VIDEOTEC

Witness the Evolution of Video Security

VIDEOTEC

OUTDOOR VIDEO SECURITY
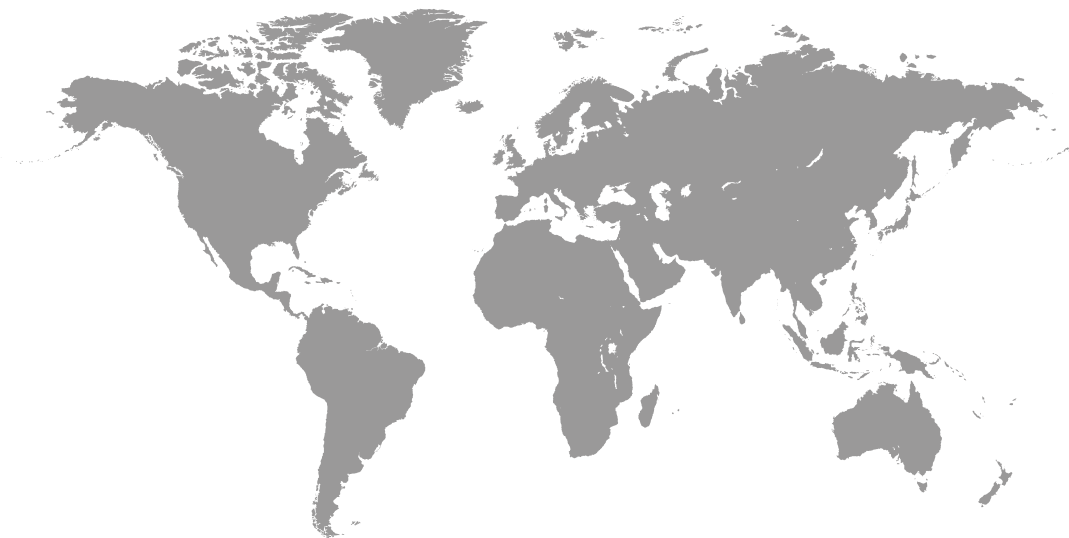
In over 35 years in the video surveillance sector, Videotec has designed and developed a great number of products to monitor any type of external environment. Today, our company is one of the most respected suppliers in the industry.

HISTORY

Thanks to considerable investments in R&D, Videotec continues to offer innovation, with a constant eye on the future and new technologies. Videotec holds 19 international patents, which have truly benefitted the world of security.

INNOVATION

As a unique firm built to shape and enhance a select market, we strive relentlessly to boost our clients' growth and satisfaction with incessant efforts to cultivate our team's expertise, professionalism, and creativity. Thanks to our focus on clients' prosperity and well-being, all of us are better off.

MISSION

Videotec products are a perfect blend of high performance, easy installation, durability and great design, and their ISO 9001:2015 certification means that quality is guaranteed. Videotec is unique in its continuous effort to achieve the latest technological breakthroughs in order to satisfy clients and grow the business.

PRODUCT LINES

Videotec runs its international operations from its production and logistics headquarters in Italy. It is supported by three branches, four offices abroad and numerous other selected partners. Thanks to the well-structured distribution network and expert staff, Videotec can offer excellent pre- and post-sale service right across the world.
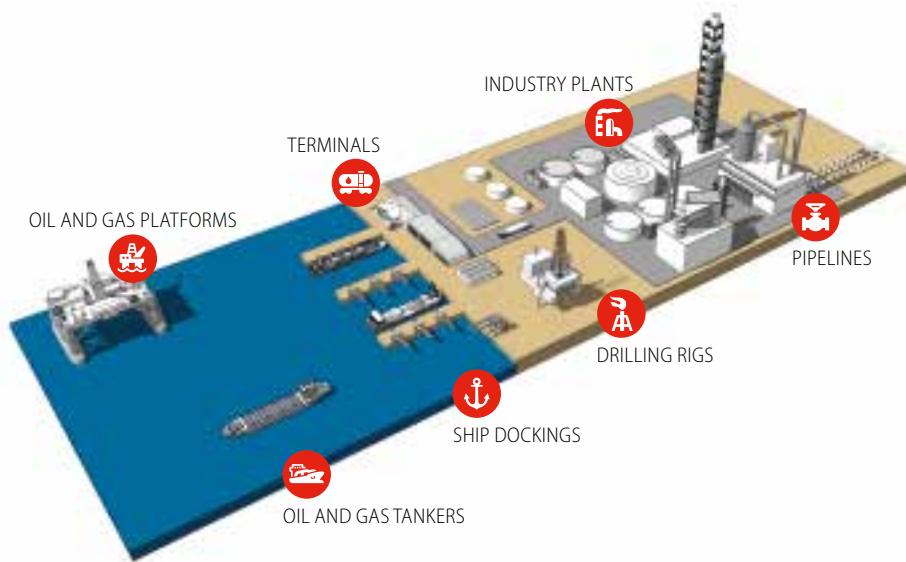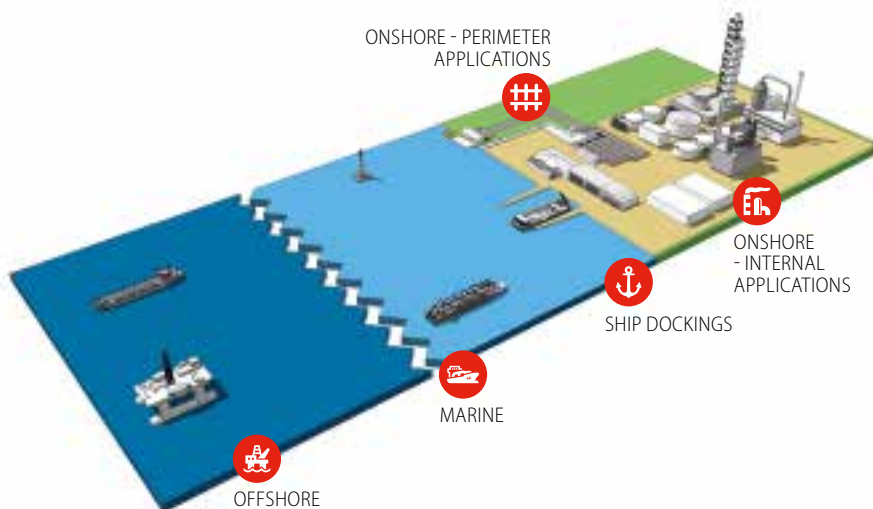
GLOBAL COMPANY

Videotec's specialized and certified products fulfil the requirements of the most complex video surveillance applications in all types of industrial sectors: energy, maritime and naval, transport, and critical infrastructures.

MARKETS

Oil and Gas

The wide range of specialized and certified ex-proof products provides the highest degree of protection and the immediate situational awareness in areas with risk of explosion.The operator can monitor critical areas and constantly receive detailed information, quickly detect abnormal and dangerous situations and take immediate decisions, reducing the chance of accidents.

INDUSTRY PLANTS

TERMINALS

OIL AND GAS PLATFORMS

PIPELINES

DRILLING RIGS

SHIP DOCKINGS

OIL AND GAS TANKERS

Marine Onshore Offshore

Videotec has the global expertise to address the complex issues of maritime and industrial applications with a wide range of specialized products for professional video surveillance. Designed to withstand the most corrosive atmosphere, these AISI316L PTZ cameras and fixed cameras can be installed on board of all types of vessels such as oil tankers, container ships, LNG carriers, etc.

ONSHORE - PERIMETER APPLICATIONS

ONSHORE - INTERNAL APPLICATIONS

SHIP DOCKINGS

MARINE

OFFSHORE
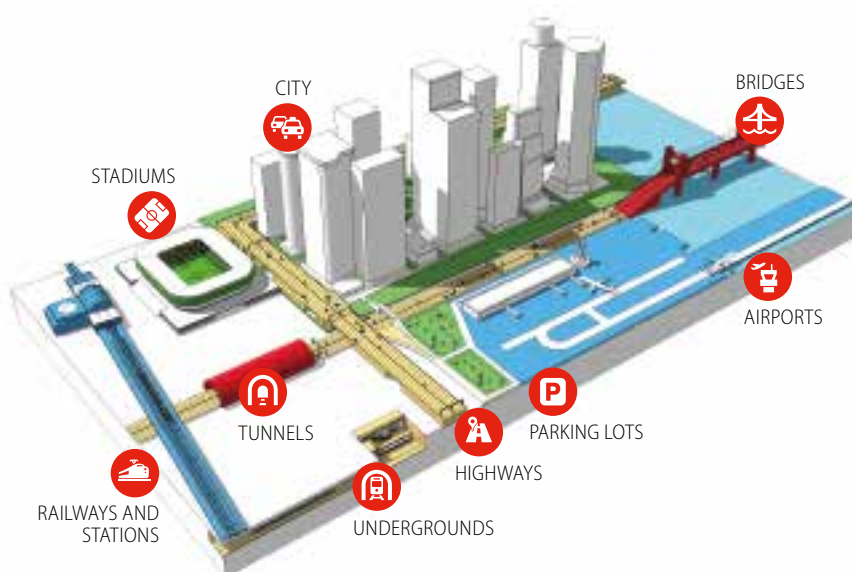
Critical infrastructure and Transportation

Videotec is able to satisfy even the most complex needs related to critical infrastructures, road and motorway traffic monitoring, to public urban security and dynamic and complex outdoor environments.Clear and detailed day and night images, even on long distances, non-stop operation with zero maintaining, preset accuracy, immediate remote feedback, simplified management with remote updates, easy plug and play installation, open architecture for IP management.

CITY

BRIDGES

STADIUMS

AIRPORTS

TUNNELS

PARKING LOTS

HIGHWAYS

RAILWAYS AND STATIONS

UNDERGROUNDS

VIDEOTEC ANALYTICS

Video analytics

The video analysis technology, integrated into VIDEOTEC cameras, offers an end-to-end solution for preventative detection of intrusions in outdoor monitoring applications of critical infrastructures, industrial sites and perimeters.

VIDEOTEC ANALYTICS is the result of more than 10 years of research and design, carried out by a team of R&D professionals, cooperating together with prestigious international universities and research centres.

The advantages of VIDEOTEC ANALYTICS

- Maximum preventative anti-intrusion efficiency: every part of the system is designed and automated to allow immediate and preventative actions against any possible threat.
- A reduction in human error and therefore costs.
- Reduced storage space needed: only necessary footage is recorded.
- Optimal external operation in the most critical and complex atmospheric conditions.
- VIDEOTEC ANALYTICS enables the geolocation function: **GeoMove&Track**. This function allows a form of cooperation between two VIDEOTEC cameras via an intelligent language to create advanced actions also on the more common video surveillance systems. This function offers the benefit of having a complete, turn-key positioning and tracking solution, guaranteed by VIDEOTEC.
- Unbeatable detection performance even at long distances, thanks to the analysis of detail-rich high-definition images.
- Reduced time and effort needed to monitor, detect and search the recordings for anomalous events. The resulting security system is highly efficient, reliable and convenient.

How does VIDEOTEC ANALYTICS work

Every time there is an alarm, the auto-tracking automatically activates and event metadata is sent to the VMS via the ONVIF protocol.

Simultaneously, the security operators are then alerted and recording starts.

The camera keeps the moving target at the centre of the frame and zooms in on the target to make recognition easier.

The metadata sent to the VMS system can be used to frame the target with a bounding box for clear identification of the subject or it can be used to activate alarms or begin recording.

Bounding boxes are visible on VMS systems that have ONVIF Media 2 Profile (contact VIDEOTEC for list of compatible VMS systems).

Calibration

The operator can calibrate the scene's point of view, so it is possible to render the targets in 3D.

Target classification

After carrying out a simple calibration procedure, targets can be put into three categories: generic objects, person, vehicle.

Targets will then trigger an alarm based on their size and so false alarms as a result of irrelevant objects appearing in the frame are drastically reduced.

All system calibration and configuration are carried out via a very intuitive web interface.

Rules

Depending on the rules set by the user, an alarm is displayed and auto-tracking activated if an object enters, exits, or appears or stops more than allowed in an area. Any violation of these rules will activate auto-tracking and other scheduled actions.

Up to ten rules per preset can be quickly configured.
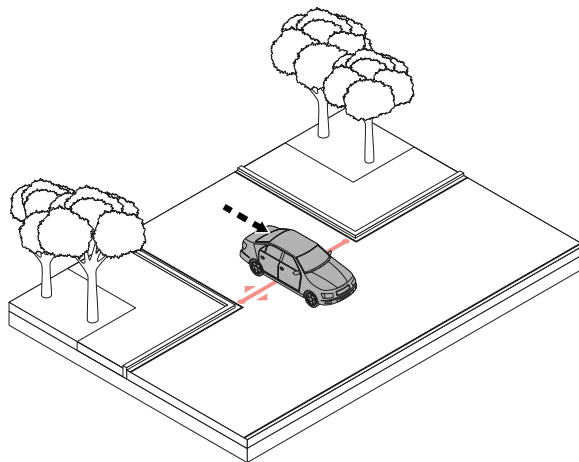
Line crossing

The target triggers an alarm if it crosses the line in one direction or multiple directions.
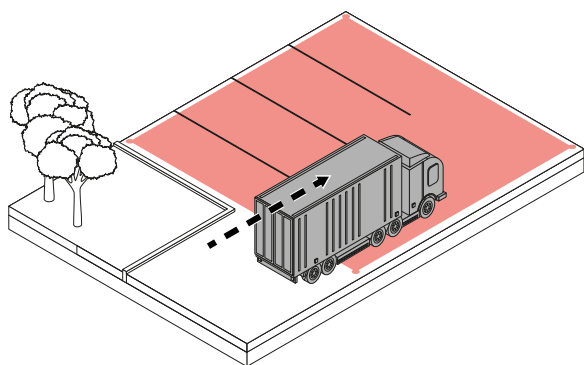
Entering/leaving area

The target triggers an alarm if it enters or leaves a specific area.
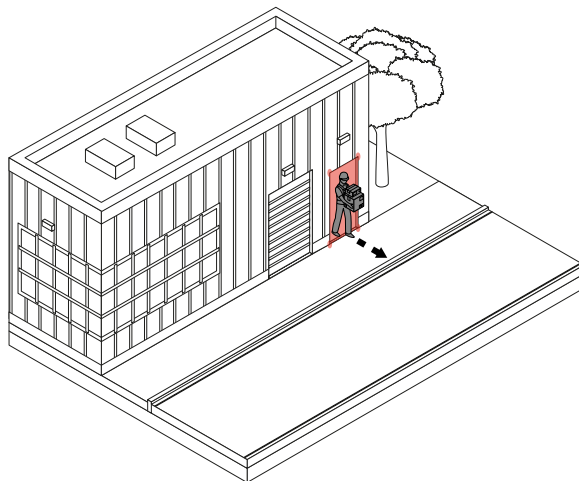
Appearing in area

The target triggers an alarm if it appears in a specific area.

Loitering
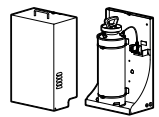
The target triggers an alarm if it stays in a specific area longer than a defined time.

Detection mask

Disables detection activity in a part of the image.

ULISSE PTZ CAMERAS AND UNITS

ULISSE EVO

IP66 IP67 IP68	TYPE 4X TYPE 6P	IK10	IP

Onvif® | QST

VIDEO TEC analytics

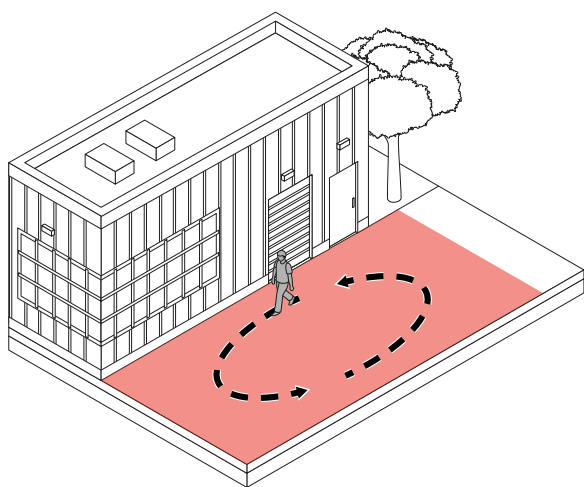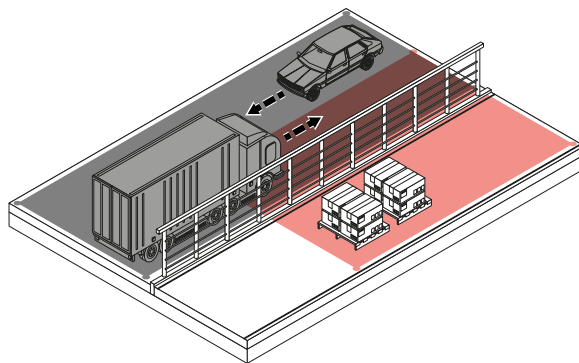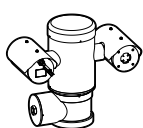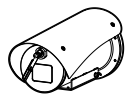PTZ ULISSE EVO cameras combine high technology, design and competitiveness and guarantee safe video surveillance in town centres, critical infrastructures, transport and marine applications.

ULISSE EVO cameras are unbeatable for their exceptionally bright images even in difficult lighting conditions and provide video recordings with clear details and vivid colours by day and by night. ULISSE EVO is available with an integrated super low-light camera with 30x motorised zoom, with Delux video encoding technology. Alternatively, the model with Sony FCB-EV7520 camera offers an electronic image stabiliser, advanced HLC technology and dynamic masking of privacy zones. Models available with integrated video analysis.

ULISSE EVO DUAL is a PTZ network positioning system equipped with advanced technology that provides two independent videos simultaneously from a high-sensitivity visual camera and a thermal camera. These are perfectly aligned with the movements of the PTZ.

The ULISSE EVO THERMAL version integrates a thermal camera with radiometric functions.

The extremely robust design and the light weight simplify installation operations. This PTZ offers unbeatable resistance to wind in continuous operation up to 230km/h, impact (IK10) and maintains maximum efficiency with temperatures from -40°C to +65°C.

