CATALOGUE 2019
VIDEO SECURITY PRODUCTS

ENGLISH

In over thirty 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 9001:2008 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 specialised 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.
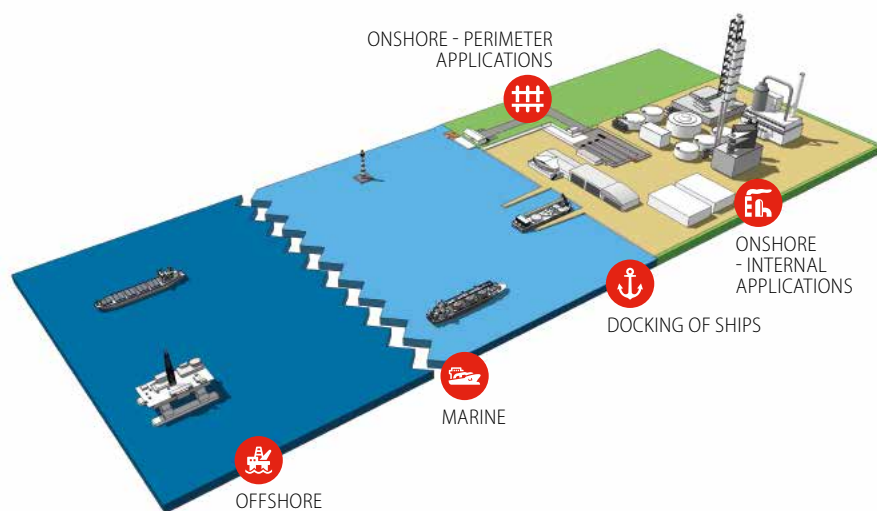
MARKETS
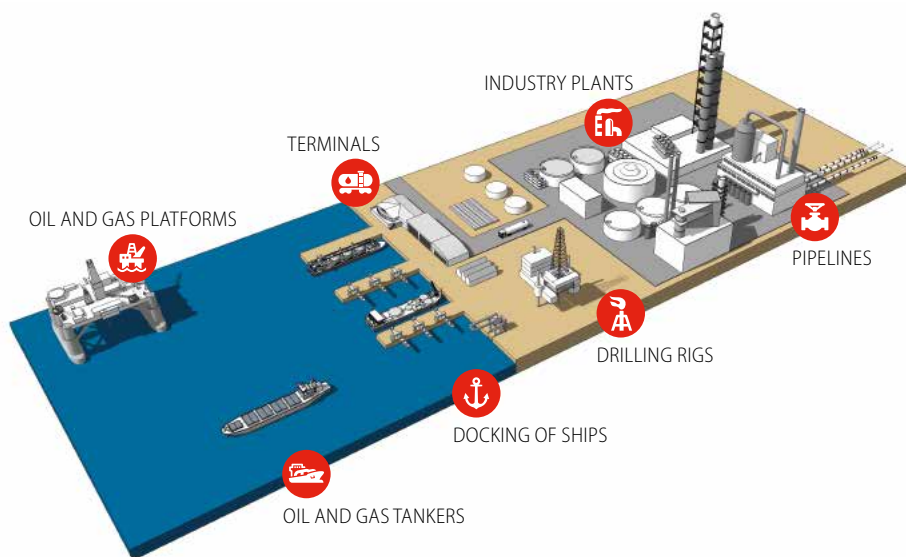
Oil and Gas

The wide range of specialised 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

DOCKING OF SHIPS

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 specialised 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

