A, 50W/40W 24Vdc, 2.2A 12Vdc, 1.5A	24Vdc, 2.2A, 50W/40W 24Vdc, 2.2A 12Vdc, 1.5A	24Vdc, 2.2A, 50W/40W 24Vdc, 2.2A 12Vdc, 1.5A
Power consumption	50W max	50W max	50W max	10W max
SOFTWARE				
Communication protocol	ONVIF, Profile G, Profile S and Profile T	ONVIF, Profile G, Profile S and Profile T	ONVIF, Profile G, Profile S and Profile T ONVIF Thermal Service	PROXIMIC, PELCO-D, VIDEOEOT MACRO
Serial communication protocol	-	-	-	-
Video compression	H.264/HC, H.265, MPEG4, snapshot JPEG	H.264/HC, H.265, MPEG4, snapshot JPEG	H.264/HC, H.265, MPEG4, snapshot JPEG	-
Cybersecurity	✓	✓	✓	-
ENVIRONMENT				
Certification temperature	from -60°C (-FT) up to +65°C (147°F)	from -60°C (-FT) up to +65°C (147°F)	from -60°C (-FT) up to +65°C (147°F)	from -60°C (-FT) up to +65°C (147°F)
Relative humidity	From 5% up to 95%	From 5% up to 95%	From 5% up to 95%	From 5% up to 95%
Marine Certification	Lloyd's Register Marine Type Approval (only if used with the filter accessory PMS10)	Lloyd's Register Marine Type Approval (only if used with the filter accessory PMS10)	Lloyd's Register Marine Type Approval (only if used with the filter accessory PMS10)	Lloyd's Register Marine Type Approval (only if used with the filter accessory PMS10)



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