		ULISSE EVO		ULISSE EVO THERMAL	ULISSE EVO DUAL
	Version	ULISSE EVO with SONY FCB-EV7520 camera	ULISSE EVO with DELUX technology		
Camera	Type of camera	Day/Night camera		Thermal camera	Thermal camera + Day/Night camera
	Radiometric analysis	–		√	–
	Image electronic stabilizer	√	–	–	√
	Resolution	Full HD (1920x1080)		720x480 (interpolated solution)	Thermal camera: 720x480 (interpolated solution) Day/Night: Full HD (1920x1080)
	Minimum illumination	Colour: 0.0013lx (50 IRE, High sensitivity on) B/W: 0.0008lx (30 IRE, High sensitivity on)	Colour: 0.006lx (F1.6, 30 IRE) B/W: 0.0006lx (F1.6, 30 IRE)	–	Day/Night Colour: 0.0013lx (50 IRE, High sensitivity on) B/W: 0.0008lx (30 IRE, High sensitivity on)
	Zoom	30x (360x with digital zoom)	30x (480x with digital zoom)	2x, 4x (336x256) 2x, 4x, 8x (640x512)	Thermal camera (digital Zoom): 8x Day/Night: 30x (360x with digital zoom)
	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	9mm, 13mm, 19mm, 25mm, 35mm	Thermal camera: 6.3mm, 9.1mm, 18mm, 25mm, 35mm, 50mm Day/Night: f= from 4.3mm (wide) up to 129mm (tele), from F1.6 up to F14
	Privacy zones masking	√ (dynamic masking)	√	√	√ (dynamic masking)
Mechanical	Material	Constructed from aluminium and tecnopolymer		Constructed from aluminium and tecnopolymer	Constructed from aluminium and tecnopolymer
	Unit weight	7.1kg (15.6lb) (7.4kg (16.3lb) with LED illuminator)		7.1kg (15.6lb)	7.4kg (16.3lb)
	Horizontal 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°
	Horizontal speed (variable)	From 0.02°/s up to 250°/s		From 0.02°/s up to 250°/s	From 0.02°/s up to 250°/s
	Tilt speed (variable)	From 0.1°/s up to 250°/s		From 0.1°/s up to 250°/s	From 0.1°/s up to 250°/s
	Position accuracy	0.05°		0.05°	0.05°
Electrical	Supply voltage/Current consumption	24Vac, 5A, 50/60Hz 24Vdc, 5A PoE 90W		24Vac, 5A, 50/60Hz 24Vdc, 5A PoE 90W	24Vac, 5A, 50/60Hz 24Vdc, 5A PoE 90W (complies with standard IEEE802.3bt CLASS 8)
	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)
Software	Communication protocol	ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP		ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP	ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP
	Cybersecurity	√		√	√
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4		H.264/AVC, MJPEG, JPEG, MPEG4	H.264/AVC, MJPEG, JPEG, MPEG4
	Video analytics	Versions available with VIDEOTEC ANALYTICS		–	–
Environment	Operating temperature	From -40°C (-40°F) up to +65°C (149°F) (continuous working)		From -40°C (-40°F) up to +65°C (149°F) (continuous working)	From -40°C (-40°F) up to +65°C (149°F) (continuous working)
	Relative humidity	From 5% up to 95%		From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67, IP68		IP66, IP67, IP68	IP66, IP67, IP68
	Compliance to railway applications	√		√	√
	Marine Certification	Lloyd's Register Marine Type Approval		Lloyd's Register Marine Type Approval	–
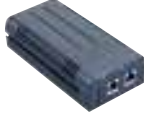
ULISSE EVO - CONFIGURATION OPTIONS

	VOLTAGE	CAMERA	COLOUR	VIDEO ANALYTICS	REVISION
UE	**2** 24Vac, 24Vdc, PoE 90W	**1** Super low-light Day/Night camera, FULL HD 1080p, 30x, with DELUX technology	**A** Grey-white (RAL9002)	**000** Without integrated video analytics (without VIDEOTEC ANALYTICS)	**A** Complies with ONVIF, Profile Q, Profile S and Profile T
		2 SONY FCB-EV7520 camera, FULL HD 1080p, 30x	**F** Black (RAL9005)	**V00** With integrated video analytics (VIDEOTEC ANALYTICS)	**J** Complies with ONVIF, Profile S and Profile T

ULISSE EVO THERMAL - CONFIGURATION OPTIONS

	VOLTAGE	CAMERA	COLOUR	RADIOMETRY	REVISION	FREQUENCY
UET	**2** 24Vac, 24Vdc, PoE 90W	**I** 9.3° HFOV, Thermal camera 35mm, 336x256	**A** Grey-white (RAL9002)	**000** Thermal camera with radiometric functions	**A**	**-** 7.5Hz
		L 13° HFOV, Thermal camera 25mm, 336x256	**F** Black (RAL9005)	**0R0** Thermal camera with advanced radiometric functions		**H** 30Hz
		Z 17° HFOV, Thermal camera 19mm, 336x256				
		M 25° HFOV, Thermal camera 13mm, 336x256				
		Q 35° HFOV, Thermal camera 9mm, 336x256				
		D 18° HFOV, Thermal camera 35mm, 640x512				
		E 25° HFOV, Thermal camera 25mm, 640x512				
		U 32° HFOV, Thermal camera 19mm, 640x512				
		G 45° HFOV, Thermal camera 13mm, 640x512				
		H 69° HFOV, Thermal camera 9mm, 640x512				

ULISSE EVO DUAL - CONFIGURATION OPTIONS

	VOLTAGE	DAY/NIGHT CAMERA	THERMAL CAMERA	COLOUR		REVISION	FREQUENCY
UED	**2** 24Vac, 24Vdc, PoE 90W	**2** SONY FCB-EV7520 camera, FULL HD 1080p, 30x	**C** 34° HFOV, Thermal camera 6.3mm, 320x256	**A** Grey-white (RAL9002)	**000**	**A** Complies with ONVIF, Profile Q, Profile S and Profile T	**-** 7.5Hz
			D 24° HFOV, Thermal camera 9.1mm, 320x256			**J** Complies with ONVIF, Profile S and Profile T	**H** 30Hz
			F 12° HFOV, Thermal camera 18mm, 320x256				
			I 50° HFOV, Thermal camera 8.7mm, 640x512				
			L 32° HFOV, Thermal camera 14mm, 640x512				
			N 18° HFOV, Thermal camera 24.4mm, 640x512				

For a quick breakdown of all available codes, you can also use our PTZ CONFIGURATOR at www.videotec.com

	ULISSE EVO - ACCESSORIES	ULISSE EVO	ULISSE EVO THERMAL	ULISSE EVO DUAL
COMB	**Communication box in polycarbonate** Designed to work exclusively with Videotec products and accessories 1 SFP port, MSA compliant, Fast Ethernet (100BASE-FX), for fiber optic connection (splice tray included in the product) 3 RJ45 ports, Fast Ethernet (10BASE-T/100BASE-T) NEWS 2021	√	√	√
FM1010	**EMC filter for Marine certification** The filter must be connected to the power line of the equipment The filter is not explosion-proof certified Implement adequate protection if used in potentially explosive classified environments (e.g. Atex) Electrical data: from 0 up to 250V DC/AC 50/60 Hz, 6A	√	√	√
OHEP90INJ	**PoE (90w) Power Injector with one channel** For installations indoors (OHEP90INJ) For installations outdoors (OHEP90INJO)	√	√	√
SURGEPR	**Lightning surge protection device** For railway applications (in compliance with EN50121-4)	√	√	√
UEI	**Illuminator for ULISSE EVO** Colours: RAL9002, RAL9005 Wavelengths: 850nm, 940nm, white light	√	–	–
WASPT	**Washer pump and 5 or 23 liter tank** Polyethylene tank with stainless steel cage Delivery head: 5m (16ft), 11m (36ft) or 30m (98ft) Versions with alarm for the lack of liquid in the tank Also for third-party products Operating temperature: from -10°C (14°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac	√	–	√
WASNX	**Washer pump with solenoid valve for stainless steel products** Enclosure made of stainless steel AISI 316L Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for Videotec products or with third-party products Operating temperature from -20°C (-4°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac	√	–	√

ULISSE EVO - BRACKETS			ULISSE EVO	ULISSE EVO THERMAL	ULISSE EVO DUAL
UEBP0		**Parapet bracket with internal cable channel for ULISSE EVO** Standard colours: RAL9002 (UEBP0AA), RAL9005 (UEBP0FA)	√	√	√
UEBP		**Parapet bracket with quick connectors for ULISSE EVO** RJ45 (Ethernet and PoE)+4 poles with screw terminal or 7 poles to weld (power supply and I/O) Standard colours: RAL9002 (UEBP4AA), RAL9005 (UEBP4FA)	√	√	√
UEBW		**Wall mount bracket for ULISSE EVO** Standard colours: RAL9002 (UEBWAA), RAL9005 (UEBWFA)	√	√	√
UEAP		**Pole mount adaptor** Made of AISI 316L electropolished stainless steel For pole diameters: from 60mm (2.36in) up to 200mm (7.9in) Dimensions: 121x85mm (4.7x3.3in)	√	√	√
UEAC		**Corner mount adaptor** Made of AISI 316L electropolished stainless steel Dimensions: 120x220mm (4.7x8.7in)	√	√	√
UEAW		**Counter-plate** Made of AISI 316L electropolished stainless steel Dimensions: 200x200mm (7.9x7.9in)	√	√	√

ULISSE PTZ CAMERAS AND UNITS

ULISSE

IP66 TYPE 4X IP

ONVIF® | S

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

ULISSE2 is a Full-IP PTZ unit that boasts outstanding functional performance and an ability to manage all third-party ONVIF-S IP cameras. This is done by directly accessing the installed camera via a browser, with a single IP address, allowing control over configuration and diagnostics. ULISSE2 is also compatible with 4K cameras.

ULISSE MAXI/ULISSE MAXI NETCAM is a robust and efficient PTZ camera unit 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 of up to almost 8 kilos.

There are several models available that cater to all requirements, depending on the size of the camera and lenses, or whether a thermal camera is necessary. To guarantee detailed images are captured even at night, there are units available with built-in LED illuminators, with infrared or white light. A wiper option is also always available.

		ULISSE	ULISSE2	ULISSE MAXI	ULISSE MAXI NETCAM
	Video output	Analogue video output	IP video output	Analogue video output	IP video output
Mechanical	Material	Constructed from aluminium and tecnopolymer	Constructed from aluminium and tecnopolymer	Constructed from aluminium and tecnopolymer	Constructed from aluminium and tecnopolymer
	Horizontal rotation	360°, continuous rotation	360°, continuous rotation	360°, continuous rotation	360°, continuous rotation
	Vertical rotation	From -40° up to +90°	From -40° up to +90°	From -20° up to +45°	From -20° up to +45°
	Horizontal speed (variable)	From 0.02°/s up to 100°/s (from 0.02°/s up to 40°/s with illuminators)	From 0.02°/s up to 100°/s (from 0.02°/s up to 50°/s with illuminators)	From 0.02°/s up to 20°/s	From 0.02°/s up to 20°/s
	Tilt speed (variable)	From 0.02°/s up to 40°/s (from 0.02°/s up to 30°/s with illuminators)	From 0.02°/s up to 50°/s (from 0.02°/s up to 50°/s with illuminators)	From 0.02°/s up to 20°/s	From 0.02°/s up to 20°/s
	Position accuracy	0.02°	0.02°	0.02°	0.02°
	Glass cleaning device	Versions with built-in wiper	Integrated wiper (not for versions with germanium window)	Integrated wiper (not for versions with germanium window)	Integrated wiper (not for versions with germanium window)
	Housing's window	Extra clear glass Germanium	Extra clear glass Germanium	Extra clear glass Germanium	Extra clear glass Germanium
Electrical	Supply voltage/Current consumption	230Vac, 0.4A, 50/60Hz 120Vac, 0.8A, 50/60Hz 24Vac, 4A (8A, with LED illuminators), 50/60Hz	230Vac , 1.1A, 50/60Hz 120Vac , 2A, 50/60Hz 24Vac , 10A, 50/60Hz	230Vac, 0.4A, 50/60Hz 120Vac, 0.8A, 50/60Hz 24Vac, 4A (8A, with LED illuminators), 50/60Hz	230Vac, 0.4A, 50/60Hz 120Vac, 0.8A, 50/60Hz 24Vac, 4A (8A, with LED illuminators), 50/60Hz
	Power consumption	Version with LED illuminators: 190W max Version without LED illuminators: 100W max	Version with LED illuminators: 157W max Version without LED illuminators: 117W max	Version with LED illuminators: 190W max Version without LED illuminators: 100W max	Version with LED illuminators: 190W max Version without LED illuminators: 100W max
Software	Communication protocol	–	ONVIF, Profile S	–	ONVIF, Profile S
	Serial communication protocol	AMERICAN DYNAMICS, ERNITEC, PANASONIC, PELCO D, VIDEOTEC MACRO	–	AMERICAN DYNAMICS, ERNITEC, PANASONIC, PELCO D, VIDEOTEC MACRO	–
	Video compression	–	H.264/AVC, MJPEG	–	H.264/AVC, MJPEG
Environment	Operating temperature	Version with heater: from -20°C (-4°F) up to +60°C (140°F) Version with reinforced heater: from -30°C (-22°F) up to +60°C (140°F)	Version with heater: from -40°C (-40°F) up to +65°C (149°F)	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)	From 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	IP protection degree	IP66	IP66	IP66	IP66

ULISSE - CONFIGURATION OPTIONS

	VOLTAGE	DAY/NIGHT CAMERA		OPTIONS		VIDEO OUTPUT	
UPT	**1** 230Vac	**S** Without camera	**V**	**S** Without accessories	**A**	**0** Analog control	**00E**
	2 24Vac			**W** With wiper			
	3 120Vac			**K** With brackets for UPTIRN (only 24Vac, illuminators not included)			
				J With wiper and brackets for UPTIRN (only 24Vac, illuminators not included)			
				G With germanium front window for thermal camera applications			

ULISSE2 - CONFIGURATION OPTIONS

	VOLTAGE	CAMERA	OPTIONS	
UPTB	**1** 230Vac	**S** Without camera	**W** With wiper	**A00A**
	2 24Vac		**G** With Ø66mm germanium window for thermal cameras	
	3 120Vac		**T** With Ø61mm germanium window for thermal cameras	

ULISSE MAXI - CONFIGURATION OPTIONS

	VOLTAGE		OPTIONS		VIDEO OUTPUT	
UPT	**1** 230Vac	**SL**	**W** 230Vac and 120Vac, with wiper	**A**	**0** Analog control	**00E**
	2 24Vac		**J** 24Vac, with wiper and prearrangement for mounting of two UPTIRN (illuminators not included)			
	3 120Vac		**G** With germanium front window for thermal camera applications			

ULISSE MAXI NETCAM - CONFIGURATION OPTIONS

	VOLTAGE		OPTIONS		VIDEO OUTPUT	
UPT	**1** 230Vac	**SL**	**W** 230Vac and 120Vac, with wiper	**A**	**N** For Network cameras compatible with ONVIF protocol, Profile S, or with built-in telemetry output	**00E**
	2 24Vac		**J** 24Vac, with wiper and prearrangement for mounting of two UPTIRN (illuminators not included)			
	3 120Vac		**G** 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.videotec.com

ULISSE PTZ CAMERAS AND
UNITS

ULISSE RADICAL

IP66 TYPE 4X IP

ONVIF® | S

ULISSE RADICAL is a ready-to-use, Full HD, network PTZ camera system that unites exceptional lens and camera combinations, and is pre-configured and pre-assembled in the factory to ensure that it works perfectly, with a simplified installation process.

The lens and camera are pre-configured during the production phase so the user needs only to connect it to a power supply and network. Then, just a couple of clicks are required to complete the simple final setup, adapting it to the user's requirements.

With the THERMAL model, the PTZs can detect people and objects across a large visual range and in the most difficult environmental conditions, such as varying levels of light (including total darkness), or where there is thick smoke, rain and dust.

The ULISSE RADICAL PTZ range guarantees the very best levels of constant surveillance in security applications such as airports and military installations, around perimeters and borders, in coastal and maritime zones, on motorways, in tunnels and for environmental monitoring activities and fire detection.

		ULISSE RADICAL	ULISSE RADICAL THERMAL	
	Version	ULISSE RADICAL 33x	IP version	Analog version
	Video output	IP video output	IP video output	Analogue video output
Camera	Type of camera	Day/Night camera	Thermal camera 640x512 (7.5-8.3Hz, 25-30Hz) Thermal camera 336x256 (7.5-8.3Hz, 25-30Hz)	
Camera	Resolution	Full HD (1920x1080)	Full D1 (720x576 PAL, 720x480 NTSC)	
Camera	Zoom	33x	3x (continuous zoom), digital zoom up to 8x, 24x total zoom	
Camera	Lens	f= from 15.2mm up to 500mm, F3.0 (Thermal compensation system and Visible Cut Filter)	f= from 35 up to 105mm, F1.6	
Mechanical	Material	Constructed from aluminium and tecnopolymer	Constructed from aluminium and tecnopolymer	
Mechanical	Horizontal rotation	360°, continuous rotation	360°, continuous rotation	
Mechanical	Vertical rotation	From +45° up to -20°	From +90° up to -40°	
Mechanical	Horizontal speed (variable)	From 0.02°/s up to 20°/s	From 0.02°/s up to 100°/s	
Mechanical	Tilt speed (variable)	From 0.02°/s up to 20°/s	From 0.02°/s up to 50°/s	
Mechanical	Position accuracy	0.02°	0.02°	
Mechanical	Glass cleaning device	Integrated wiper	–	
Electrical	Supply voltage/Current consumption	230Vac, 0.4A, 50/60Hz 120Vac, 0.8A, 50/60Hz 24Vac, 4A, 50/60Hz	230Vac, 0.4A, 50/60Hz 120Vac, 0.8A, 50/60Hz 24Vac, 4A, 50/60Hz	
Electrical	Power consumption	Version with LED illuminators: 190W max Version without LED illuminators: 100W max	100W max	
Software	Communication protocol	ONVIF, Profile S	ONVIF, Profile S	AMERICAN DYNAMICS, ERNITEC, PANASONIC, PELCO D, VIDEOTEC MACRO
Software	Video compression	H.264/AVC, MJPEG	H.264/AVC, MJPEG	–
Enviroment	Operating temperature	From -30°C (-22°F) up to +60°C (140°F)	From -40°C (-40°F) up to +65°C (149°F)	
Enviroment	Relative humidity	From 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)	
Enviroment	IP protection degree	IP66	IP66	

ULISSE RADICAL - CONFIGURATION OPTIONS							
	VOLTAGE	**CAMERA**	**LENSES**	**OPTIONS**		**VIDEO OUTPUT**	
UPK	**1** 230Vac	**P** Full HD 60fps Sensor CMOS 1/2.8"	**E** Zoom 33x with Thermal Compensation and Visible Cut Filter	**W** With wiper and counterweights	**A**	**N** ONVIF protocol, Profile S	**00B**
	2 24Vac			**J** With wiper, counterweights and prearranged for UPTIRN (only 24Vac, illuminators not included)			
	3 120Vac						

ULISSE RADICAL THERMAL - CONFIGURATION OPTIONS							
	VOLTAGE	**THERMAL CAMERA**	**LENS**			**VIDEO OUTPUT**	**FREQUENCY**
UPKT	**1** 230Vac	**A** 640X512 pixel	**F** Thermal zoom 3x	**S**	**A**	**0** Analog control	**00A** **-** 7.5-8.3Hz
	2 24Vac	**B** 336x256 pixel				**N** IP H.264/AVC control, Protocol ONVIF Profile S	**H** 25-30Hz
	3 120Vac						

For a quick breakdown of all available codes, you can also use our PTZ CONFIGURATOR at www.videotec.com

ULISSE PTZ CAMERAS AND UNITS

ULISSE COMPACT

IP66 TYPE 4X IP

ONVIF® | QST

ULISSE COMPACT DELUX is a Full HD network camera featuring the new imaging and encoding technology for outdoor surveillance that generates incredibly vivid and clear colour video images day or night.

This exceptional PTZ is the ideal choice for every monitoring need outside infrastructures and residential centres, of road and motorway traffic, and complex situations in general.

The DELUX imaging and encoder technology, thanks to the superior light sensitivity of the sensor, can make bright recordings with sharp, clearly defined colours in the very low light conditions typically found at night, working at as low as 0.006 lux (0.0006 lux in black and white).