DOCKING OF SHIPS

MARINE

OFFSHORE
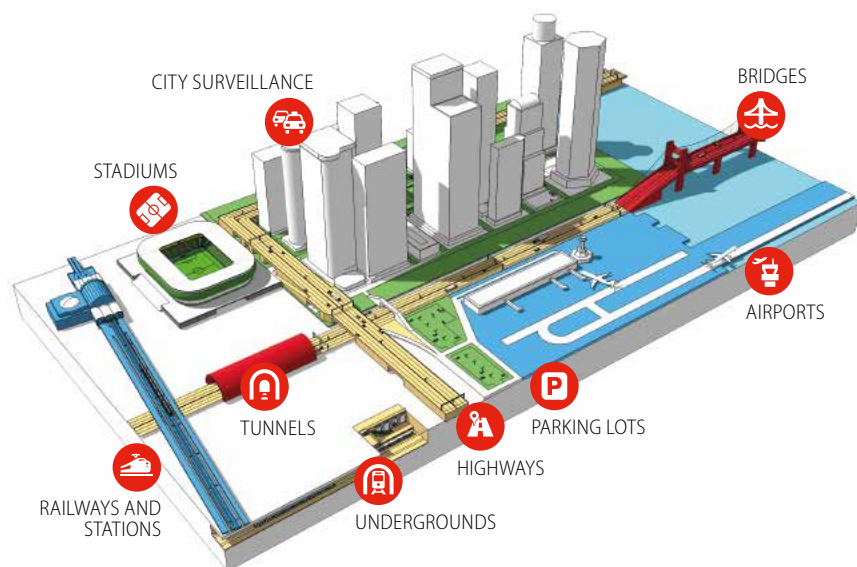
Critical infrastructure and Transportation

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 SURVEILLANCE

BRIDGES

STADIUMS

AIRPORTS

TUNNELS

PARKING LOTS

HIGHWAYS

RAILWAYS AND STATIONS

UNDERGROUNDS

CONTENTS

PTZ CAMERAS AND UNITS

FIXED CAMERAS AND HOUSINGS

P&T MOTORS AND TELEMETRY

CABLES

WASHING SYSTEMS

ILLUMINATORS

VIDEO MANAGEMENT, CONTROL AND TRANSMISSION

ULISSE PTZ CAMERAS AND UNITS
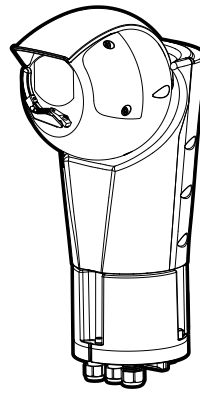
STAINLESS STEEL PTZ CAMERAS

EXPLOSION-PROOF PTZ CAMERAS

ULISSE PTZ CAMERAS AND UNITS

ULISSE EVO

IP66 IP67 IP68	TYPE 4X TYPE 6P	IK10	
	PoE	IP	

ONVIF® | S Q

ULISSE EVO is a PTZ camera that combines high technology, competitiveness and design and guarantees the maximum level of security for monitoring urban areas, critical infrastructures, transport, traffic and railways (it complies with the standards for railway applications)

The Super low-light, Full HD, 1080p, 60 fps IP camera with 30x optical zoom and integrated Delux technology offers unbeatable clear and detailed images with vivid colours, day or night. The camera's 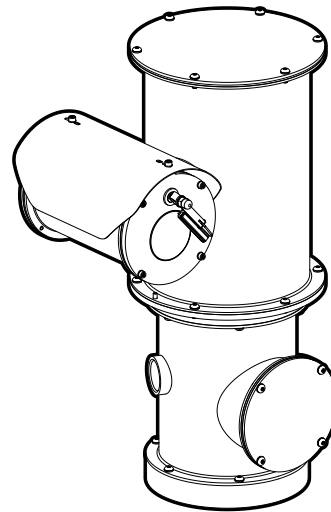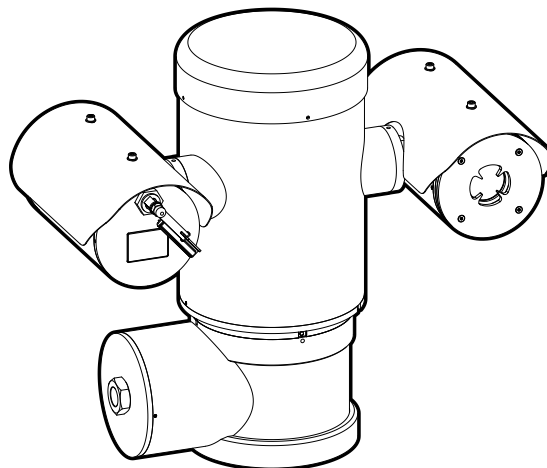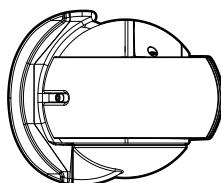motion detection function, with privacy masking feature, allows intelligent management of areas and immediate raising of alarms if an unwanted intrusion is detected.

ULISSE EVO offers an unrivalled corrosion resistance, thanks to the special aluminum surface treatments and the technopolymer used for its construction.