Amongst the available options are integrated LED illuminators, a wiper to clean the glass and a large range of tanks with washer pumps, with various capacities and delivery heads.
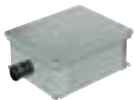
		ULISSE COMPACT DELUX
	Video output	IP video output
Camera	Type of camera	Day/Night camera
	Resolution	Full HD (1920x1080)
	Minimum illumination	Colour: 0.006lx B/W: 0.0006lx
	Zoom	30x (16x, digital Zoom)
	Lens	f= from 4.5mm (wide) up to 135mm (tele), from F1.6 up to F9.6
	Privacy zones masking	√
Mechanical	Material	Constructed from aluminium and tecnopolymer
	Horizontal rotation	360°, continuous rotation
	Vertical rotation	From -90° up to +90°
	Horizontal speed (variable)	From 0.1°/s up to 200°/s
	Tilt speed (variable)	From 0.1°/s up to 200°/s
	Position accuracy	0.05°
	Version with LED illuminators	√
	Glass cleaning device	Integrated wiper
Electrical	Supply voltage/Current consumption	230Vac, 0.4A, 50/60Hz 120Vac, 0.8A, 50/60Hz 24Vac, 4A, 50/60Hz
	Power consumption	125W max
Software	Communication protocol	ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP
	Serial communication protocol	–
	Cybersecurity	√
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4
Environment	Operating temperature	From -40°C (-40°F) up to +60°C (140°F) (continuous working)
	Relative humidity	From 10% up to 95% (no condensation)
	IP protection degree	IP66

ULISSE COMPACT DELUX - CONFIGURATION OPTIONS						
	VOLTAGE	CAMERA	OPTIONS		VIDEO OUTPUT	
UCHD	**1** 230Vac	**1** Super Low-Light Day/Night 30X zoom, Full HD camera	**W** With wiper, 1 input, 1 output	**A**	**Z** IP H.264/AVC control, ONVIF protocol Profile Q, Profile S and Profile T	**00B**
	2 24Vac		**N** With wiper, 1 input, 1 output, IR LED illuminator 10°, 940nm			
	3 120Vac		**U** With wiper, 1 input, 1 output, IR LED illuminator 30°, 850nm			
			T With wiper, 1 input, 1 output, IR LED illuminator 10°, 850nm			
			Z With wiper, 1 input, 1 output, LED illuminator 30°, white light			

For a quick breakdown of all available codes, you can also use our PTZ CONFIGURATOR at www.videotec.com

ULISSE PTZ CAMERAS AND UNITS - ACCESSORIES		ULISSE	ULISSE2	ULISSE MAXI	ULISSE MAXI NETCAM	ULISSE RADICAL 33X	ULISSE RADICAL THERMAL	ULISSE COMPACT DELUX
COMB	**Communication box in polycarbonate** Designed to work exclusively with Videotec products and accessories 1 SFP port, MSA compliant, Fast Ethernet (100BASE-FX), for fiber optic connection (splice tray included in the product) 3 RJ45 ports, Fast Ethernet (10BASE-T/100BASE-T) NEWS 2021	√	√	–	–	–	–	√
UPTBKITVB770	**Adapter module for ULISSE2 and Sony SNC-VB770 camera with Sony SELP28135G lens** Anticorodal aluminum alloy	–	√	–	–	–	–	–
UPTBVTR	**ULISSE2 housing upper part with anti-ice glass and wiper** Constructed from aluminium EAC certification	–	√	–	–	–	–	–
UPTHT	**Reinforced heater for low temperature applications** UPTHT1 for ULISSE and ULISSE PLUS versions with motorised lens down to -30°C (-22°F). Lenses with operating temperatures down to -20°C (-4°F) UPTHT2 for ULISSE versions with block camera. Operating temperature down to -30°C (-22°F)	√	–	–	–	–	–	–
UPTIRN	**LED illuminator** Vandal-proof protection (IK10) Power supply 24Vac/12-24Vdc Beam patterns: 10°, 30°, 60° Wavelengths: 850nm, 940nm, white light Adjustable light intensity Adjustable built-in photocell IP66/IP67	√	√	√	√	√	–	–
UPTIRNBKT	**Support for mounting of UPTIRN range of LED illuminators**	–	√	–	–	–	–	–
UPTIRPS100N	**External power supply for ULISSE with UPTIRN LED illuminators** Power supply: 100Vac, 50/60Hz Control to synchronise illuminators with camera Day/Night switching Twilight sensor included IP66	√	√	√	√	√	–	–
UPTIRPS120UL	**External power supply for ULISSE with UPTIRN LED illuminators** Power supply: 120Vac, 50/60Hz Control to synchronise illuminators with camera Day/Night switching Twilight sensor included IP66	√	√	√	√	√	–	–
UPTIRPS230N	**External power supply for ULISSE with UPTIRN LED illuminators** Power supply: 230Vac, 50/60Hz Control to synchronise illuminators with camera Day/Night switching Twilight sensor included IP66	√	√	√	√	√	–	–

	ULISSE PTZ CAMERAS AND UNITS - ACCESSORIES	ULISSE	ULISSE2	ULISSE MAXI	ULISSE MAXI NETCAM	ULISSE RADICAL 33X	ULISSE RADICAL THERMAL	ULISSE COMPACT DELUX
UPTJBUL	**Weatherproof junction box** For the power supply connection External mounting from the ULISSE unit IP66	√	√	√	√	√	√	√
WASPT	**Washer pump and 5 or 23 liter tank** Polyethylene tank with stainless steel cage Delivery head: 5m (16ft), 11m (36ft) or 30m (98ft) Versions with alarm for the lack of liquid in the tank Also for third-party products Operating temperature: from -10°C (14°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac	√	√	√	√	√	–	√
WASNX	**Washer pump with solenoid valve for stainless steel products** Enclosure made of stainless steel AISI 316L Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for Videotec products or with third-party products Operating temperature: from -20°C (-4°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac	√	√	√	√	√	–	√
	ULISSE PTZ CAMERAS AND UNITS - BRACKETS							
UPTWBA	**Wall mount bracket** Made of die-cast aluminum Epoxypolyester powder painting, RAL9002 colour Wall bracket with internal cable channel To combine with PTCC1 pole mount or WCWGC corner mount adapters for the installation on several surfaces	√	√	√	√	√	√	√
UPTWBTAB	**Parapet bracket** Made of die-cast aluminum Epoxypolyester powder painting, RAL9002 colour Internal cable management	√	√	√	√	√	√	√
PTCC1	**Pole mount adaptor** Made of aluminium For pole diameters: from 80mm (3.1in) up to 150mm (5.9in) Load rating: 50kg (110lb)	√	√	√	√	√	√	√
WCWGC	**Corner mount adaptor** Made of steel Load rating: 50kg (110lb)	√	√	√	√	√	√	√

STAINLESS STEEL PTZ CAMERAS

NXPTZ SERIES2

IP66/IP67 IP68/IP69 | TYPE 4X | IP

Onvif® | QST

VIDEO TEC analytics

The NXPTZ SERIES2 is resistant to rust and corrosion and does not require maintenance thanks to the absolute precision of the construction process and the solid AISI 316L stainless steel construction with mirco-shot and electropolished surfaces.

Compared to the previous generation, the SERIES2 range cameras have the possibility of easily connecting the PTZ using fibre optic thanks to the slot of the SFP module installed directly at the bottom of the unit and on installation of the specific accessory NXPTZSFP which provides a cable input on the product dedicated to fibre optic.

Models available with integrated video analysis.

There are numerous accessories available including a washing system, and wall, parapet, corner and pole supports that mean installation is extremely flexible.

As well as this, the compact design means it can be installed in the tightest spaces, while the unit's reduced weight makes assembly simple.

The NXPTZ SERIES2 video camera with VIDEOTEC ANALYTICS integrates robust algorithms for accurate detection with PTZ and precise, fluid auto-tracking even in the harshest climate conditions, ensuring that the operator has full situation awareness at all times.

		NXPTZ SERIES2		NXPTZR SERIES2	NXPTZT SERIES2
	Version	**NXPTZ SERIES2 with SONY FCB-EV7520 camera**	**NXPTZ SERIES2 with DELUX technology**		
Camera	Type of camera	Day/Night camera		Thermal camera	Thermal camera + Day/Night camera
	Image electronic stabilizer	√	–	–	√
	Resolution	Full HD (1920x1080)		720x480 (interpolated solution)	Thermal camera: 720x480 (interpolated solution) Day/Night: Full HD (1920x1080)
	Minimum illumination	Colour: 0.0013lx (50 IRE, High sensitivity on) B/W: 0.0008lx (30 IRE, High sensitivity on)	Colour: 0.006lx (F1.6, 30 IRE) B/W: 0.0006lx (F1.6, 30 IRE)	–	Day/Night Colour: 0.0013lx (50 IRE, High sensitivity on) B/W: 0.0008lx (30 IRE, High sensitivity on)
	Zoom	30x (360x with digital zoom)	30x (480x with digital zoom)	2x, 4x (336x256), digital Zoom 2x, 4x, 8x (640x512), digital Zoom	Thermal camera: 2x, 4x (336x256), digital Zoom 2x, 4x, 8x (640x512), digital Zoom Day/Night: 30x (360x with digital zoom)
	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	9mm, 13mm, 19mm, 25mm, 35mm	Thermal camera: 9mm, 13mm, 19mm, 25mm, 35mm, 50mm Day/Night: f= from 4.3mm (wide) up to 129mm (tele), from F1.6 up to F14
	Privacy zones masking	√ (dynamic masking)	√	–	√ (dynamic masking)
Mechanical	Material	AISI 316L stainless steel construction		AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Cable	Pre-wired multipolar cable		Pre-wired multipolar cable	Pre-wired multipolar cable
	Horizontal 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°
	Horizontal speed (variable)	From 0.1°/s up to 100°/s		From 0.1°/s up to 100°/s	From 0.1°/s up to 100°/s
	Tilt speed (variable)	From 0.1°/s up to 100°/s		From 0.1°/s up to 100°/s	From 0.1°/s up to 100°/s
	Position accuracy	0.02°		0.02°	0.02°
	Glass cleaning device	Integrated wiper		–	Integrated wiper
Electrical	Supply voltage/Current consumption	230Vac, 0.5A, 50/60Hz 120Vac, 1A, 50/60Hz 24Vac, 5A, 50/60Hz		230Vac, 0.5A, 50/60Hz 120Vac, 1A, 50/60Hz 24Vac, 5A, 50/60Hz	230Vac, 0.5A, 50/60Hz 120Vac, 1A, 50/60Hz 24Vac, 5A, 50/60Hz
	Power consumption	120W max		120W max	120W max
	Optical fiber	Slot SFP		Slot SFP	Slot SFP
Software	Communication protocol	ONVIF, Profile Q, Profile S and Profile T		ONVIF, Profile Q, Profile S and Profile T	ONVIF, Profile Q, Profile S and Profile T
	Cybersecurity	√		√	√
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4		H.264/AVC, MJPEG, JPEG, MPEG4	H.264/AVC, MJPEG, JPEG, MPEG4
	Video analytics	Versions available with VIDEOTEC ANALYTICS		–	–
Environment	Operating temperature	From -40°C (-40°F) up to +65°C (149°F)		From -40°C (-40°F) up to +65°C (149°F)	From -40°C (-40°F) up to +65°C (149°F)
	Relative humidity	From 5% up to 95%		From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67, IP68, IP69		IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69
	Marine Certification	Lloyd's Register Marine Type Approval (the 24Vac and 120Vac versions require a filter accessory FM1010)		Lloyd's Register Marine Type Approval (the 24Vac versions require a filter accessory FM1010)	Lloyd's Register Marine Type Approval (the 24Vac versions require a filter accessory FM1010)

NXPTZ SERIES2 - CONFIGURATION OPTIONS					
	VOLTAGE	CAMERA		OPTIONS	REVISION
NXPTZHD	**1** 230Vac	**1** Super Low-Light Day/Night 30X zoom, Full HD camera	**VW0Z0**	**0** Without integrated video analytics (without VIDEOTEC ANALYTICS)	**C** Complies with ONVIF, Profile Q, Profile S and Profile T
	2 24Vac	**2** SONY FCB-EV7520 camera, FULL HD 1080p, 30x		**V** With integrated video analytics (VIDEOTEC ANALYTICS)	**J** Complies with ONVIF, Profile S and Profile T
	3 120Vac				

NXPTZR SERIES2 - CONFIGURATION OPTIONS						
	VOLTAGE	THERMAL CAMERA	OPTIONS		REVISION	FREQUENCY
NXPTZR	**1** 230Vac	**Y** 6.5° HFOV, Thermal camera 50mm (1.97in), 336x256	**0** Thermal camera with radiometric functions	**0Z00**	**C** Complies with ONVIF, Profile Q, Profile S and Profile T	**-** 7.5Hz
	2 24Vac	**A** 9.3° HFOV, Thermal camera 35mm, 336x256	**R** Thermal camera with advanced radiometric functions		**J** Complies with ONVIF, Profile S and Profile T	**H** 30Hz
	3 120Vac	**B** 13° HFOV, Thermal camera 25mm, 336x256				
		V 17° HFOV, Thermal camera 19mm, 336x256				
		F 25° HFOV, Thermal camera 13mm, 336x256				
		C 35° HFOV, Thermal camera 9mm, 336x256				
		W 12.4° HFOV, Thermal camera 50mm (1.97in), 640x512				
		D 18° HFOV, Thermal camera 35mm, 640x512				
		E 25° HFOV, Thermal camera 25mm, 640x512				
		U 32° HFOV, Thermal camera 19mm, 640x512				
		G 45° HFOV, Thermal camera 13mm, 640x512				
		H 69° HFOV, Thermal camera 9mm, 640x512				

For a quick breakdown of all available codes, you can also use our PTZ CONFIGURATOR at www.videotec.com

NXPTZT SERIES2 - CONFIGURATION OPTIONS							
	VOLTAGE	**DAY/NIGHT CAMERA**	**THERMAL CAMERA**	**OPTIONS**		**REVISION**	**FRE-QUENCY**
NXPTZT	**1** 230Vac	**2** SONY FCB-EV7520 camera, FULL HD 1080p, 30x	**Y** 6.5° HFOV, Thermal camera 50mm, 336x256	**W** Thermal camera with radiometric functions	**0Z00**	**C** Complies with ONVIF, Profile Q, Profile S and Profile T	**-** 7.5Hz
	2 24Vac		**A** 9.3° HFOV, Thermal camera 35mm, 336x256	**R** Thermal camera with advanced radiometric functions		**J** Complies with ONVIF, Profile S and Profile T	**H** 30Hz
	3 120Vac		**B** 13° HFOV, Thermal camera 25mm, 336x256				
			V 17° HFOV, Thermal camera 19mm, 336x256				
			F 25° HFOV, Thermal camera 13mm, 336x256				
			C 35° HFOV, Thermal camera 9mm, 336x256				
			W 12.4° HFOV, Thermal camera 50mm, 640x512				
			D 18° HFOV, Thermal camera 35mm, 640x512				
			E 25° HFOV, Thermal camera 25mm, 640x512				
			U 32° HFOV, Thermal camera 19mm, 640x512				
			G 45° HFOV, Thermal camera 13mm, 640x512				
			H 69° HFOV, Thermal camera 9mm, 640x512				

For a quick breakdown of all available codes, you can also use our PTZ CONFIGURATOR at www.videotec.com

NXPTZ SERIES2 - ACCESSORIES			NXPTZ SERIES2	NXPTZR SERIES2	NXPTZT SERIES2
CMS-CMA		**Armoured and unarmoured multipolar cables** Prepared for Ethernet, video, I/O and telemetry connections Resistant to oil, flames and ultra-violet rays Available in an armoured and unarmoured version Available in black or blue Designed for potentially explosive zones	√	√	√
COMB	NEWS 2021	**Communication box in polycarbonate** Designed to work exclusively with Videotec products and accessories 1 SFP port, MSA compliant, Fast Ethernet (100BASE-FX), for fiber optic connection (splice tray included in the product) 3 RJ45 ports, Fast Ethernet (10BASE-T/100BASE-T)	√	√	√
WASPT		**Washer pump and 5 or 23 liter tank** Polyethylene tank with stainless steel cage Delivery head: 5m (16ft), 11m (36ft) or 30m (98ft) Versions with alarm for the lack of liquid in the tank Also for third-party products Operating temperature: from -10°C (14°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac	√	–	√
WASNX		**Washer pump with solenoid valve for stainless steel products** Enclosure made of stainless steel AISI 316L Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for Videotec products or with third-party products Operating temperature: from -20°C (-4°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac	√	–	√
FM1010		**EMC filter for Marine certification** The filter must be connected to the power line of the equipment The filter is not explosion-proof certified Implement adequate protection if used in potentially explosive classified environments (e.g. Atex) Electrical data: from 0 up to 250V DC/AC 50/60 Hz, 6A	√	√	√
NXPTZSFP		**Adaptor for fiber optics connection for NXPTZ SERIES2** In stainless steel AISI 316L	√	√	√
NXPTZ SERIES2 - BRACKETS					
NXPTZWB		**Wall mount bracket** Made of AISI 316L electropolished stainless steel Load rating: 40kg (88lb) Length: 400mm (15.7in) Can be coupled with modular components (NXPTZCW, NXPTZCOL)	√	√	√
NXPTZCOL		**Pole mount adaptor** Made of AISI 316L electropolished stainless steel For pole diameters: from 110mm (4.3in) up to 150mm (5.9in) Load rating: 50kg (110lb) Dimensions: 198x182mm (7.8x7.2in)	√	√	√
NXPTZCW		**Corner mount adaptor** Load rating: 50kg (110lb) Dimensions: 335x186mm (13.2x7.3in)	√	√	√
NXPTZTW		**Parapet or ceiling mounting bracket** Made of AISI 316L electropolished stainless steel Load rating: 40kg (88lb) Dimensions: Ø 238mm (9.4in)	√	√	√

EXPLOSION-PROOF PTZ
CAMERAS

MAXIMUS MPX SERIES2

IP66/IP67
IP68/IP69 | TYPE 4X
TYPE 6P | IP

ONVIF® | QST

VIDEOTEC analytics

The IP PTZ from the new MAXIMUS SERIES2 line offer the highest working performance and unbeatable levels of competitiveness for security systems in hazardous Oil&Gas, marine and industrial environments. There are two models in this explosion-proof range: MPX SERIES2 with Day/Night Full HD super low-light DELUX camera with 30x optical zoom and MPXR SERIES2 with a thermal camera and advanced radiometry functions, with a choice of various optical types.

The MAXIMUS SERIES2 range enables PTZ connection via fibre optic thanks to the SFP module mounted inside the unit (not supplied by Videotec).

Models available with integrated video analysis.

Entirely manufactured in AISI316L stainless steel, the SERIES2 cameras can be used for assembly in highly corrosive environments. The high 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 (ATEX/IECEx and UL/CSA). The Lloyd's Register Marine Type Approval System Test Specification Number 1 certification allows use in Marine applications.

Ex ATEX · IECEx · EAC Ex · INMETRO · KCs · c UL us LISTED · LR APPROVED TYPE APPROVAL SCHEME

		MAXIMUS MPX SERIES2		MAXIMUS MPXR SERIES2	MAXIMUS MPXT SERIES2
		MAXIMUS MPX SERIES2 with SONY FCB-EV7520 camera **NEWS 2021**	MAXIMUS MPX SERIES2 with DELUX technology		
Camera	Type of camera	Day/Night camera		Thermal camera	Thermal camera + Day/Night camera
	Image electronic stabilizer	√	–	–	√
	Resolution	Full HD (1920x1080)		720x480 (interpolated solution)	Thermal camera: 720x480 (interpolated solution) Day/Night: Full HD (1920x1080)
	Minimum illumination	Colour: 0.0013lx (50 IRE, High sensitivity on) B/W: 0.0008lx (30 IRE, High sensitivity on)	Colour: 0.006lx (F1.6, 30 IRE) B/W: 0.0006lx (F1.6, 30 IRE)	–	Day/Night Colour: 0.0013lx (50 IRE, High sensitivity on) B/W: 0.0008lx (30 IRE, High sensitivity on)
	Zoom	30x (360x with digital zoom)	30x (480x with digital zoom)	640x512: 2x, 4x (digital Zoom) 336x256: 2x, 4x, 8x (digital Zoom)	Thermal camera: 2x, 4x (336x256), digital Zoom 2x, 4x, 8x (640x512), digital Zoom Day/Night: 30x (360x with digital zoom
	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	35mm (1.38in), 25mm (0.98in), 19mm (0.7in), 13mm (0.5in), 9mm (0.35in)	Thermal camera: 9mm, 13mm, 19mm, 25mm, 35mm Day/Night: f= from 4.3mm (wide) up to 129mm (tele), from F1.6 up to F14
	Privacy zones masking	√ (dynamic masking)	√	–	√ (dynamic masking)
Mechanical	Material	AISI 316L stainless steel construction		AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Cable entry	2 holes 3/4" NPT		2 holes 3/4" NPT	2 holes 3/4" NPT
	Horizontal 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°
	Horizontal speed (variable)	From 0.1°/s up to 100°/s		From 0.1°/s up to 100°/s	From 0.1°/s up to 100°/s
	Tilt speed (variable)	From 0.1°/s up to 100°/s		From 0.1°/s up to 100°/s	From 0.1°/s up to 100°/s
	Position accuracy	0.02°		0.02°	0.02°
Electrical	Supply voltage/Current consumption	230Vac, 0.5A, 50/60Hz 24Vac, 5A, 50/60Hz 120Vac, 1A, 50/60Hz		230Vac, 0.5A, 50/60Hz 24Vac, 5A, 50/60Hz 120Vac, 1A, 50/60Hz	230Vac, 0.5A, 50/60Hz 24Vac, 5A, 50/60Hz 120Vac, 1A, 50/60Hz
	Power consumption	120W max		120W max	120W max
	Optical fiber	Slot SFP		Slot SFP	Slot SFP
Software	Communication protocol	ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP		ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP ONVIF Thermal Service	Thermal camera: ONVIF, Profile Q, Profile S and Profile T ONVIF Thermal Service Day/Night: ONVIF, Profile Q, Profile S and Profile T
	Cybersecurity	√		√	√
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4		H.264/AVC, MJPEG, JPEG, MPEG4	H.264/AVC, MJPEG, JPEG, MPEG4
	Video analytics	VIDEOTEC ANALYTICS		–	–
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)	From -40°C (-40°F) up to +80°C (+176°F)
	Relative humidity	From 5% up to 95%		From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67, IP68, IP69		IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69
	Marine Certification	Lloyd's Register Marine Type Approval (with MAXIMUS MBX communication box or with FM1010 filter)		Lloyd's Register Marine Type Approval (with MAXIMUS MBX communication box or with FM1010 filter)	Lloyd's Register Marine Type Approval (with MAXIMUS MBX communication box or with FM1010 filter)

MAXIMUS MPX SERIES2 - CONFIGURATION OPTIONS

	VOLTAGE	CAMERA	TEMPERATURE CLASS AND AMBIENT TEMPERATURE	VIDEO ANALYTICS	ONVIF PROFILES	
MPXHD	1 230Vac	1 Super low-light Day/Night camera, FULL HD 1080p, 30x, with DELUX technology	A T6...T5 -40°C/+60°C or +70°C	0 Without integrated video analytics (without VIDEOTEC ANALYTICS)	00 Complies with ONVIF, Profile Q, Profile S and Profile T	C
	2 24Vac	2 SONY FCB-EV7520 camera, FULL HD 1080p, 30x	D T4 -40°C/+80°C	V With integrated video analytics (VIDEOTEC ANALYTICS)	01 Complies with ONVIF, Profile S and Profile T	
	3 120Vac		C T5...T4 -40°C/+55°C or +60°C			
	5 220Vac					
	6 100Vac					

MAXIMUS MPXR SERIES2 - CONFIGURATION OPTIONS

	VOLTAGE	THERMAL CAMERA	TEMPERATURE CLASS	RADIOMETRY	ONVIF PROFILES		FREQUENCY
MPXR	1 230Vac	A 9.3° HFOV, Thermal camera 35mm, 336x256	A T6...T5 -40°C/+60°C or +70°C	00 Thermal camera with radiometric functions	0 Complies with ONVIF, Profile Q, Profile S and Profile T	C	- 7.5Hz
	2 24Vac	B 13° HFOV, Thermal camera 25mm, 336x256	D T4 -40°C/+80°C	0R Thermal camera with advanced radiometric functions	1 Complies with ONVIF, Profile S and Profile T		H 30Hz
	3 120Vac	V 17° HFOV, Thermal camera 19mm, 336x256					
	5 220Vac	F 25° HFOV, Thermal camera 13mm, 336x256					
	6 100Vac	C 35° HFOV, Thermal camera 9mm, 336x256					
		D 18° HFOV, Thermal camera 35mm, 640x512					
		E 25° HFOV, Thermal camera 25mm, 640x512					
		U 32° HFOV, Thermal camera 19mm, 640x512					

MAXIMUS MPXT SERIES2 - CONFIGURATION OPTIONS

	VOLTAGE	DAY/NIGHT CAMERA	THERMAL CAMERA	TEMPERATURE CLASS	RADIOMETRY	ONVIF PROFILES		FREQUENCY
MPXT	1 230Vac	2 SONY FCB-EV7520 camera, FULL HD 1080p, 30x	A 9.3° HFOV, Thermal camera 35mm, 336x256	A T6...T5 -40°C/+60°C or +70°C	00 Thermal camera with radiometric functions	0 Complies with ONVIF, Profile Q, Profile S and Profile T	C	- 7.5Hz
	2 24Vac		B 13° HFOV, Thermal camera 25mm, 336x256	D T4 -40°C/+80°C	0R Thermal camera with advanced radiometric functions	1 Complies with ONVIF, Profile S and Profile T		H 30Hz
	3 120Vac		V 17° HFOV, Thermal camera 19mm, 336x256					
	5 220Vac		F 25° HFOV, Thermal camera 13mm, 336x256					
	6 100Vac		C 35° HFOV, Thermal camera 9mm, 336x256					
			D 18° HFOV, Thermal camera 35mm, 640x512					
			E 25° HFOV, Thermal camera 25mm, 640x512					
			U 32° HFOV, Thermal camera 19mm, 640x512					

MAXIMUS MPX SERIES2 - CERTIFICATIONS AND MARKINGS				
PART NUMBER	**CERTIFICATION**	**MARKING**	**AMBIENT TEMPERATURE**	**CABLE ENTRY TEMPERATURE.**
MPXHD1*A0**C, MPXHD2*A0**C, MPXHD3*A0**C	ATEX	ⓒ II 2 G Ex db IIC T6...T5 Gb ⓒ II 2D Ex tb IIIC T85°C…T100°C Db	-40°C ≤ Ta ≤ +60°C or +70°C	80°C
	IECEx	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C…T100°C Db		
	EAC Ex	1Ex d IIC T6…T5 Gb X Ex tb IIIC T85°C…T100°C Db X		
	INMETRO	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C…T100°C Db		
	KCs	Ex d IIC T6...T5 Ex tb IIIC T85°C…T100°C		
	UL Hazardous Location America	Class I, Zone 1, AEx db IIC T6...T5 Gb Zone 21, AEx tb IIIC T85°C...T100°C Db Class I, Div 2, Group A, B, C, D T6...T5 Class II, Div 2, Group F, G T6...T5		80°C with Ta = 69°C 81°C with Ta = 70°C
	UL Hazardous Location Canada	Ex db IIC T6...T5 Gb X Ex tb IIIC T85°C...T100°C Db X Class I, Div 2, Group A, B, C, D T6...T5 Class II, Div 2, Group F, G T6...T5		
MPXHD5*A0**C, MPXHD6*A0**C	ATEX	ⓒ II 2 G Ex db IIC T6...T5 Gb ⓒ II 2D Ex tb IIIC T85°C…T100°C Db		80°C
	IECEx	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C…T100°C Db		
	KCs	Ex d IIC T6...T5 Ex tb IIIC T85°C…T100°C		
MPXHD1*D0**C, MPXHD2*D0**C, MPXHD3*D0**C	ATEX	ⓒ II 2G Ex db IIC T4 Gb ⓒ II 2D Ex tb IIIC T135°C Db	-40°C ≤ Ta ≤ +80°C	90°C
	IECEx	Ex db IIC T4 Gb Ex tb IIIC T135°C Db		
	EAC Ex	1Ex d IIC T4 Gb X Ex tb IIIC T135°C Db X		
	INMETRO	Ex db IIC T4 Gb Ex tb IIIC T135°C Db		
	KCs	Ex d IIC T4 Ex tb IIIC T135°C		
MPXHD5*D0**C, MPXHD6*D0**C	ATEX	ⓒ II 2G Ex db IIC T4 Gb ⓒ II 2D Ex tb IIIC T135°C Db		
	IECEx	Ex db IIC T4 Gb Ex tb IIIC T135°C Db		
	KCs	Ex d IIC T4 Ex tb IIIC T135°C		
MPXHD1*CV**C, MPXHD2*CV**C, MPXHD3*CV**C	ATEX	ⓒ II 2 G Ex db IIC T5...T4 Gb ⓒ II 2D Ex tb IIIC T100°C…T135°C Db	-40°C ≤ Ta ≤ +50°C or +60°C	80°C
	IECEx	Ex db IIC T5...T4 Gb Ex tb IIIC T100°C…T135°C Db		
	KCs	Ex d IIC T5...T4 Ex tb IIIC T100°C…T135°C		
	UL Hazardous Location America	Class I, Zone 1, AEx db IIC T5...T4 Gb Zone 21, AEx tb IIIC T100°C...T135°C Db Class I, Div 2, Group A, B, C, D T5...T4 Class II, Div 2, Group F, G T5...T4	-40°C ≤ Ta ≤ +50°C or +55°C	
	UL Hazardous Location Canada	Ex db IIC T5...T4 Gb X Ex tb IIIC T100°C...T135°C Db X Class I, Div 2, Group A, B, C, D T5...T4 Class II, Div 2, Group F, G T5...T4		
MPXHD5*CV**C, MPXHD6*CV**C	ATEX	ⓒ II 2 G Ex db IIC T5...T4 Gb ⓒ II 2D Ex tb IIIC T100°C…T135°C Db	-40°C ≤ Ta ≤ +50°C or +60°C	
	IECEx	Ex db IIC T5...T4 Gb Ex tb IIIC T100°C…T135°C Db		
	KCs	Ex d IIC T5...T4 Ex tb IIIC T100°C…T135°C		

	MAXIMUS MPXR SERIES2 - CERTIFICATIONS AND MARKINGS			
PART NUMBER	**CERTIFICATION**	**MARKING**	**AMBIENT TEMPERATURE**	**CABLE ENTRY TEMPERATURE**
MPXR1*A0**C*, MPXR2*A0**C*, MPXR3*A0**C*	ATEX	ⓔ II 2 G Ex db IIC T6...T5 Gb ⓔ II 2D Ex tb IIIC T85℃…T100℃ Db	-40℃ ≤ Ta ≤ +60℃ or +70℃	80℃
	IECEx	Ex db IIC T6...T5 Gb Ex tb IIIC T85℃…T100℃ Db		
	EAC Ex	1Ex d IIC T6…T5 Gb X Ex tb IIIC T85℃…T100℃ Db X		
	INMETRO	Ex db IIC T6...T5 Gb Ex tb IIIC T85℃…T100℃ Db		
	KCs	Ex d IIC T6...T5 Ex tb IIIC T85℃…T100℃		
	UL Hazardous Location America	Class I, Zone 1, AEx db IIC T6...T5 Gb Zone 21, AEx tb IIIC T85℃...T100℃ Db Class I, Div 2, Group A, B, C, D T6...T5 Class II, Div 2, Group F, G T6...T5		80℃ with Ta = 69℃ 81℃ with Ta = 70℃
	UL Hazardous Location Canada	Ex db IIC T6...T5 Gb X Ex tb IIIC T85℃...T100℃ Db X Class I, Div 2, Group A, B, C, D T6...T5 Class II, Div 2, Group F, G T6...T5		
MPXR5*A0**C*, MPXR6*A0**C*	ATEX	ⓔ II 2 G Ex db IIC T6...T5 Gb ⓔ II 2D Ex tb IIIC T85℃…T100℃ Db		80℃
	IECEx	Ex db IIC T6...T5 Gb Ex tb IIIC T85℃…T100℃ Db		
	KCs	Ex d IIC T6...T5 Ex tb IIIC T85℃…T100℃		
MPXR1*D0**C*, MPXR2*D0**C*, MPXR3*D0**C*	ATEX	ⓔ II 2G Ex db IIC T4 Gb ⓔ II 2D Ex tb IIIC T135℃ Db	-40℃ ≤ Ta ≤ +80℃	90℃
	IECEx	Ex db IIC T4 Gb Ex tb IIIC T135℃ Db		
	EAC Ex	1Ex d IIC T4 Gb X Ex tb IIIC T135℃ Db X		
	INMETRO	Ex db IIC T4 Gb Ex tb IIIC T135℃ Db		
	KCs	Ex d IIC T4 Ex tb IIIC T135℃		
MPXR5*D0**C*, MPXR6*D0**C*	ATEX	ⓔ II 2G Ex db IIC T4 Gb ⓔ II 2D Ex tb IIIC T135℃ Db		
	IECEx	Ex db IIC T4 Gb Ex tb IIIC T135℃ Db		
	KCs	Ex d IIC T4 Ex tb IIIC T135℃		

MAXIMUS MPXT SERIES2 - CERTIFICATIONS AND MARKINGS				
PART NUMBER	CERTIFICATION	MARKING	AMBIENT TEMPERATURE	CABLE ENTRY TEMPERATURE
MPXT1*A0**C,| MPXT2*A0**C, MPXT3*A0**C	ATEX	⟨Ex⟩ II 2 G Ex db IIC T6...T5 Gb ⟨Ex⟩ II 2D Ex tb IIIC T85℃…T100℃ Db	-40℃ ≤ Ta ≤ +60℃ or +70℃	80℃
	IECEX	Ex db IIC T6...T5 Gb Ex tb IIIC T85℃…T100℃ Db		
	EAC Ex	1Ex d IIC T6…T5 Gb X Ex tb IIIC T85℃…T100℃ Db X		
	INMETRO	Ex db IIC T6...T5 Gb Ex tb IIIC T85℃…T100℃ Db		
	KCs	Ex d IIC T6...T5 Ex tb IIIC T85℃…T100℃		
	UL Hazardous Location America	Class I, Zone 1, AEx db IIC T6...T5 Gb Zone 21, AEx tb IIIC T85℃...T100℃ Db Class I, Div 2, Group A, B, C, D T6...T5 Class II, Div 2, Group F, G T6...T5		80℃ with Ta = 69℃ 81℃ with Ta = 70℃
	UL Hazardous Location Canada	Ex db IIC T6...T5 Gb X Ex tb IIIC T85℃...T100℃ Db X Class I, Div 2, Group A, B, C, D T6...T5 Class II, Div 2, Group F, G T6...T5		
MPXT5*A0**C,| MPXT6*A0**C	ATEX	⟨Ex⟩ II 2 G Ex db IIC T6...T5 Gb ⟨Ex⟩ II 2D Ex tb IIIC T85℃…T100℃ Db		80℃
	IECEx	Ex db IIC T6...T5 Gb Ex tb IIIC T85℃…T100℃ Db		
	KCs	Ex d IIC T6...T5 Ex tb IIIC T85℃…T100℃		
MPXT1*D0**C,| MPXT2*D0**C, MPXT3*D0**C	ATEX	⟨Ex⟩ II 2G Ex db IIC T4 Gb ⟨Ex⟩ II 2D Ex tb IIIC T135℃ Db	-40℃ ≤ Ta ≤ +80℃	90℃
	IECEX	Ex db IIC T4 Gb Ex tb IIIC T135℃ Db		
	EAC Ex	1Ex d IIC T4 Gb X Ex tb IIIC T135℃ Db X		
	INMETRO	Ex db IIC T4 Gb Ex tb IIIC T135℃ Db		
	KCs	Ex d IIC T4 Ex tb IIIC T135℃		
MPXT5*D0**C,| MPXT6*D0**C	ATEX	⟨Ex⟩ II 2G Ex db IIC T4 Gb ⟨Ex⟩ II 2D Ex tb IIIC T135℃ Db		
	IECEx	Ex db IIC T4 Gb Ex tb IIIC T135℃ Db		
	KCs	Ex d IIC T4 Ex tb IIIC T135℃		

	MAXIMUS MPX SERIES2	MAXIMUS MPXR SERIES2	MAXIMUS MPXT SERIES2
MAXIMUS MPX SERIES2 - ACCESSORIES			

MPX2CABL-MPX2CABLARM		**Multipolar cables for explosion-proof Pan & Tilt** Pre-cabled for Ethernet, video, I/O and telemetry connections Equipped with barrier cable gland Resistant to oil, flames and ultra-violet rays Available in an armoured and unarmoured version Designed for potentially explosive zones Available in 2 lengths, standard or customised length	√	√	√
WASEX		**Washer pump with ex-proof solenoid valve** Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for MAXIMUS series or with third-party products Power supply: 24Vac or 24Vdc Consumption: 5W	√	−	√
MAXIMUS MBX		**Explosion-proof communication box in stainless steel** Certifications for use in Zones 1 and 2 IIC Group (Gas) and in Zones 21 and 22 IIIC Group (Dust) Embedded Ethernet switch with four channels 2 bypass for analog video signals with BNC connectors 2 bypass for I / O signals with multi-pin connectors Input voltages available: 230Vac, 120Vac, 24Vac MAXIMUS MBX exclusively supports Videotec products from the Maximus range with 24Vac and Wasex with 24Vac	√	√	√
MAXIMUS MBA		**Explosion-proof communication box in aluminium** Certifications for use in Zones 1 and 2, IIC T5 or T6 Group (Gas) and in Zones 21 and 22, IIIC T100°C or T85°C Group (Dust) Embedded Ethernet switch with four channels 2 bypass for analog video signals with BNC connectors 2 bypass for I / O signals with multi-pin connectors Input voltages available: 230Vac, 120Vac, 24Vac MAXIMUS MBA exclusively supports Videotec products from the Maximus range with 24Vac and Wasex with 24Vac	√	√	√
FM1010		**EMC filter for Marine certification** The filter must be connected to the power line of the equipment The filter is not explosion-proof certified Implement adequate protection if used in potentially explosive classified environments (e.g. ATEX) Electrical data: from 0 up to 250V DC/AC 50/60 Hz, 6A	√	√	√

		MAXIMUS MPX SERIES2 - BRACKETS	MAXIMUS MPX SERIES2	MAXIMUS MPXR SERIES2
MPXWBA		**Wall mount bracket** Made of AISI 316L electropolished stainless steel Load rating: 40kg (88lb) Length: 400mm (15.7in) Can be coupled with modular components (MPXCW, MPXCOL)	√	√
MPXCOL		**Pole mount adaptor** Made of AISI 316L electropolished stainless steel For pole diameters: from 110mm (4.3in) up to 150mm (5.9in) Load rating: 50kg (110lb) Dimensions: 198x182mm (7.8x7.2in)	√	√
MPXCW		**Corner mount adaptor** Made of AISI 316L electropolished stainless steel Load rating: 50kg (110lb) Dimensions: 335x186mm (13.2x7.3in) Suitable for: MPXWBA, MHXWBS	√	√
MPXWBTA		**Parapet or ceiling mounting bracket** Made of AISI 316L electropolished stainless steel Load rating: 40kg (88lb) Dimensions: Ø 238mm (9.4in)	√	√

VIDEOTEC

EX-PROOF CAMERAS AND HOUSINGS

MAXIMUS MMX

IP66/IP67 IP68/IP69 | TYPE 4X TYPE 6P | IP

ONVIF® | QST

The explosion-proof Full HD camera MAXIMUS MMX is perfect for efficient video surveillance and control of processes in hazardous environments where the atmosphere is potentially explosive due to the presence of inflammable gases or dust, typical of the Oil&Gas, marine or industrial and foodstuff sectors.