ULISSE EVO can be installed in different ways, even in the inverted position typical of the speed domes, using the large variety of brackets and adaptors available to satisfy every installation need. The brackets are also available with quick connectors for Ethernet/PoE, for power and I/O, which allow fast and easy operations in case of on-site intervention.
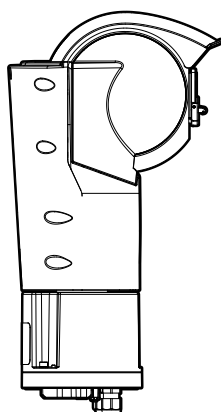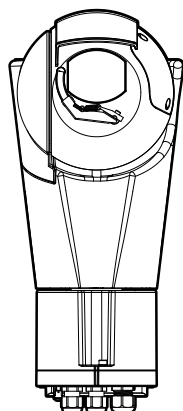
		ULISSE EVO
	Video output	IP video output
Camera	Type of camera	Day/Night
	Resolution	Full HD (1920x1080)
	Minimum illumination	Colour: 0.006lx B/W: 0.0006lx
	Zoom	30x (16x, digital Zoom)
	Lens	f= from 4.5mm (wide) up to 135mm (tele), from F1.6 up to F9.6
Mechanical	Material	Constructed from aluminium and tecnopolymer
	Unit weight	7.1kg (15.6lb) (7.4kg (16.3lb) with LED illuminator)
	Painting	Epoxy-polyester powder painted, standard colours RAL9002 or RAL9005
	Horizontal rotation	360°, continuous rotation
	Vertical rotation	From -90° up to +90°
	Horizontal speed (variable)	From 0.1°/s up to 250°/s
	Tilt speed (variable)	From 0.1°/s up to 250°/s
	Position accuracy	0.05°
	Possibility of installing LED illuminators	√
	Glass cleaning device	Integrated wiper
Electrical	Supply voltage/Current consumption	24Vac, 5A, 50/60Hz 24Vdc, 5A PoE 90W
	Power consumption	70W max (peak on switch-on, with illuminator and heating on)
Software	Communication protocol	ONVIF, Profile S and Profile Q
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4
Environment	Operating temperature	From -40°C (-40°F) up to +65°C (149°F) (continuous working)
	Relative humidity	From 10% up to 100%
	IP protection degree	IP66, IP67, IP68
	Compliance to railway applications	Compliance to railway applications standard EN50121-4 (the product requires the filter accessory SURGEPR)
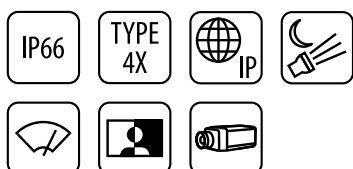
UEI8		**IR illuminator 850nm for ULISSE EVO** Standard colours: RAL9002 (UEI8AA), RAL9005 (UEI8FA)
UEI9		**IR illuminator 940nm for ULISSE EVO** Standard colours: RAL9002 (UEI9AA), RAL9005 (UEI9FA)
UEIW		**White light illuminator for ULISSE EVO** Standard colours: RAL9002 (UEIWAA), RAL9005 (UEIWFA)
OHEP90IN		**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)
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
UEBP0		**Parapet bracket with internal cable channel for ULISSE EVO** Standard colours: RAL9002 (UEBP0AA), RAL9005 (UEBP0FA)
UEBP4		**Parapet bracket with quick connectors for ULISSE EVO** RJ45 (Ethernet and PoE)+4 poles with screw terminal (power supply and I/O) Standard colours: RAL9002 (UEBP4AA), RAL9005 (UEBP4FA)
UEBP7		**Parapet bracket with quick connectors for ULISSE EVO** RJ45 (Ethernet and PoE)+7 poles to weld (power supply and I/O) Standard colours: RAL9002 (UEBP4AA), RAL9005 (UEBP4FA)
UEBW		**Wall assembly support 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

The robust ULISSE PTZ unit guarantees maximum surveillance coverage in any type of external environment - however challenging - without need for maintenance. The ULISSE PTZ brings together high speed and pin-point accuracy, whether being operated manually or in patrol mode.