The Full HD, 1080p camera, with 3x or 10x motorised zoom lens, offers multiple video streams (H.264/AVC, MJPEG, JPEG, MPEG4) and provides exceptional image quality, picking out every detail in a scene, even in the harshest environmental conditions.

An absolute advantage offered by this camera is its extremely easy and safe installation. The camera can be supplied with multipolar cabling. The camera can also be powered in PoE+, thereby allowing further simplification of installation operations. The camera is supplied with supports for wall, ceiling and railing installation and with a sunshield.

The MAXIMUS MMX product is Lloyd's Register Type Approval System Test Specification Number 1 certified and therefore can be used in Marine and Offshore applications for environmental categories ENV1, ENV2, ENV3 and ENV5.

		MAXIMUS MMX	
	Version	MAXIMUS MMX with day/night camera 10x zoom	MAXIMUS MMX with day/night camera 3x zoom
	Video output	IP video output	
Camera	Type of camera	Day/Night	
	Image electronic stabilizer	√	–
	Resolution	Full HD (1920x1080)	
	Zoom	10x (320x with digital zoom)	3x (36x with digital zoom)
	Lens	f= from 5.1mm (wide) up to 51mm (tele), from F1.6 up to F1.8	f= from 3.0mm (wide) up to 9.0mm (tele), from F1.2 up to F2.1
	Privacy zones masking	√	
Mechanical	Material	AISI 316L stainless steel construction	
	Cable glands	Cable gland with gasket Ex d 1/2"NPT only for version with pre-installed, 4m (13ft)/10m (32.8ft) multipolar armoured cable	
	Supplied brackets	Supports for wall, ceiling or parapet installation	
Electrical	Supply voltage/Current consumption	24Vac, 1.32A, 50/60Hz 24Vdc, 0.9A PoE+ (IEEE 802-at), 0.46A	
	Power consumption	21W (24Vac, 1.32A, 50/60Hz) 20W (24Vdc, 0.9A) 21W (PoE+, 0.46A)	
Software	Communication protocol	ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP	
	Cybersecurity	√	
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4	
Environment	Operating temperature	From -40°C (-40°F) up to +65°C (149°F) Certification temperature: from -40°C (-40°F) up to +70°C (158°F)	
	Relative humidity	From 10% up to 95% (no condensation)	
	IP protection degree	IP66, IP67, IP68, IP69	
	Marine Certification	Lloyd's Register Marine Type Approval	–

MAXIMUS MMX - CERTIFICATIONS AND MARKINGS (WITH CABLE)

CERTIFICATION	MARKING	AMBIENT TEMPERATURE
ATEX	⬡ II 2 G Ex db IIB T6...T5 Gb ⬡ II 2 D Ex tb IIIC T85°C...T100°C Db	-40°C ≤ Ta ≤ +65°C or +70°C
IECEx	Ex db IIB T6...T5 Gb Ex tb IIIC T85°C...T100°C Db	
EAC Ex	1Ex d IIB T6...T5 Gb X Ex tb IIIC T85°C...T100°C Db X	
INMETRO	Ex db IIB T6…T5 Gb Ex tb IIIC T85 ºC…T100 ºC Db	

MAXIMUS MMX - CERTIFICATIONS AND MARKINGS (WITHOUT CABLE)

CERTIFICATION	MARKING	AMBIENT TEMPERATURE
ATEX	⬡ II 2 G Ex db IIB T6...T5 Gb ⬡ II 2 D Ex tb IIIC T85°C...T100°C Db	-40°C ≤ Ta ≤ +65°C or +70°C
IECEx	Ex db IIB T6...T5 Gb Ex tb IIIC T85°C...T100°C Db	
EAC Ex	1Ex d IIB T6...T5 Gb X Ex tb IIIC T85°C...T100°C Db X	
KCs	Ex d IIB T6...T5 Ex tb IIIC T85°C...T100°C	
INMETRO	Ex db IIB T6…T5 Gb Ex tb IIIC T85 ºC…T100 ºC Db	
Hazardous Location America	Class I, Zone 1, AEx db IIB T6...T5 Zone 21, AEx tb IIIC T85°C...T100°C Class I, Div 2 Group C, D Class II, Div 2, Group F and G	
Hazardous Location Canada	Ex db IIB T6...T5 Gb Ex tb IIIC T85°C...T100°C Db Class I, Div 2 Group C, D Class II, Div 2, Group F and G	

MAXIMUS MMX - ACCESSORIES

MAXIMUS MBX		**Explosion-proof communication box in stainless steel** Certifications for use in Zones 1 and 2 IIC Group (Gas) and in Zones 21 and 22 IIIC Group (Dust) Embedded Ethernet switch with four channels 2 bypass for analog video signals with BNC connectors 2 bypass for I / O signals with multi-pin connectors Input voltages available: 230Vac, 120Vac, 24Vac MAXIMUS MBX exclusively supports Videotec products from the Maximus range with 24Vac and Wasex with 24Vac
MAXIMUS MBA		**Explosion-proof communication box in aluminium** Certifications for use in Zones 1 and 2, IIC T5 or T6 Group (Gas) and in Zones 21 and 22, IIIC T100°C or T85°C Group (Dust) Embedded Ethernet switch with four channels 2 bypass for analog video signals with BNC connectors 2 bypass for I / O signals with multi-pin connectors Input voltages available: 230Vac, 120Vac, 24Vac MAXIMUS MBA exclusively supports Videotec products from the Maximus range with 24Vac and Wasex with 24Vac

MAXIMUS MMX - BRACKETS

MMXCWCOL		**Pole and corner adaptor module** Load rating: 30kg (66lb) For pole diameters: from 60mm (2.36in) up to 200mm (7.9in) Dimensions: 120x86mm (4.7x3.4in)

EX-PROOF CAMERAS AND HOUSINGS

MAXIMUS MVX

IP66/IP67 IP68/IP69 | TYPE 4X TYPE 6P | IP

ONVIF® | QST

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. This is something commonly seen across the Oil & Gas, marine and industrial sectors. The MVX range was designed to meet the most stringent international standards, achieving the required levels of certification for use in Zones 1 and 2 (Gas), Group IIC T5 and 6, and Zones 21 and 22 (Dust), Group IIIC 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.

The MAXIMUS MVX series products are Lloyd's Register Type Approval System Test Specification Number 1 certified and therefore can be used in Marine and Offshore applications for environmental categories ENV1, ENV2, ENV3 and ENV5.

		MAXIMUS MVX		MAXIMUS MVXT	
	Version	MAXIMUS MVX with SONY FCB-EV7520 camera NEWS 2021	MAXIMUS MVX with DELUX technology	MAXIMUS MVXT IP-based version	MAXIMUS MVXT analog version
	Video output	IP video output		IP video output	Analogue video output
Camera	Type of camera	Day/Night camera		Thermal camera	
	Radiometric analysis	–		√	–
	Image electronic stabilizer	√	–	–	–
	Resolution	Full HD (1920x1080)		640x512 (7.5-8.3Hz, 25-30Hz), 336x256 (7.5-8.3Hz, 25-30Hz)	
	Minimum illumination	Colour: 0.0013lx (50 IRE, High sensitivity on) B/W: 0.0008lx (30 IRE, High sensitivity on)	Colour: 0.006lx (F1.6, 30 IRE) B/W: 0.0006lx (F1.6, 30 IRE)	–	
	Zoom	30x (360x with digital zoom)	30x (480x with digital zoom)	2x, 4x (336x256) 2x, 4x, 8x (640x512)	
	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	35mm (1.38in) or 19mm (0.7in) or 9mm (0.35in)	
	Privacy zones masking	√ (dynamic masking)	√	–	
Mechanical	Material	AISI 316L stainless steel construction		AISI 316L stainless steel construction	
	Cable glands	Cable gland with gasket Ex d 3/4"NPT and 4m/10m (13ft/33ft) preinstalled multipolar armoured cable or with 4m (13ft)/10m (32.8ft) cable tail (for installation with conduit, conduit sealing fitting and conduit not included)		Cable gland with gasket Ex d 3/4"NPT and 4m/10m (13ft/33ft) preinstalled multipolar armoured cable or with 4m (13ft)/10m (32.8ft) cable tail (for installation with conduit, conduit sealing fitting and conduit not included)	
	Glass cleaning device	Integrated wiper		–	
Electrical	Supply voltage/Current consumption	24Vac, 2.2A, 50/60Hz 24Vdc, 2.2A 12Vdc, 3.5A		24Vac, 2.2A, 50/60Hz 24Vdc, 2.2A 12Vdc, 3.5A	
	Power consumption	50W (24Vac, 2.2A, 50/60Hz) 50W (24Vdc, 2.2A) 40W (12Vdc, 3.5A)		50W (24Vac, 2.2A, 50/60Hz) 50W (24Vdc, 2.2A) 40W (12Vdc, 3.5A)	
Software	Communication protocol	ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP		ONVIF, Profile S	–
	Cybersecurity	√		–	
	Serial communication protocol	–		–	PANASONIC, PELCO D, VIDEOTEC MACRO
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4		H.264/AVC, MJPEG	–
Environment	Operating temperature	Cold start: from -40°C (-40°F) up to +65°C (149°F) Running: from -50°C (-58°F) up to +65°C (149°F)		Cold start: from -40°C (-40°F) up to +65°C (149°F) Running: from -50°C (-58°F) up to +65°C (149°F)	
	Relative humidity	From 5% up to 95%		From 5% up to 95%	
	IP protection degree	IP66, IP67, IP68, IP69		IP66, IP67, IP68, IP69	
	Marine Certification	Lloyd's Register Marine Type Approval (only if used with the filter accessory FM1010)		Lloyd's Register Marine Type Approval (only if used with the filter accessory FM1010)	

MAXIMUS MVX RANGE - CERTIFICATIONS AND MARKINGS (VERSIONS WITH ARMOURED CABLE)		
CERTIFICATION	**MARKING**	**AMBIENT TEMPERATURE**
ATEX	Ⓔ II 2 G Ex db IIC T5 Gb Ⓔ II 2 D Ex tb IIIC T100°C Db IP66/IP68	-60°C ≤ Ta ≤ +65°C
	Ⓔ II 2 G Ex db IIC T6 Gb Ⓔ II 2 D Ex tb IIIC T85°C Db IP66/IP68	-60°C ≤ Ta ≤ +55°C
IECEx	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68	-60°C ≤ Ta ≤ +65°C
	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68	-60°C ≤ Ta ≤ +55°C
INMETRO	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68	-60°C ≤ Ta ≤ +65°C
	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68	-60°C ≤ Ta ≤ +55°C
EAC Ex	1Ex d IIC T5 Gb X Ex tb IIIC T100°C Db X	-60°C ≤ Ta ≤ +65°C
	1Ex d IIC T6 Gb X Ex tb IIIC T85°C Db X	-60°C ≤ Ta ≤ +55°C

MAXIMUS MVX RANGE - CERTIFICATIONS AND MARKINGS (CABLE TAIL VERSIONS, FOR INSTALLATION WITH CONDUIT)		
CERTIFICATION	**MARKING**	**AMBIENT TEMPERATURE**
ATEX	Ⓔ II 2 G Ex db IIC T5 Gb Ⓔ II 2 D Ex tb IIIC T100°C Db IP66/IP68	-50°C ≤ Ta ≤ +65°C
	Ⓔ II 2 G Ex db IIC T6 Gb Ⓔ II 2 D Ex tb IIIC T85°C Db IP66/IP68	-50°C ≤ Ta ≤ +55°C
IECEx	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68	-50°C ≤ Ta ≤ +65°C
	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68	-50°C ≤ Ta ≤ +55°C
INMETRO	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68	-50°C ≤ Ta ≤ +65°C
	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68	-50°C ≤ Ta ≤ +55°C
KCs (for MAXIMUS MVX DELUX only)	Ex d IIC T5 Ex tb IIIC T100°C	-50°C ≤ Ta ≤ +65°C
	Ex d IIC T6 Ex tb IIIC T85°C	-50°C ≤ Ta ≤ +55°C
EAC Ex	1Ex d IIC T5 Gb X Ex tb IIIC T100°C Db X	-50°C ≤ Ta ≤ +65°C
	1Ex d IIC T6 Gb X Ex tb IIIC T85°C Db X	-50°C ≤ Ta ≤ +55°C
Hazardous Location America	Class I Zone 1 AEx db IIC T5 Gb Zone 21 AEx tb IIIC T100°C Db Class I Div 2 Group A,B,C & D T5 Class II Div 2 Group F & G T100°C	-50°C ≤ Ta ≤ +65°C
	Class I Zone 1 AEx db IIC T6 Gb Zone 21 AEx tb IIIC T85°C Db Class I Div 2 Group A,B,C & D T6 Class II Div 2 Group F & G T85°C	-50°C ≤ Ta ≤ +55°C
Hazardous Location Canada	Ex db IIC T5 Gb Ex tb IIIC T100°C Db Class I Div 2 Group A,B,C & D T5 Class II Div 2 Group F & G T100°C	-50°C ≤ Ta ≤ +65°C
	Ex db IIC T6 Gb Ex tb IIIC T85°C Db Class I Div 2 Group A,B,C & D T6 Class II Div 2 Group F & G T85°C	-50°C ≤ Ta ≤ +55°C

MAXIMUS MVX - ACCESSORIES		MAXIMUS MVX DELUX	MAXIMUS MVX	MAXIMUS MVXT
CMS-CMA	**Armoured and unarmoured multipolar cables** Prepared for Ethernet, video, I/O and telemetry connections Resistant to oil, flames and ultra-violet rays Available in an armoured and unarmoured version Available in black or blue Designed for potentially explosive zones	√	√	√
WASEX	**Washer pump with ex-proof solenoid valve** Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for MAXIMUS series or with third-party products Power supply: 24Vac or 24Vdc Consumption: 5W	√	√	–
MAXIMUS MBX	**Explosion-proof communication box in stainless steel** Certifications for use in Zones 1 and 2 IIC Group (Gas) and in Zones 21 and 22 IIIC Group (Dust) Embedded Ethernet switch with four channels 2 bypass for analog video signals with BNC connectors 2 bypass for I / O signals with multi-pin connectors Input voltages available: 230Vac, 120Vac, 24Vac MAXIMUS MBX exclusively supports Videotec products from the Maximus range with 24Vac and Wasex with 24Vac	√	√	√
MAXIMUS MBA	**Explosion-proof communication box in aluminium** Certifications for use in Zones 1 and 2, IIC T5 or T6 Group (Gas) and in Zones 21 and 22, IIIC T100°C or T85°C Group (Dust) Embedded Ethernet switch with four channels 2 bypass for analog video signals with BNC connectors 2 bypass for I / O signals with multi-pin connectors Input voltages available: 230Vac, 120Vac, 24Vac MAXIMUS MBA exclusively supports Videotec products from the Maximus range with 24Vac and Wasex with 24Vac	√	√	√
FM1010	**EMC filter for Marine certification** The filter must be connected to the power line of the equipment The filter is not explosion-proof certified Implement adequate protection if used in potentially explosive classified environments (e.g. Atex) Electrical data: from 0 up to 250V DC/AC 50/60 Hz, 6A	√	√	√

			MAXIMUS MVX - BRACKETS	MAXIMUS MVX DELUX	MAXIMUS MVX	MAXIMUS MVXT
NXWBS1			**Wall mount bracket** Made of AISI 316L electropolished stainless steel Load rating: 45kg (99lb) Dimensions: 371x186mm (14.6x7.3in) Suitable for: NXCOL, NXCW	√	√	√
NXCOL			**Pole mount adaptor** Made of AISI 316L electropolished stainless steel For pole diameters: from 110mm (4.3in) up to 150mm (5.9in) Load rating: 50kg (110lb) Dimensions: 180x196mm (7.0x7.7in)	√	√	√
NXCW			**Corner mount adaptor** Made of AISI 316L electropolished stainless steel Load rating: 50kg (110lb) Dimensions: 180x291mm (7x11.5in)	√	√	√
MHXWFWCA			**Parapet mounting bracket** Made of AISI 316L electropolished stainless steel Load rating: 40kg (88lb) Dimensions: Ø 101.6mm (4in) Compatible with the bracket: NXFWBT	√	√	√
NXFWBT			**Extension bracket for parapet mounting** Made of AISI 316L electropolished stainless steel Load rating: 70kg (154lb) Height: 124mm (4.9in) Suitable to MVX housings only if coupled with MHXWFWCA joint	√	√	√
NXWTU			**Wall adaptor module** Made of AISI 316L electropolished stainless steel Load rating: 20kg (44lb) Dimensions: 168x234mm (6.6x9.2in) Suitable for: NXWBS1, WBOVA2, WBJA, WBMA	√	√	√

EX-PROOF CAMERAS AND HOUSINGS

MAXIMUS MHX

IP66　IP67　TYPE 4X

The MAXIMUS MHX range of explosion-proof housings have been designed to meet the strictest standards required for installation in hazardous environments where gases and flammable dusts may be present (Zone 1 and 2, Group IIC for gas and Zone 21 and 22, for Group IIIC for dust). Made entirely of electro-polished AISI 316L stainless steel, these housings allow the camera inside to work perfectly in harsh environments, such as refineries, pipelines, tankers, off-shore rigs and industrial processes.

Equipped with heating, the MHX housing has a corresponding installation and working temperature range of -40 °C to +60 °C. The MHX model with a wiper is equipped with an in-built telemetry receiver that allows data to be received, via the serial RS-485 interface, so that the wiper and washer pump can be operated remotely, and external illuminators may be lit. Wiring the device is made easier thanks to removable connectors on the connection circuit. The MHXT model features a window made of germanium, a material that provides perfectly clear vision for thermal cameras.

		MAXIMUS MHX	MAXIMUS MHXT
Mechanical	Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Housing's window	Tempered extra clear glass	Germanium with protection grid
	Internal usable area	80x82x245mm (3.1x3.2x9.6in)	80x82x245mm (3.1x3.2x9.6in)
	Glass cleaning device	Integrated wiper	–
	Cable entry	2 holes 3/4" NPT for cable entry	2 holes 3/4" NPT for cable entry
Electrical	Supply voltage/Current consumption	230Vac, 0.34A, 50/60Hz 120Vac, 0.5A, 50/60Hz 24Vac, 2.2A, 50/60Hz	230Vac, 0.34A, 50/60Hz 120Vac, 0.5A, 50/60Hz 24Vac, 2.2A, 50/60Hz
	Power consumption	Compatible cameras: 13W max	Compatible cameras: 13W max
Environment	Operating temperature	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 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67	IP66, IP67

MAXIMUS MHX - CERTIFICATIONS AND MARKINGS			
CERTIFICATION	MARKING	AMBIENT TEMPERATURE	PRODUCT NR. ENDING
ATEX	Ⓔ II 2G Ex db IIC T6 Gb Ⓔ II 2D Ex tb IIIC T85°C Db	-40°C ≤ Ta ≤ +60°C	…A
IECEx	Ex db IIC T6 Gb Ex tb IIIC T85°C Db		
EAC Ex	1Ex d IIC T6 Gb X Ex tb IIIC T85°C Db X		
KCs	Ex d IIC T6 Ex tb IIIC T85°C		
UL listed for USA (only 24Vac)	Class I, Zone 1, AEx db IIC T6 Zone 21, AEx tb IIIC T85°C Class I, Division 2, Groups A, B, C, and D, T6, Class II, Division 2, Group E, F and G, T6	-40°C ≤ Ta ≤ +54°C	…A-U[1]
UL listed for Canada (only 24Vac)	Ex db IIC T6 Gb Ex tb IIIC T85°C Db Class I, Division 2, Groups A, B, C, and D, T6 Class II, Division 2, Group E, F and G, T6		

[1] UL Certifications only for 24Vac versions and with pre-installed camera by Videotec.

	MAXIMUS MHX - ACCESSORIES	MAXIMUS MHX	MAXIMUS MHXT
CMS-CMA	**Armoured and unarmoured multipolar cables** Prepared for Ethernet, video, I/O and telemetry connections Resistant to oil, flames and ultra-violet rays Available in an armoured and unarmoured version Available in black or blue Designed for potentially explosive zones	√	√
WASEX	**Washer pump with ex-proof solenoid valve** Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for MAXIMUS series or with third-party products Power supply: 24Vac or 24Vdc Consumption: 5W	√	–
	MAXIMUS MHX - BRACKETS		
MHXWBS	**Wall mount bracket** Made of AISI 316L electropolished stainless steel Load rating: 40kg (88lb) Length: 425mm (16.7in) Suitable for: MPXCW, MPXCOL	√	√
MPXCOL	**Pole mount adaptor** Made of AISI 316L electropolished stainless steel For pole diameters: from 110mm (4.3in) up to 150mm (5.9in) Load rating: 50kg (110lb) Dimensions: 198x182mm (7.8x7.2in)	√	√
MPXCW	**Corner mount adaptor** Made of AISI 316L electropolished stainless steel Load rating: 50kg (110lb) Dimensions: 335x186mm (13.2x7.3in) Suitable for: MPXWBA, MHXWBS	√	√
MHXWFWCA	**Parapet mounting bracket** Made of AISI 316L electropolished stainless steel Load rating: 40kg (88lb) Dimensions: Ø 101.6mm (4in) Suitable for: NXFWBT	√	√
NXFWBT	**Extension bracket for parapet mounting** Made of AISI 316L electropolished stainless steel Load rating: 70kg (154lb) Height: 124mm (4.9in) Suitable to MVX housings only if coupled with MHXWFWCA joint	√	√

EX-PROOF CAMERAS AND HOUSINGS

EXH

IP66

The robust, explosion-proof EXH range of housings have been designed for use in areas where there is a risk of explosion and they are certified Zone 1 and 2, Group IIC for gas and Zone 21 and 22, for Group IIIC for dust.

These housings are made entirely of strong, anti-corrosion aluminium. All its components are oven-fire painted and provide ultimate resistance to ultraviolet rays, saline mist and polluting agents that are present in the surrounding atmosphere.

The EXH-G model features a window made of germanium, a material that provides perfectly clear vision for thermal cameras. Heating is provided as standard, while the sunshield is optional. Also available are a wide range of armed or unarmed cable glands for various diameter cables.

		EXHC	EXHC000G
Mechanical	Material	Non-corrosive die-cast aluminium (anticorodal)	Non-corrosive die-cast aluminium (anticorodal)
	Housing's window	Extra clear glass	Germanium
	Internal usable area	100x100x280mm (3.9x3.9x11in)	100x100x280mm (3.9x3.9x11in)
	Glass cleaning device	–	–
	Cable entry	2 holes 3/4" NPT for cable entry	2 holes 3/4" NPT for cable entry
Electrical	Supply voltage/Current consumption	24Vac 230Vac	24Vac
	Power consumption	Heater: 60W Installable camera: 20W	Heater: 20W Installable camera: 20W
Environment	Operating temperature	From -40°C (-40°F) up to +50°C (122°F)	From -20°C (-4°F) up to +50°C (122°F)
	Relative humidity	From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66	IP66

EXH - CERTIFICATIONS AND MARKINGS

CERTIFICATION	MARKING	AMBIENT TEMPERATURE
ATEX	⬡ II 2G Ex d IIC T6 Gb ⬡ II 2D Ex t IIIC T85°C Db IP66	-40°C ≤ Ta ≤ +50°C (EXHC) -20°C ≤ Ta ≤ +50°C (EXHC000G)
IECEx[1]	Ex d IIC T6 Gb Ex t IIIC T85°C Db IP66	-40°C ≤ Ta ≤ +50°C
EAC Ex	1Ex d IIC T6 Gb X Ex tb IIIC T85°C Db X	-40°C ≤ Ta ≤ +50°C (EXHC) -20°C ≤ Ta ≤ +50°C (EXHC000G)
KCs[1]	Ex d IIC T6 Gb Ex t IIIC T85°C Db	-40°C ≤ Ta ≤ +50°C

[1] Certification valid only for versions with extra-clear glass.

		EXH - ACCESSORIES	EXHC	EXHC000G
EXHS000		**Sunshield 580mm** Constructed from steel	√	√
		EXH - BRACKETS		
EXWBJ		**Bracket and ball joint for EXH ex-proof housing** Solid, anticorodal aluminium construction The EXBJ, alone, allows the column mount Load rating: 35kg (77lb) Length: 455mm (17.9in)	√	√
EXBJ		**Ball joint for the column mount of EXH ex-proof housings** Solid, anticorodal aluminium construction	√	√

STAINLESS STEEL HOUSINGS AND CAMERAS

NVX

IP66/IP67 IP68/IP69 | TYPE 4X TYPE 6P | IP

ONVIF® | QST

VIDEOTEC analytics

NVX and NTX cameras have advanced anti-corrosion properties and are distinguished for their compact design and light weight, which facilitates their installation and maintenance, also thanks to the quick connectors. They are suitable for applications in marine and industrial environments, as well as use in the rail and transport sectors and in motorway tunnels.

These cameras have exceptional resistance to corrosion, an ample temperature range and degree of protection IP66/IP67/IP68/IP69.

NVX is available with an integrated super low-light camera with 30x motorised zoom, with DELUX video encoding technology. Alternatively, the model with SONY FCB-EV7520 camera offers an electronic image stabiliser, advanced HLC technology and dynamic masking of privacy zones. Models available with integrated video analysis.

The NVX camera is available with integrated wiper or with polycarbonate window for applications in the food industry.

NTX is a thermal camera with radiometric functions that allow detection of the temperature and setting of an alarm based on a temperature threshold.

APPROVED TYPE APPROVAL SCHEME
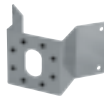
		NVX		NTX
	Version	**NVX with SONY FCB-EV7520 camera** **NEWS 2021**	**NVX with DELUX technology**	
Camera	Type of camera	Day/Night camera		Thermal camera
	Radiometric analysis	–		√
	Image electronic stabilizer	√	–	–
	Resolution	Full HD (1920x1080)		720x480
	Minimum illumination	Colour: 0.0013lx (50 IRE, High sensitivity on) B/W: 0.0008lx (30 IRE, High sensitivity on)	Colour: 0.006lx (F1.6, 30 IRE) B/W: 0.0006lx (F1.6, 30 IRE)	–
	Zoom	30x (360x with digital zoom)	30x (480x with digital zoom)	2x, 4x (336x256) 2x, 4x, 8x (640x512)
	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	9mm, 13mm, 19mm, 25mm, 35mm
	Privacy zones masking	√ (dynamic masking)	√	–
Mechanical	Material	AISI 316L stainless steel construction		AISI 316L stainless steel construction
	Unit weight	4.9kg (10.8lb) (fastening support included)		4.9kg (10.8lb) (fastening support included)
	Windows for camera	Glass or polycarbonate		Germanium window
	Possibility of installing LED illuminators	√		–
	Glass cleaning device	Integrated wiper (only for versions with glass window)		–
Electrical	Supply voltage/Current consumption (version without board for video analysis)	24Vac, 1.32A, 50/60Hz 24Vdc, 0.9A PoE+ (IEEE 802-3at)		24Vac, 1.32A, 50/60Hz 24Vdc, 0.9A PoE+ (IEEE 802-3at)
	Supply voltage/Current consumption (version with board for video analysis)	24Vac, 1.8A, 50/60Hz 24Vdc, 1.1A		24Vac, 1.8A, 50/60Hz 24Vdc, 1.1A
	Power consumption	21W max (version without board for video analysis) 25W max (version with board for video analysis)		21W max (version without board for video analysis) 25W max (version with board for video analysis)
Software	Communication protocol	ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP		ONVIF, Profile Q, Profile S and Profile T SNMP, NTCIP
	Cybersecurity	√		√
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4		H.264/AVC, MJPEG, JPEG, MPEG4
	Video analytics	Versions available with VIDEOTEC ANALYTICS		–
Environment	Operating temperature	From -40°C (-40°F) up to +65°C (149°F) (continuous working)		From -40°C (-40°F) up to +65°C (149°F) (continuous working)
	Relative humidity	From 5% up to 95%		From 5% up to 95%
	IP protection degree	IP66, IP67, IP68, IP69		IP66, IP67, IP68, IP69
	Compliance to railway applications	√		√
	Marine Certification	Lloyd's Register Marine Type Approval		Lloyd's Register Marine Type Approval

			NVX	NTX
	NVX - ACCESSORIES			
COMB	**Communication box in polycarbonate** Designed to work exclusively with Videotec products and accessories 1 SFP port, MSA compliant, Fast Ethernet (100BASE-FX), for fiber optic connection (splice tray included in the product) 3 RJ45 ports, Fast Ethernet (10BASE-T/100BASE-T)		√	√
NVXTUB	**Dust protection frontal shield** Made of electro-polished stainless steel AISI 316L Dimensions (ØxL): 175x121.5mm (6.9x4.8in)		√	√
NVXIRBKT	**Illuminator fastening support (GEKO IRH)** Made of electro-polished stainless steel AISI 316L Dimensions (HxL): 56.9x103.4mm (2.2x4in)		√	√
WASPT	**Washer pump and 5 or 23 liter tank** Polyethylene tank with stainless steel cage Delivery head: 5m (16ft), 11m (36ft) or 30m (98ft) Versions with alarm for the lack of liquid in the tank Also for third-party products Operating temperature: from -10°C (14°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac		√	–
WASNX	**Washer pump with solenoid valve for stainless steel products** Enclosure made of stainless steel AISI 316L Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for Videotec products or with third-party products Operating temperature: from -20°C (-4°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac		√	–
	NVX - BRACKETS			
UEAP	**Pole mount adaptor** Made of AISI 316L electropolished stainless steel For pole diameters: from 60mm (2.36in) up to 200mm (7.9in) Dimensions: 121x85mm (4.7x3.3in)		√	√
UEAC	**Corner mount adaptor** Made of AISI 316L electropolished stainless steel Dimensions: 120x220mm (4.7x8.7in)		√	√
UEAW	**Counter-plate** Made of AISI 316L electropolished stainless steel Dimensions: 200x200mm (7.9x7.9in)		√	√

STAINLESS STEEL HOUSINGS AND CAMERAS

NXM36
NXL
NXW

IP66/IP67
IP68/IP69

The NX series housing was designed to guarantee perfect and constant functionality of the cameras in more extreme and corrosive environmental conditions, such as marine, industrial environments and motorways. These housings offer reliability and strength thanks to the maximum precision used in the manufacturing processes and the quality of the stainless steel AISI 316L, completely resistant to rust and corrosion.

The line includes different models to meet every application need: liquid cooled housings and with glass resistant to very high temperatures or for thermal video, housings suitable for immersion in water, with air barriers for cleaning or cooling of the front glass and housings for Hi-PoE cameras with power supply via Ethernet cable.

These housings can be used in motorway tunnels and in areas with high atmospheric pollution, in submarine monitoring systems, in control of industrial processes, in blast furnaces and foundries.

The NXM36 product is Lloyd's Register Type Approval System Test Specification Number 1 certified and therefore can be used in Marine and Offshore applications for environmental categories ENV1, ENV2, ENV3 and ENV5.

		NXM36	NXM36 HI-POE	NTM36
Mechanical	Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Housing's window	Tempered extra clear glass	Tempered extra clear glass	Germanium
	Internal usable area	88x86x334mm (3.5x3.4x13.1in) (without accessories)	88x86x210mm (3.5x3.4x8.3in) (with heater)	88x86x334mm (3.5x3.4x13.1in) (without accessories)
	Cable glands	2xPG13.5 (nickel-plated brass for external connections)	2xPG13.5 (nickel-plated brass for external connections)	2xPG13.5 (nickel-plated brass for external connections)
	Glass cleaning device	Wiper (accessory)	Wiper (accessory)	–
Electrical	Supply voltage/Current consumption	Heater: 12Vdc/24Vac 120Vac/230Vac Camera power supply: IN from 100Vac up to 240Vac - OUT 12Vdc, 50/60Hz, 1.25A IN 230Vac - OUT 24Vac, 50Hz, 400mA	PoE/Hi-PoE power supply (IEEE 802.3af, IEEE 802.3at)	Heater: 12Vdc/24Vac 120Vac/230Vac Camera power supply: IN from 100Vac up to 240Vac - OUT 12Vdc, 50/60Hz, 1.25A IN 230Vac - OUT 24Vac, 50Hz, 400mA
	Power consumption	Heater: 20W (12Vdc/24Vac) 40W (120Vac/230Vac) 80W (double heater, 120Vac/230Vac)	PoE input Class 3: 13W Hi-PoE input Class 4: 25W	Heater: 20W (12Vdc/24Vac) 40W (120Vac/230Vac)
Environment	Operating temperature	Version with heater: from -20°C (-4°F) up to +60°C (140°F) Version with double heater: from -40°C (-40°F) up to +60°C (140°F)	With wide range cameras, in Hi-PoE version: from -20°C (-4°F) up to +60°C (140°F)	Version with heater: from -20°C (-4°F) up to +60°C (140°F)
	Relative humidity	From 5% up to 95%	From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69
	Marine Certification	Lloyd's Register Marine Type Approval	–	–

		NXL	NTL
Mechanical	Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Housing's window	Tempered extra clear glass	Germanium
	Internal usable area	112x112x562mm (4.5x4.5x22.1in) (without accessories)	112x112x562mm (4.5x4.5x22.1in) (without accessories)
	Cable glands	4xPG13.5 (nickel-plated brass for external connections)	4xPG13.5 (nickel-plated brass for external connections)
	Glass cleaning device	Wiper (accessory)	–
Electrical	Supply voltage/Current consumption	Heater: 12Vdc/24Vac 120Vac/230Vac Camera power supply: IN from 100Vac up to 240Vac - OUT 12Vdc, 50/60Hz, 1.25A IN 230Vac - OUT 24Vac, 50Hz, 400mA	Heater: 12Vdc/24Vac 120Vac/230Vac Camera power supply: IN from 100Vac up to 240Vac - OUT 12Vdc, 50/60Hz, 1.25A IN 230Vac - OUT 24Vac, 50Hz, 400mA
	Power consumption	Heater: 20W (12Vdc/24Vac) 40W (120Vac/230Vac)	Heater: 20W (12Vdc/24Vac) 40W (120Vac/230Vac)
Environment	Operating temperature	Version with heater: from -20°C (-4°F) up to +60°C (140°F)	Version with heater: from -20°C (-4°F) up to +60°C (140°F)
	Relative humidity	From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67	IP66, IP67

		NXW	NTW
Mechanical	Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Housing's window	Tempered extra clear glass (accessory) Quartz glass (accessory) IR-proof glass (accessory)	Zinc Selenide (ZnSe) Sapphire
	Internal usable area	78x78x345mm (3.1x 3.1x13.6in)	78x78x345mm (3.1x 3.1x13.6in)
	Cable glands	2xPG13.5 (nickel-plated brass for external connections)	2xPG13.5 (nickel-plated brass for external connections)
	Glass cleaning device	Air barrier	Air barrier
Electrical	Supply voltage/Current consumption	Camera power supply: IN 230Vac - OUT 12Vdc, 50/60Hz, 400mA IN 230Vac - OUT 24Vac, 50Hz, 400mA	Camera power supply: IN 230Vac - OUT 12Vdc, 50/60Hz, 400mA IN 230Vac - OUT 24Vac, 50Hz, 400mA
Environment	Operating temperature	Cooling liquid: 260°C (500°F) max (window with extra clear tempered glass) 260°C (500°F) max (window with IR-proof glass) 400°C (752°F) max (window with quartz glass)	Cooling liquid: 200°C (392°F) max (zinc Selenide glass) 400°C (752°F) max (window in sapphire)
	Relative humidity	From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67	IP66, IP67