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. Thanks to the ONVIF-S protocol, and its ability to work with all the most popular VMS', ULISSE2 is able to control everything – from camera functions and positioning, to the wiper, washer pump, pre-sets, illuminators and setup – via the network. ULISSE2 is also compatible with 4K cameras.

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.

		ULISSE2	ULISSE MAXI NETCAM	ULISSE	ULISSE MAXI
Camera	Video output	IP video output	IP video output	Analogue video output	Analogue video output
	Type of camera	Camera Full HD, 30x, 60fps, available as an accessory	–	Versions with Day/Night camera, 720x576 (PAL), 720x480 (NTSC), 36x	–
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 -20° up to +45°	From -40° up to +90°	From -20° up to +45°
	Horizontal speed (variable)	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 100°/s (from 0.02°/s up to 40°/s with illuminators)	From 0.02°/s up to 20°/s
	Tilt speed (variable)	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 40°/s (from 0.02°/s up to 30°/s with illuminators)	From 0.02°/s up to 20°/s
	Position accuracy	0.02°	0.02°	0.02°	0.02°
	Glass cleaning device	Integrated wiper (not for versions with germanium window)	Integrated wiper (not for versions with germanium window)	Versions with built-in wiper	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 , 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	230Vac, 0.4A, 50/60Hz 120Vac, 0.8A, 50/60Hz 24Vac, 4A (8A, with LED illuminators), 50/60Hz
	Power consumption	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	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 -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 -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 -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

ULISSE2 - CONFIGURATION OPTIONS

	VOLTAGE	CAMERA	OPTIONS		
UPTB	**1** 230Vac	**S** Without camera	**W** With wiper	**A**	**00A**
	2 24Vac		**G** With Ø66mm germanium window for thermal cameras		
	3 120Vac		**T** With Ø61mm germanium window for thermal cameras		

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			

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	**P** Day/Night camera 36x optical zoom lens, PAL		**W** With wiper			
	3 120Vac	**N** Day/Night camera 36x optical zoom lens, NTSC		**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			

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			

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 33X	ULISSE RADICAL 18X	ULISSE RADICAL THERMAL	ULISSE RADICAL THERMAL
	Video output	IP video output	IP Video Output	IP video output	Analogue video output
Camera	Type of camera	Day/Night	Day/Night	Thermal camera 640x512 (7.5-8.3Hz, 25-30Hz) Thermal camera 336x256 (7.5-8.3Hz, 25-30Hz)	Thermal camera 640x512 (7.5-8.3Hz, 25-30Hz) Thermal camera 336x256 (7.5-8.3Hz, 25-30Hz)
	Resolution	Full HD (1920x1080)	Full HD (1920x1080)	Full D1 (720x576 PAL, 720x480 NTSC)	Full D1 (720x576 PAL, 720x480 NTSC)
	Zoom	33x	18x	3x (continuous zoom), digital zoom up to 8x, 24x total zoom	3x (continuous zoom), digital zoom up to 8x, 24x total zoom
	Lens	f= from 15.2mm up to 500mm, F3.0 (Thermal compensation system and Visible Cut Filter)	f= from 8.6mm up to 154mm, F2.5	f= from 35 up to 105mm, F1.6	f= from 35mm up to 105mm, F1.6
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 +45° up to -20°	From +90° up to -40°	From +90° up to -40°	From +90° up to -40°
	Horizontal speed (variable)	From 0.02°/s up to 20°/s	From 0.02°/s up to 100°/s (from 0.02°/s up to 40°/s with LED illuminators)	From 0.02°/s up to 100°/s	From 0.02°/s up to 100°/s
	Tilt speed (variable)	From 0.02°/s up to 20°/s	From 0.02°/s up to 50°/s (from 0.02°/s up to 30°/s with LED illuminators)	From 0.02°/s up to 50°/s	From 0.02°/s up to 50°/s
	Position accuracy	0.02°	0.02°	0.02°	0.02°
	Glass cleaning device	Integrated wiper	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	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
	Power consumption	Version with LED illuminators: 190W max Version without LED illuminators: 100W max	Version with LED illuminators: 190W max Version without LED illuminators: 100W max	100W max	100W max
Software	Communication protocol	ONVIF, Profile S	ONVIF, Profile S	ONVIF, Profile S	AMERICAN DYNAMICS, ERNITEC, PANASONIC, PELCO D, VIDEOTEC MACRO
	Video compression	H.264/AVC, MJPEG	H.264/AVC, MJPEG	H.264/AVC, MJPEG	–
Environment	Operating temperature	From -30°C (-22°F) up to +60°C (140°F)	From -40°C (-40°F) up to +60°C (140°F)	From -40°C (-40°F) up to +65°C (149°F)	From -40°C (-40°F) up to +65°C (149°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 RADICAL - CONFIGURATION OPTIONS