STAINLESS STEEL HOUSINGS AND CAMERAS - ACCESSORIES	NXM36	NXM36 HI-POE	NTM36	NXL	NTL	NXW	NTW
WAS-WASPT — **Washer pump and 5 or 23 liter tank** Polyethylene tank with stainless steel cage Delivery head: 5m (16ft), 11m (36ft) or 30m (98ft) Versions with alarm for the lack of liquid in the tank Also for third-party products Operating temperature: from -10°C (14°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac	√	√	–	√	–	–	–
WASNX — **Washer pump with solenoid valve for stainless steel products** Enclosure made of stainless steel AISI 316L Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for Videotec products or with third-party products Operating temperature from -20°C (-4°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac	√	√	–	√	–	–	–
ONXAB1025B — **Air barrier** Made of AISI 316L electropolished stainless steel Air barrier with IR-proof glass	–	–	–	–	–	√	–
ONXAB2 — **Air barrier** Made of AISI 316L electropolished stainless steel Air barrier with tempered window glass	–	–	–	–	–	√	–
ONXMAIRB — **Air barrier** Air barrier with tempered glass included for NXM36	√	√	√	–	–	–	–
ONXMAIRBIR — **Air barrier** Air barrier with IR-proof glass included for NXM36	√	√	√	–	–	–	–
NXFIGRU2 — **Air filtering group** To combine with the air barrier ONXAB2 and ONXAB1025B to filter compressed air of oil and water impurities generally coming from the compressor Filtering of particles with diameter higher than 0.1µm	–	–	–	–	–	√	–
VIPNX — **Wiper for housing** Made of AISI 316L electropolished stainless steel IP66/IP67 Different voltages available, 230Vac or 24Vac, both 50/60Hz Connector 3+1 poles, easy wiring harness Marine Certification: Lloyd's Register Marine Type Approval	√	√	–	√	–	–	–
ONXWTG — **Tempered extra clear glass** The model with tempered glass has been designed to endure in installations where the surrounding air is of a high temperature (260°C (500°F) max)	–	–	–	–	–	√	–

	STAINLESS STEEL HOUSINGS AND CAMERAS - ACCESSORIES	NXM36	NXM36 HI-POE	NTM36	NXL	NTL	NXW	NTW
ONXWQG	**Quartz glass** The model with quartz glass has been designed to endure in installations where the surrounding air is of an extremely high temperature. (400°C (752°F) max)	–	–	–	–	–	√	–
Power supply	**Camera power supply** Can be installed inside the housing Available in different versions, 120/230Vac input and 24Vac/12Vdc output.	√	–	√	√	√	√	√
Heater	**Heater** Thermostatically controlled heating element PTC 20W or 40W (Ton <= 15°C(59°F); Toff >= 22°C(72°F) Available versions: 12Vdc/24Vac or 120Vac/230Vac	√	–	√	√	√	–	–
	STAINLESS STEEL HOUSINGS AND CAMERAS - BRACKETS							
NXWBL	**Wall bracket for NXL housing** Made of AISI 316L electropolished stainless steel Load rating: 45kg (99lb) Length: 596mm (23.5in) Can be coupled with modular components: NXCOL, NXCW	–	–	–	√	√	–	–
NXWBS1	**Wall mount bracket** Made of AISI 316L electropolished stainless steel Load rating: 45kg (99lb) Dimensions: 371x186mm (14.6x7.3in) Suitable for: NXCOL, NXCW	√	√	√	√	√	√	√
NXCOL	**Pole mount adaptor** Made of AISI 316L electropolished stainless steel For pole diameters: from 110mm (4.3in) up to 150mm (5.9in) Load rating: 50kg (110lb) Dimensions: 180x196mm (7.0x7.7in)	√	√	√	√	√	√	√
NXCW	**Corner mount adaptor** Made of AISI 316L electropolished stainless steel Load rating: 50kg (110lb) Dimensions: 180x291mm (7x11.5in)	√	√	√	√	√	√	√
NXWTU	**Wall adaptor module** Made of AISI 316L electropolished stainless steel Load rating: 20kg (44lb) Dimensions: 168x234mm (6.6x9.2in) Suitable for: NXWBS1, WBOVA2, WBJA, WBMA	√	√	√	√	√	√	√
MHXWBS	**Wall mount bracket** Made of AISI 316L electropolished stainless steel Load rating: 40kg (88lb) Length: 425mm (16.7in) Suitable for: MPXCW, MPXCOL	√	√	√	–	–	√	√
MHXWFWCA	**Parapet mounting bracket** Made of AISI 316L electropolished stainless steel Load rating: 40kg (88lb) Dimensions: Ø 101.6mm (4in) Suitable for: NXFWBT	√	√	√	–	–	√	√

GENERAL PURPOSE CAMERA HOUSINGS

**HOV
PUNTO
VERSO
HEG
HEK, HEB, HGV**

IP66   IP67   IK10   IP

The wide range of housings, made from aluminium or innovative plastic materials, meets every requirement for use in external environments. The numerous supports and adapters, with or without cable protection, provide a solution for any type of mounting. There are also a large variety of accessories available: heating, camera power supply, tamper switch, fans and filters, wipers and several glass cleaning kits. The POLAR model protects the camera inside against temperatures down to -55 °C.

The housings that have intelligent IPM management technology, developed by Videotec for Hi-PoE cameras, use the Ethernet cable's power as the only power supply for all the managed devices. The Hi-PoE system can independently measure all available options, such as heating, fans and illuminators, maintaining a balance of power and, thus, making sure that it is adequately distributed to all connected devices. The result is a network which is more reliable and flexible, simplified installation operations and also reduced costs.

		HOV	HOV HI-POE IPM	HTV
Mechanical	Material	Constructed from aluminium Sunshield in ABS	Constructed from aluminium Sunshield in ABS	Constructed from aluminium Sunshield in ABS
	Housing's window	Extra clear glass	Extra clear glass	Germanium
	Internal usable area	100x70x250mm (3.9x2.7x9.8in)	100x70x250mm (3.9x2.7x9.8in)	100x70x250mm (3.9x2.7x9.8in)
	Cable glands	3 x M16	1 x M12, 1 x M16, 1 x M20	3 x M16
	Glass cleaning device	Integrated wiper (optional)	–	–
Electrical	Supply voltage/Current consumption	Version without accessories: from 12Vdc up to 24Vdc, 1A max from 12Vac up to 24Vac, 1A max, 50/60Hz from 120Vac up to 230Vac, 400mA max, 50/60Hz	PoE/Hi-PoE power supply (IEEE 802.3af, IEEE 802.3at)	Version without accessories: from 12Vdc up to 24Vdc, 1A max from 12Vac up to 24Vac, 1A max, 50/60Hz from 120Vac up to 230Vac, 400mA max, 50/60Hz
	Power consumption	–	PoE input Class 3: 13W Hi-PoE input Class 4: 25W	–
Environment	Operating temperature	Version with heater: from -20°C (-4°F) up to +65°C (149°F)	Version with heater: from -30°C (-22°F) up to +60°C (140°F)	Version with heater: from -20°C (-4°F) up to +60°C (140°F)
	Relative humidity	From 5% up to 95%	From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67 (with cable glands or optional sealing rings)	IP66, IP67 (with cable glands or optional sealing rings)	IP66, IP67 (with cable glands or optional sealing rings)

		PUNTO	PUNTO HI-POE
Mechanical	Material	Made of technopolymer	Made of technopolymer
	Housing's window	Glass	Glass
	Internal usable area	70x70x250mm (2.7x2.7x9.8in)	70x70x250mm (2.7x2.7x9.8in)
	Cable glands	2 x M16	1 x M20
Electrical	Supply voltage/Current consumption	Version without accessories: from 12Vdc up to 24Vdc, 1A max from 12Vac up to 24Vac, 1A max, 50/60Hz from 120Vac up to 230Vac, 400mA max, 50/60Hz	PoE/Hi-PoE power supply (IEEE 802.3af, IEEE 802.3at)
	Power consumption	–	PoE input Class 3: 13W Hi-PoE input Class 4: 25W
Environment	Operating temperature	Version with heater: from -20°C (-4°F) up to +60°C (140°F)	Version with heater: from -20°C (-4°F) up to +60°C (140°F)
	Relative humidity	From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66	IP66

		VERSO COMPACT	VERSO	VERSO HI-POE IPM	VERSO POLAR
Mechanical	Material	Made of technopolymer	Made of technopolymer	Made of technopolymer	Made of technopolymer
	IK protection degree	IK10	IK10	IK10	IK10
	Housing's window	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
	Internal usable area	63x63x210mm (2.5x2.5x8.3in)	70x70x270mm (2.7x2.7x10.6in)	70x70x230mm (2.7x2.7x9.0in)	70x70x270mm (2.7x2.7x10.6in)
	Cable glands	2 x M16	3 x M16	1 x M12, 1 x M16, 1 M20	3 x M16 (nickel-plated brass for external connections)
Electrical	Supply voltage/Current consumption	Version without accessories: from 12Vdc up to 24Vdc, 1A max from 12Vac up to 24Vac, 1A max, 50/60Hz from 120Vac up to 230Vac, 400mA max, 50/60Hz	Version without accessories: from 12Vdc up to 24Vdc, 1A max from 12Vac up to 24Vac, 1A max, 50/60Hz from 120Vac up to 230Vac, 400mA max, 50/60Hz	PoE/Hi-PoE power supply (IEEE 802.3af, IEEE 802.3at)	Version with heater: from 12Vdc up to 24Vdc, 5A max from 12Vac up to 24Vac, 5A max, 50/60Hz from 120Vac up to 230Vac, 700mA max, 50/60Hz
	Power consumption	Heater (120Vac/230Vac): 40W Heater (12Vdc/24Vac): 20W	Heater (120Vac/230Vac): 40W Heater (12Vdc/24Vac): 20W	PoE input Class 3: 13W Hi-PoE input Class 4: 25W	Heater (120Vac/230Vac): 120W Heater (12Vdc/24Vac): 60W
Environment	Operating temperature	Version with heater: from -20°C (-4°F) up to +60°C (140°F)	Version with heater: from -20°C (-4°F) up to +60°C (140°F)	Version with heater: from -30°C (-22°F) up to +60°C (140°F)	Version with heater: from -55°C (-67°F) up to +60°C (140°F)
	Relative humidity	From 5% up to 95%	From 5% up to 95%	From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67 (with cable glands or optional sealing rings)	IP66, IP67 (with cable glands or optional sealing rings)	IP66, IP67 (with cable glands or optional sealing rings)	IP66, IP67 (with cable glands or optional sealing rings)

		HEG	HTG
Mechanical	Material	Constructed from aluminium	Constructed from aluminium
	Housing's window	Extra clear glass	Germanium
	Internal usable area	134x88x273mm (5.1x3.5x10.7in)	134x88x273mm (5.1x3.5x10.7in)
	Cable glands	3 x M16	3 x M16
	Glass cleaning device	Wiper (accessory)	–
Electrical	Supply voltage/Current consumption	Version with heater: 12Vdc, 1.6A max 24Vac, 0.85A max, 50/60Hz 120Vac, 0.35A max, 50/60Hz 230Vac, 0.18A max, 50/60Hz	Version with heater: 12Vdc, 1.6A max 24Vac, 0.85A max, 50/60Hz 120Vac, 0.35A max, 50/60Hz 230Vac, 0.18A max, 50/60Hz
	Power consumption	Heater: 20W max (12Vdc/24Vac) 40W (120Vac/230Vac) Triple heater, continuous duty fan (120Vac/230Vac): 124W	Heater: 20W max (12Vdc/24Vac) 40W (120Vac/230Vac)
Environment	Operating temperature	Version with triple heater, continuous duty fan: from -50°C (-58°F) up to +60°C (140°F)	Version with heater: from-20°C (-4°F) up to +60°C (140°F)
	Relative humidity	From 5% up to 95%	From 5% up to 95%
	IP protection degree	IP66, IP67 (with cable glands)	IP66, IP67 (with cable glands)

		HEK	HEB	HGV
Mechanical	Material	Aluminium (body, external slide) Technopolymer (front, rear zone)	Aluminium	Aluminium (base) ABS (upper body, sunshield)
	Housing's window	PMMA	Extra clear glass	Extra clear glass
	Internal usable area	82x62x300mm (3.2x2.4x11.8in) (without accessories)	82x62x320mm (3.2x2.4x12.6in) (without accessories)	200x169x519mm (7.9x6.7x20.4in)
	Cable glands	3 x M16	3 x M16	4 x M16
	Glass cleaning device	–	–	Integrated wiper
Electrical	Supply voltage/Current consumption	Version with heater: 12Vdc, 1.6A max 24Vac, 0.85A max, 50/60Hz 120Vac, 0.35A max, 50/60Hz 230Vac, 0.18A max, 50/60Hz	Version with heater: 12Vdc, 1.6A max 24Vac, 0.85A max, 50/60Hz 120Vac, 0.35A max, 50/60Hz 230Vac, 0.18A max, 50/60Hz	Heater: IN 24Vac IN 120/230Vac Camera power supply: IN from 100Vac up to 240Vac - OUT 12Vdc, 50/60Hz, 1.25A
	Power consumption	Heater: 20W (IN 12Vdc/24Vac) 40W (IN 120/230Vac)	Heater: 20W (IN 12Vdc/24Vac) 40W (IN 120/230Vac)	Triple fan-assisted heating: 80W (IN 24Vac) 150W (IN 120/230Vac)
Environment	Operating temperature	Version with heater: from -20°C (-4°F) up to +60°C (140°F)	Version with heater: from -20°C (-4°F) up to +60°C (140°F)	Version with heater: from -20°C (-4°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)
	IP protection degree	IP66, IP67 (with cable glands or optional sealing rings)	IP66, IP67 (with cable glands or optional sealing rings)	IP66

CAMERA HOUSINGS FOR GENERAL PURPOSES - ACCESSORIES		HOV	HOV HI-POE IPM	HTV	PUNTO	PUNTO HI-POE	VERSO COMPACT	VERSO	VERSO HI-POE IPM	VERSO POLAR	HEK	HEB	HEG	HTG	HGV
WAS-WASPT	**Washer pump and 5 or 23 liter tank** Polyethylene tank with stainless steel cage Delivery head: 5m (16ft), 11m (36ft) or 30m (98ft) Versions with alarm for the lack of liquid in the tank Also for third-party products Operating temperature: up to 60°C (140°F) max Available voltages: 230Vac, 24Vac, 120Vac	√	–	–	–	–	–	–	–	–	–	–	√	–	√
OWBIP	**Sealing rings** For cable management bracket For WBOVA2 and WCM4A2 brackets IP66	√	√	√	√	√	√	√	√	√	√	√	√	√	–
Alarm	**Tamper switch on board for housing** With tamper proof screws and key	√	–	√	–	–	√	–	–	–	–	–	–	–	–
Power supply	**Camera power supply** Can be installed inside the housing Available in different versions, 120/230Vac input and 24Vac/12Vdc output.	√	–	√	√	–	√	√	–	√	√	√	√	√	–
Heater	**Heater** Thermostatically controlled heating element PTC 20W or 40W (Ton <= 15°C(59°F); Toff >= 22°C(72°F) Available versions: 12Vdc/24Vac or 120Vac/230Vac	√	–	√	√	–	√	√	–	–	√	√	√	√	–
Blower	**Blower with air filter** Thermostatically controlled cooling blower Ton >= 35°C (95°F); Toff <= 20°C (68°F) and filter Available versions: 230Vac, 24Vac, 12Vdc	√	–	–	–	–	√	√	–	–	–	√	–	–	–
OHEGBB	**Weatherproof junction box** IP55 For housing of wiring harnesses or auxiliary boards	√	√	√	√	√	√	√	√	√	√	√	√	√	√
VIP6A	**Wiper** Can be directly installed on the housing body Support for nozzle included Available versions: 24Vac, 230Vac	–	–	–	–	–	–	–	–	–	–	–	√	–	–
Retrofit IPM	**Kit retrofit with IPM technology** IPM technology (Intelligent Power Management) PoE/Hi-PoE power supply for heating, demisting, illuminator, fan and PoE network camera Compatible with IEEE 802.3af, IEEE 802.3at/PoE Plus	√	√	–	–	–	–	√	√	–	–	–	–	–	–

CAMERA HOUSINGS FOR GENERAL PURPOSES - BRACKETS		HOV	HOV HI-POE IPM	HTV	PUNTO	PUNTO HI-POE	VERSO COMPACT	VERSO	VERSO HI-POE IPM	VERSO POLAR	HEK	HEB	HEG	HTG	HGV
WBJA	**Wall mount bracket** Made of aluminium Fully adjustable swivel head Load rating: 25kg (55lb) Height: 185mm (7.3in)	√	√	√	√	√	√	√	√	√	–	√	√	√	–
WBMA	**Wall mount bracket** Made of aluminium Fully adjustable swivel head Load rating: 25kg (55lb) Height: 204mm (8in)	–	–	–	–	–	√	–	–	–	√	√	–	–	–
WBOVA2	**Wall mount bracket** Made of aluminium Fully adjustable swivel head Internal cable management Load rating: 25kg (55lb) Height: 204mm (8in) The sealing rings OWBIP2 or OWBIP3 ensure an IP66 protection to the housing Unit weight: 0.6kg (1.3lb)	√	√	√	√	√	√	√	√	√	√	–	–	–	–
WBOV3A2	**Wall bracket with support plate and weatherproof junction box** Made of aluminium Internal cable management directly to the box Load rating: 25kg (55lb) Height: 204mm (8in) The sealing rings OWBIP2 or OWBIP3 ensure an IP66 protection to the housing	√	√	√	√	√	√	√	√	√	√	–	–	–	–
WBLA	**Wall mount bracket** Solid, anticorodal aluminium construction Load rating: 70kg (154lb) Length: 457.5mm (18,7in)	–	–	–	–	–	–	–	–	–	–	–	–	–	√
WCM3A	**Ceiling mount** Made of steel Fully adjustable swivel head Load rating: 15kg (33.5lb) Length: 300mm (11.8in)	√	√	√	√	√	√	√	√	√	√	–	–	–
WCM4A2	**Ceiling mount** Made of aluminium tube Internal cable management Load rating: 15kg (33.5lb) Length: 412mm (16.2in)	√	√	√	√	√	√	√	√	√	√	–	–	–
NXWTU	**Wall adaptor module** Made of AISI 316L electropolished stainless steel Load rating: 20kg (44lb) Dimensions: 168x234mm (6.6x9.2in) Suitable for: NXWBS1, WBOVA2, WBJA, WBMA	√	√	√	√	√	√	√	√	√	√	√	√	√	–

CAMERA HOUSINGS FOR GENERAL PURPOSES - BRACKETS		HOV	HOV HI-POE IPM	HTV	PUNTO	PUNTO HI-POE	VERSO COMPACT	VERSO	VERSO HI-POE IPM	VERSO POLAR	HEK	HEB	HEG	HTG	HGV
WCM5A	**Ceiling mount** Made of aluminium Load rating: 15kg (33.5lb) Length: 412mm (16.2in) 500mm (19in) linear extension available with WCMPA Unit weight: 1.4kg (3lb)	√	√	√	√	√	√	√	√	√	√	√	√	√	–
WCMPA	**Linear extension for WCM4A2 and WCM5A** It allows a 500mm (19in) extension	√	√	√	√	√	√	√	√	√	√	√	√	√	–
WFWCA	**Parapet bracket** Made of aluminium Fully adjustable swivel head Load rating: 15kg (33.5lb) Length: 185mm (7.3in)	√	√	√	√	√	√	√	√	√	√	√	√	√	–
DBHWGC	**Pole mount adaptor** Made of steel For pole diameters: 210÷225mm (8.3÷8.8in) To be combined with the reinforcing support plate WCPA Load rating: 25kg (55lb) (static load)	√	√	√	√	√	√	√	√	√	√	√	√	√	–
WCWA	**Corner mount adaptor** Made of steel Load rating: 30kg (66lb)	√	√	√	√	√	√	√	√	√	√	√	√	√	–
WSFPA	**Pole mount adaptor** Made of aluminium Load rating: 30kg (66lb) For pole diameters: 65÷110mm (2.6÷4.3in)	√	√	√	√	√	√	√	√	√	√	√	√	√	–
WCPA	**Reinforcing support plate for poor consistency walls** Made of aluminium Available with a supporting box with internal cable channel Load rating: 50kg (110lb)	√	√	√	√	√	√	√	√	√	√	√	√	√	–

STAINLESS STEEL P&T MOTORS

NXPTH

IP66 IP67

NXPTH Pan & Tilt, together with the stainless steel housing, was built to withstand the most severe and corrosive environmental conditions such as offshore, marine environments and industrial applications.