	VOLTAGE	CAMERA	LENSES	OPTIONS		VIDEO OUTPUT	
UPK	**1** 230Vac	**Q** Full HD 60fps Sensor CMOS 1/2"	**A** Zoom 18x	**W** With wiper	**A**	**N** ONVIF protocol, Profile S	**00A**
	2 24Vac		**E** Zoom 33x with Thermal Compensation and Visible Cut Filter	**J** With wiper and brackets 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

JOHNSON'S CRITERIA

ULISSE RADICAL 33x

Recognition 9 km / 5.592 miles

Identification 5.9 km / 3.666 miles

0.5m / 1.640 ft

Performances according to Johnson's criteria

ULISSE RADICAL 18x

Recognition 5.5 km / 3.418 miles

Identification 3.5 km / 2.175 miles

0.5m / 1.640 ft

ULISSE RADICAL THERMAL (640x512)

Recognition 380 m / 0.236 miles

Identification 237 m / 0.147 miles

Detection 1520 m / 0.944 miles

0.5m / 1.640 ft

Recognition 1748 m / 1.086 miles

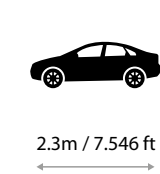Identification 1090 m / 0.667 miles

Detection 6992 m / 4.345 miles

2.3m / 7.546 ft

ULISSE RADICAL THERMAL (336x256)

Recognition 460 m / 0.286 miles

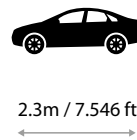Identification 280 m / 0.174 miles

Detection 1900 m / 1.181 miles

0.5m / 1.640 ft

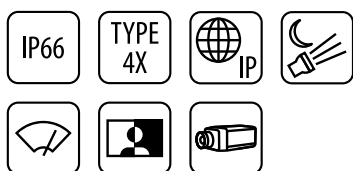Recognition 2400 m / 1.491 miles

Identification 950 m / 0.590 miles

Detection 9700 m / 6.027 miles

2.3m / 7.546 ft

Performances according to Johnson's criteria

ULISSE PTZ CAMERAS AND UNITS

ULISSE COMPACT

IP66 | TYPE 4X | IP |

 |

Onvif® | SQ

ULISSE COMPACT is an advanced range of compact PTZ cameras, designed to ensure dynamic and continuous surveillance of large outdoor areas and to withstand difficult environmental conditions, without the need for maintenance.

The high performance levels and the wide range of models and options mean this exceptional PTZ is the ideal choice for any requirement when it comes to the external monitoring of infrastructures and city centres, of traffic on the road and highways, and of complex scenes 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 heads.