Each detail has been carefully analysed, resulting a reliable product suitable for highly corrosive environments. The accurate mechanical construction and reliable motors utilized reduce the need of mainteinance even in situations of heavy mechanical stress.

The NXPTH allows a maximum horizontal/vertical rotation of 340° and is equipped with potentiometers which allow use of the preset function.

	NXPTH

Stainless steel P&T motor
Made of AISI 316L electropolished stainless steel
IP66/IP67
Horizontal fixed speed 5°/s, vertical fixed speed 3°/s
Max. load 40kg (88lb) balanced
Preset function
Versions 24Vac and 230Vac, 50/60Hz
Compatible with: NXM, NXM36, NXM36 Hi-PoE, NTM, NXL, NTL

NXPTH

STAINLESS STEEL P&T MOTORS - BRACKETS

NXWBPTH1

Wall bracket for NXPTH
Bracket for NXPTH
Suitable for: NXCOL, NXCW, NXFWBT
Made of AISI 316L electropolished stainless steel
Load rating: 70kg (154lb)
Length: 596mm (23.5in)

NXFWBT

Extension bracket for parapet mounting
Made of AISI 316L electropolished stainless steel
Load rating: 70kg (154lb)
Height: 124mm (4.9in)
Suitable for MHXWFWCA ball joint
Suitable to MVX housings only if coupled with MHXWFWCA joint
Suitable for: NXWBPTH1

NXCW

Corner mount adaptor
Made of AISI 316L electropolished stainless steel
Load rating: 50kg (110lb)
Dimensions: 180x291mm (7x11.5in)

NXCOL

Pole mount adaptor
Made of AISI 316L electropolished stainless steel
For pole diameters: from 110mm (4.3in) up to 150mm (5.9in)
Load rating: 50kg (110lb)
Dimensions: 180x196mm (7.0x7.7in)

TELEMETRY

DTRX3
DTMRX2
DCRE485

A wide range of telemetry receivers have been designed for outdoor Pan & Tilt remote control, which includes the most basic to the most complete models, and enable Pan & Tilt function management and motorised lenses.

The DTRX3 is a digital receiver, controlled by a microprocessor with 17 functions, for remote control of a Pan & Tilt motor, motor-driven zoom lens, wiper, washer and 4 auxiliary contacts.

DCRE485 is a serial data distributor used to increase the lines of DTRX3 and DTMRX2 receivers. The appliance gives serial data back on 8 outputs at the same time, allowing star configurations.

DTRX3, DTMRX2, DCRE485

DTRX3

Telemetry receiver for P&T, 17 functions

11 standard functions for the control of P & T motors and zoom lenses, 6 functions for auxiliary services (2 x dry contacts, 1 x 12Vdc, 1x 24Vac, wiper and washer)

Maintenance of configuration even in case of power loss

Selectable communication: RS-232 and RS-485

Selection of the P&T motor power supply (24Vac or 230Vac) and camera (12Vdc or 24Vac)

Compatible with protocol PELCO D

DTMRX2

Telemetry receiver for P&T, 12 functions

11 standard functions for the control of P&T motors and zoom lenses, 1 function for the control of one auxiliary service (dry contact)

Selectable communication: RS-232 and RS-485

Aux can be used for wiper operation

Compatible with protocol PELCO D

DCRE485

Serial data distributor for P&T

1 input, 8 serial outputs in RS-485

Serial data back on eight outputs at the same time

max. connection distance 1200m (3937ft)

MULTIPOLAR CABLES

CMS-CMA
CPS-CET-CIO

The armoured and unarmoured multipolar cables are prepared for Ethernet, video, alarms and telemetry connections.

These cables have been designed for use in hostile environments and potentially explosive atmospheres. They are resistant to oil, flames and ultra-violents rays and hence recommended for use with our ex-proof and stainless steel cameras.

They are available in black and blue and are sold by the metre.

CMS-CMA, CPS-CET-CIO	
CMS-CMA	**Armoured and unarmoured multipolar cables** Prepared for Ethernet, video, I/O and telemetry connections Resistant to oil, flames and ultra-violet rays Available in black or blue Designed for potentially explosive zones Armoured black cable (CMAN1200): 1 Ethernet cable, 3 power supply conductors, 1 coaxial video cable, 7 alarm conductors, relay and telemetry Armoured black cable (CMAN0400): 1 Ethernet cable, 3 power supply conductors Unarmoured black cable ((CMSN2200): 2 Ethernet cables, 3 power supply conductors, 2 coaxial video cables, 15 alarm conductors, relay and telemetry Unarmoured blue cable (CMSN0400: 1 Ethernet cable, 3 power supply conductors
CPS-CET-CIO	**Power and control cables** Cable with power supply with 3 conductors Ethernet cable STP Cat. 5e Shielded signals cable with 7 or 8 conductors All cables are UL certified **NEWS 2021**

CMS-CMA COMPATIBILITY/PRODUCTS									
MODEL NUMBER	MAXIMUS MPX SERIES2	MAXIMUS MPXR SERIES2	MAXIMUS MPXT SERIES2	MAXIMUS MMX	MAXIMUS MVX	MAXIMUS MVXT	NXPTZ SERIES2	NXPTZR SERIES2	NXPTZT SERIES2
CMSN2200	√	√	√	–	√	√	√	√	√
CMSB2200	–	–	–	–	–	–	√	√	√
CMAN1200	√ [1]	√ [1]	√ [1]	–	√	√	√ [1]	√ [1]	√ [1]
CMAN0401	–	–	–	√	–	–	–	–	–
CMSN0400	–	–	–	√	–	–	–	–	–

[1] Not all functions are available

WAS, WASPT
WASNX
WASEX

Videotec cleaning kits adapt to any Videotec PTZ camera or housing that is equipped with a wiper, and are also compatible with third-party products.

The kit comprises a tank for the washing fluid (various sizes, from 5 to 23 L) and an integrated pump with head up to 30 m of range. With the use of antifreeze, the minimum working temperature is as low as -25 ℃.

The stainless steel models were designed for special applications such as those onshore/offshore, industrial or in environments where external agents are particularly corrosive. The explosion-proof certified version allows use in environments at risk of explosion.

The WASEX series products and the product WASPT0V23L11M00 in the WASPT series are Lloyd's Register Type Approval System Test Specification Number 1 certified and therefore can be used in Marine and Offshore applications for environmental categories ENV1, ENV2, ENV3 and ENV5.

WAS-WASPT, WASNX, WASEX	
WAS-WASPT	**Washer pump and 5 or 23 liter tank** Polyethylene tank with stainless steel cage Delivery head: 5m (16ft), 11m (36ft) or 30m (98ft) Versions with alarm for the lack of liquid in the tank Also for third-party products Operating temperature: from -10°C (14°F) up to +60°C (140°F) Available voltages: 230Vac,120Vac, 24Vac IP protection degree: IP66 (only products with 5m (16ft) or 11m (36ft) delivery head) Marine Certification: Lloyd's Register Marine Type Approval (only valid for the pump with a 23l tank and 11m delivery head in the WASPT series)
WASNX	**Washer pump with solenoid valve for stainless steel products** Enclosure made of stainless steel AISI 316L Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for Videotec products or with third-party products Operating temperature from -20°C (-4°F) up to +60°C (140°F) Available voltages: 230Vac, 120Vac, 24Vac IP protection degree: IP65 (solenoid valve only, enclosure not rated)
WASEX	**Washer pump with ex-proof solenoid valve** Delivery head: up to 20m (66ft) Water tank capacity: 10l (2.6gal) Suitable for MAXIMUS series or with third-party products Power supply in 24Vac/dc, 5W max Explosion-proof certified: refer to the table Marine Certification: Lloyd's Register Marine Type Approval

WASEX - CERTIFICATIONS AND MARKINGS

PART NUMBER	CERTIFICATION	MARKING	AMBIENT TEMPERATURE
WASEX2T4AT	ATEX (Solenoid valve)	⟨Ex⟩ 2 II GD Ex d IIC T6 or T5 or T4 Gb Ex tb IIIC T80°C or 95°C or T130°C Db IP66	-40°C ≤ Ta ≤ +35°C or +50°C or +60°C
WASEX2T4GOR	EAC Ex (Pumping unit)	II Gb c IIC T6/T5/T4 III Db c IIIC T80°C/T95°C/T130°C	-40°C ≤ Ta ≤ +35°C or +50°C or +60°C
	EAC Ex (Solenoid valve)	1Ex d IIC T6/T5/T4 Gb X Ex tb IIIC T80°C/ T95°C/ T130°C Db X	-40°C ≤ Ta ≤ +35°C or +50°C or +60°C
WASEX2T4IN	INMETRO (Solenoid valve)	Ex d IIC T4 Gb IP66 Ex tb IIIC T135°C Db IP66	-40°C ≤ Ta ≤ +60°C
WASEX2T4KC	ATEX (Solenoid valve)	⟨Ex⟩ 2 II GD Ex db mb IIC T4 Gb Ex mb tb IIIC T135°C Db	-40°C ≤ Ta ≤ +55°C
	IECEx (Solenoid valve)	Ex db mb IIC T4 Gb Ex mb tb IIIC T135°C Db	
	KCs (Solenoid valve)	Ex d mb IIC T4 Ex mb tD A21 IP67 T135°C	

	WAS WASHING SYSTEMS - ACCESSORIES	WAS-WASPT	WASNX	WASEX
COMB	**Communication box in polycarbonate** Designed to work exclusively with Videotec products and accessories 1 SFP port, MSA compliant, Fast Ethernet (100BASE-FX), for fiber optic connection (splice tray included in the product) 3 RJ45 ports, Fast Ethernet (10BASE-T/100BASE-T)	√	√	–
DTWRX	**Telemetry data receiver for wiper and washer remote control** Remote control of the wiper and the washer pump in the WASPT series RS-485 communication Remote controllable up to 1200m (3937ft) from the control keyboard	√	–	–
MAXIMUS MBX	**Explosion-proof communication box in stainless steel** Certifications for use in Zones 1 and 2 IIC Group (Gas) and in Zones 21 and 22 IIIC Group (Dust) Embedded Ethernet switch with four channels 2 bypass for analog video signals with BNC connectors 2 bypass for I / O signals with multi-pin connectors Input voltages available: 230Vac, 120Vac, 24Vac MAXIMUS MBX exclusively supports Videotec products from the Maximus range with 24Vac and Wasex with 24Vac	–	–	√
MAXIMUS MBA	**Explosion-proof communication box in aluminium** Certifications for use in Zones 1 and 2, IIC T5 or T6 Group (Gas) and in Zones 21 and 22, IIIC T100°C or T85°C Group (Dust) Embedded Ethernet switch with four channels 2 bypass for analog video signals with BNC connectors 2 bypass for I / O signals with multi-pin connectors Input voltages available: 230Vac, 120Vac, 24Vac MAXIMUS MBA exclusively supports Videotec products from the Maximus range with 24Vac and Wasex with 24Vac	–	–	√
WASCAB	**Cabinet for WAS/WASPT (versions with 5m and 11m head pump)** AISI 316L stainless steel construction Dimensions: 403x568x354mm (15.8x22.3x14in) Suitable for: NXCOL, NXCW	√	–	–

LED ILLUMINATORS

GEKO IRH
GEKO IRN

IP66   IP67   TYPE 4X   IK10

GEKO is a range of latest-generation LED illuminators designed and produced by Videotec that provide excellent lighting for standard resolution and megapixel cameras. They are extremely reliable and robust.

GEKO illuminators light up an entire scene evenly, eliminating hot spots and areas of under-exposure for unrivalled night-time images and secure area surveillance.

The high efficiency heat sink body guarantees maximum duration of the LED and protection against overheating, while the window, in special technopolymer, offers high infrared transmission.

The line includes models with a wave length of 850nm, 940nm and white light and scattering angle of 10°, 30° or 60°.

GEKO IRH, GEKO IRN	
GEKO IRH	**LED illuminator** High efficiency ultimate SMD LED technology High efficiency heat sink body to ensure maximum LEDs durability Strong aluminium structure Beam patterns: 10°, 30°, 60° Wavelengths: 850nm, 940nm, white light Supply voltage: from 12Vdc up to 24Vdc or 24Vac Consumption: 6 W or 12W Adjustable built-in photocell VOLT free relay contact for external activation It can be mounted under a housing using the OSUPPIR bracket Supplied with a wall-mount bracket IP66/IP67
GEKO IRN	**LED illuminator** High efficiency ultimate SMD LED technology High efficiency heat sink body to ensure maximum LEDs durability Strong aluminium structure Vandal-proof protection (IK10) Supply voltage: 12Vdc, 24Vdc, 24Vac or from 100Vac up to 240Vac Beam patterns: 10°, 30°, 60° Wavelengths: 850nm 940nm, white light Consumption: 30W Adjustable light intensity Adjustable built-in photocell VOLT-free relay input for external activation VOLT free relay output for Day/Night camera Supplied with a wall-mount bracket IP66/IP67

GEKO IRH – BEAM PATTERN AND ACHIEVABLE DISTANCES FOR ONE ILLUMINATOR				
HORIZONTAL AND VERTICAL BEAM PATTERNS	**MAXIMUM DISTANCE**			
	850NM, LOW POWER	**850NM, HIGH POWER**	**940NM, HIGH POWER**	**WHITE LIGHT, HIGH POWER**
10˚	100m (328ft)	140m (460ft)	100m (328ft)	–
30˚	60m (197ft)	84m (276ft)	60m (197ft)	60m (197ft)[1]
60˚	40m (131ft)	56m (184ft)	40m (131ft)	40m (131ft)[1]

[1] Achievable distances with camera in Day mode (colour image)

The distances and the performance depend on the camera/lens used and on the environmental conditions.

GEKO IRN – BEAM PATTERN AND ACHIEVABLE DISTANCES FOR ONE ILLUMINATOR			
HORIZONTAL AND VERTICAL BEAM PATTERNS	**MAXIMUM DISTANCE**		
	850NM	**940NM**	**WHITE LIGHT**
10˚	240m (787ft)	140m (460ft)	–
30˚	130m (427ft)	80m (262ft)	120m (393ft)[1]
60˚	80m (262ft)	60m (197ft)	90m (295ft)[1]

[1] Achievable distances with camera in Day mode (colour image)

The distances and the performance depend on the camera/lens used and on the environmental conditions.

GEKO IRN – BEAM PATTERN AND ACHIEVABLE DISTANCES FOR TWO ILLUMINATORS		
HORIZONTAL/VERTICAL BEAM PATTERNS	**MAXIMUM DISTANCE**	
	850NM	**940NM**
10˚	275m (902ft)	200m (656ft)
30˚	165m (541ft)	120m (393ft)
60˚	110m (361ft)	80m (262ft)

GEKO IRH - CONFIGURATION OPTIONS			
	BEAM PATTERNS	**POWER**	**WAVELENGTH**	
IRH	**10** Narrow	**H** High power	**8** 850nm	**A**
	30 Medium	**L** Low power	**9** 940nm	
	60 Wide		**W** White light	

The version in white light (W) is only available in high-power (H) with 30° or 60° beam patterns.

The versions in 940nm are available in high power (H).

GEKO IRN - CONFIGURATION OPTIONS					
	BEAM PATTERNS	**POWER SUPPLY**	**WAVELENGTH**		**VERSION**	
IRN	**10** Narrow	**A** 90-240Vac	**8** 850nm	**A**	**S** Single illuminator	**00**
	30 Medium	**B** 12-24Vdc, 24Vac	**9** 940nm			
	60 Wide		**W** White light			

	LED ILLUMINATORS - ACCESSORIES	GEKO IRH	GEKO IRN
IRHPS	**Power supply module for GEKO IRH LED illuminator** Power supply: IN 230Vac 50/60Hz OUT 24Vac 30W or IN 120Vac 50/60Hz OUT 24Vac 30W IP66/IP67	√	–
	LED ILLUMINATORS - BRACKETS		
OSUPPIR	**Bracket for 1 illuminator** In aluminium, painted with epoxypolyester powder RAL9002 For PUNTO, VERSO, VERSO COMPACT, HOV and HEG housings When installed under the PUNTO housing, this mount is compatible only in combination with WBJA or WBMA wall brackets	√	–

CONTROL KEYBOARDS

DCZ
DCJ

Our keyboards control a wide range of switching devices and most of the speed domes and PTZs available on the market. In addition, the product range includes video transmitters/receivers via twisted pair cabling for video signals over long distances.

The DCZ keyboard comes with jog shuttle, joystick 38 backlit keys, alarm buzzer, and allows the management of CCTV applications from a PC, via USB connection.

Furthermore, the DCJ allows you to control up to 999 telemetry receivers, the preset and patrol functions together with the DTRX3.

DCZ, DCJ		
DCZ		**Universal keyboard for managing CCTV applications from PC** USB keyboard for managing CCTV applications, with joystick and jog shuttle Functions determined by the controlled application The user can easily personalize and print several pre-cut sheets supplied for this purpose The keyboard can be turned round so that both right- and left-handed users can use all the functions with ease HID Game Controller emulation for the use with the most important VMS (Avigilon Control Center, Ganz-VsoIP, Exacq Vision, Milestone XProtect®, Genetec Omnicast 4.2, Mirasys-DVMS, Seetec ProBox, Sony-Real Shot Manager, Luxriot DVR)* *Functionality may be limited depending on the VMS used.
DCJ		**Video and telemetry control keyboard** Three axis proportional joystick Direct control or through Videotec matrix series SM of third parties products RS-485 serial communication with video matrix and multiplexer 2 RS-485 independent telemetry lines RS-232 serial communication connection with PC for firmware update Up to 9999 video channels, 999 telemetry receivers on each telemetry line and 99 monitors

VIDEO MATRIX AND DISTRIBUTORS

SM164B
VD

The system video matrix offers a solution to collect and manage images that are able to switch video inputs onto independent outputs with synchronised sequencing among the various monitors.

The SM164B matrix is a microprocessor remote-controlled video matrix which allows the video switching of 16 cameras on 4 outputs. In case of alarm, the alarmed video input can be displayed on the video outputs. The alarm contacts are independent and configured as Normally Open (NO) or Normally Closed (NC).

The video distributor is used when it is necessary to distribute the same video signals to multiple locations.

SM164B, VD		
SM164B		**System video matrix PAL/NTSC** 16 video inputs 4 independent video outputs with text generator Telemetry over the coax on the 16 video inputs and on auxiliary serial output (RS-485) Controllable by PC (RS-232) 16 alarm inputs, one output contact, trigger VCR and alarm reset 4 RS-485 serial inputs for max. 4 remote keyboards Privacy video masking function
VD		**Video distributors** Versions with 1, 4, 8 inputs and 8, 16 outputs For colour or B/W video signals The input signal is amplified and distributed to the available outputs By means of VD816PR1 and VD48P1 versions, it is possible to select how many outputs can be associated to a video input

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