		ULISSE COMPACT DELUX	ULISSE COMPACT	ULISSE COMPACT	ULISSE COMPACT THERMAL
	Video output	IP video output	IP video output	Analogue video output	Analogue video output
Camera	Type of camera	Day/Night	Day/Night	Day/Night	Day/Night + Thermal camera
	Resolution	Full HD (1920x1080)	720x576 (PAL) 720x480 (NTSC)	720x576 (PAL) 720x480 (NTSC)	Day/Night: 720x576 (PAL), 720x480 (NTSC) Thermal camera: 640x512 (7.5-8.3Hz, 25-30Hz), 336x256 (7.5-8.3Hz, 25-30Hz)
	Minimum illumination	Colour: 0.006lx B/W: 0.0006lx	Colour: 0.1lx B/W: 0.01lx	Colour: 0.1lx B/W: 0.01lx	Day/Night: 0.1lx (Colour), 0.01lx (B/W)
	Zoom	30x (16x, digital Zoom)	36x (12x, digital Zoom)	36x (12x, digital Zoom)	Day/Night (optical zoom): 36x Thermal camera (digital Zoom): 2x, 4x (336x256) 2x, 4x, 8x (640x512)
	Lens	f= from 4.5mm (wide) up to 135mm (tele), from F1.6 up to F9.6	f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5	f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5	Day/Night: f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5 Thermal camera: 35mm (1.38in) or 25mm (0.98in)
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 -90° up to +90°	From -90° up to +90°	From -90° up to +90°	From -90° up to +90°
	Horizontal speed (variable)	From 0.1°/s up to 200°/s	From 0.1°/s up to 200°/s	From 0.1°/s up to 200°/s	From 0.1°/s up to 200°/s
	Tilt speed (variable)	From 0.1°/s up to 200°/s	From 0.1°/s up to 200°/s	From 0.1°/s up to 200°/s	From 0.1°/s up to 200°/s
	Position accuracy	0.05°	0.05°	0.05°	0.05°
	Version with LED illuminators	√	√	√	–
	Glass cleaning device	Integrated wiper	Integrated wiper	Integrated wiper	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	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
	Power consumption	125W max	125W max	125W max	125W max
Software	Communication protocol	ONVIF, Profile S and Profile Q	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, JPEG, MPEG4	H.264/AVC, MJPEG	–	–
Environment	Operating temperature	From -40°C (-40°F) up to +60°C (140°F) (continuous working)	From -40°C (-40°F) up to +60°C (140°F) (with heater)	From -40°C (-40°F) up to +60°C (140°F) (with heater)	From -40°C (-40°F) up to +60°C (140°F) (with heater)
	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 COMPACT DELUX - CONFIGURATION OPTIONS

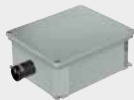|	VOLTAGE	CAMERA	OPTIONS		VIDEO OUTPUT	
UCHD	**1** 230Vac	**1** Videotec super low-light Day/Night 30X zoom, Full HD camera	**W** With wiper, 1 input, 1 output	**A**	**Z** IP H.264/AVC control, ONVIF protocol Profile S and Profile Q	**00B**
	2 24Vac		**N** With wiper, 1 input, 1 output, IR LED illuminator 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			

ULISSE COMPACT - CONFIGURATION OPTIONS

	VOLTAGE	DAY/NIGHT CAMERA		OPTIONS		VIDEO OUTPUT	
UC	**1** 230Vac	**P** Day/Night camera 36x optical zoom lens, PAL	**V** With I/O alarm board	**S** Without accessories	**A**	**0** Analog control	**00A**
	2 24Vac	**N** Day/Night camera 36x optical zoom lens, NTSC		**W** With wiper		**Z** IP H.264/AVC control, Protocol ONVIF Profile S	
	3 120Vac			**Q** With IR LED illuminator 30°, 850nm			
				R With IR LED illuminator 10°, 850nm			
				U With wiper and IR LED illuminator 30°, 850nm			
				T With wiper and IR LED illuminator 10°, 850nm			
				M With IR LED illuminator 10°, 940nm			
				N With wiper and IR LED illuminator 10°, 940nm			
				Z With wiper and LED illuminator 30°, white light			

ULISSE COMPACT THERMAL - CONFIGURATION OPTIONS

	VOLTAGE	DAY/NIGHT CAMERA	THERMAL CAMERA		VIDEO OUTPUT		FREQUENCY
UCT	**1** 230Vac	**P** Day/Night camera 36x optical zoom lens, PAL	**A** Thermal camera 35mm - 336x256	**W** With integrated wiper	**A**	**0** Analog control	**00A**	**-** 7.5-8.3Hz
	2 24Vac	**N** Day/Night camera 36x optical zoom lens, NTSC	**B** Thermal camera 25mm - 336x256				**H** 25-30Hz
	3 120Vac		**D** Thermal camera 35mm - 640x512				
			E Thermal camera 25mm - 640x512				

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

		ULISSE2	ULISSE	ULISSE MAXI NETCAM	ULISSE MAXI	ULISSE RADICAL 33X	ULISSE RADICAL 18X	ULISSE RADICAL THERMAL	ULISSE COMPACT DELUX	ULISSE COMPACT	ULISSE COMPACT THERMAL
CAMHD30X	**Add-on camera Full HD1080p, 30x (4.3-129mm), 60fps** Day/Night Full HD 30x Image Device: 1/2.8 type Exmor™ CMOS sensor Effective pixels: 2.38 megapixel (approx) Optical zoom: 30x (360x, with digital zoom)	√	–	–	–	–	–	–	–	–	–
OUCHWR	**Complete front flange with heated glass for ULISSE COMPACT**	–	–	–	–	–	–	–	–	√	–
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

		ULISSE2	ULISSE	ULISSE MAXI NETCAM	ULISSE MAXI	ULISSE RADICAL 33X	ULISSE RADICAL 18X	ULISSE RADICAL THERMAL	ULISSE COMPACT DELUX	ULISSE COMPACT	ULISSE COMPACT THERMAL
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

		ULISSE2	ULISSE	ULISSE MAXI NETCAM	ULISSE MAXI	ULISSE RADICAL 33X	ULISSE RADICAL 18X	ULISSE RADICAL THERMAL	ULISSE COMPACT DELUX	ULISSE COMPACT	ULISSE COMPACT THERMAL
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)	√	√	√	√	√	√	√	√	√	√
UCCMA	**Ceiling bracket for upside down mounting and working of ULISSE COMPACT** Made of galvanized and painted steel Safety cord in AISI316L stainless steel Internal cable management	−	−	−	−	−	−	−	√	√	√

STAINLESS STEEL PTZ CAMERAS

NXPTZ

IP66   IP67   IP68   IP69

TYPE 4X   IP   ◁   ⬛

Onvif® | S Q
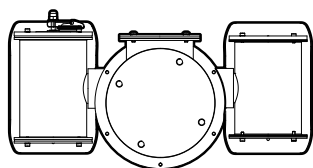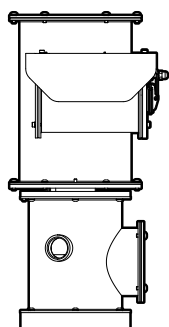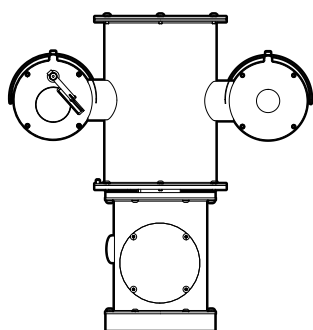
The products available in the NXPTZ range of PTZ cameras are specialised for professional video surveillance. They meet the complex needs of both offshore and onshore maritime applications and industrial and corrosive environments of all kinds. These PTZs guarantee high functional performance thanks to the extreme precision of the construction process and the high-quality stainless steel, which is completely resistant to rust and corrosion. Its IP66/IP68 rating means that the NXPTZs are completely protected against the elements and temporary immersion in water, while the IP69 rating allows it to be cleaned with high-pressure, high-temperature water jets.

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).

The NXPTZ 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.

		NXPTZ DELUX	NXPTZ
	Video output	IP video output	IP video output
Camera	Type of camera	Day/Night	Day/Night
	Resolution	Full HD (1920x1080)	720x576 (PAL) 720x480 (NTSC)
	Minimum illumination	Colour: 0.006lx B/W: 0.0006lx	Colour: 0.1lx B/W: 0.01lx
	Zoom	30x (16x, digital Zoom)	36x (12x, digital Zoom)
	Lens	f= from 4.5mm (wide) up to 135mm (tele), from F1.6 up to F9.6	f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5
Mechanical	Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Cable	Pre-wired multipolar cable	Pre-wired multipolar cable
	Horizontal rotation	360°, continuous rotation	360°, continuous rotation
	Vertical rotation	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
	Tilt speed (variable)	From 0.1°/s up to 100°/s	From 0.1°/s up to 100°/s
	Position accuracy	0.02°	0.02°
	Glass cleaning device	Integrated wiper	Integrated wiper
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
	Power consumption	120W max	120W max
Software	Communication protocol	ONVIF, Profile S and Profile Q	ONVIF, Profile S
	Serial communication protocol	–	–
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4	H.264/AVC, MJPEG
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 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	IP protection degree	IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69
	Marine Certification	Lloyd's Register Marine Type Approval (the 24Vac versions require a filter accessory FM1010)	Lloyd's Register Marine Type Approval (the 24Vac and 120Vac versions require a filter accessory FM1010)

		NXPTZ	NXPTZT	NXPTZT
	Video output	Analogue video output	IP video output	Analogue video output
Camera	Type of camera	Day/Night	Thermal camera + Day/Night	Thermal camera + Day/Night
	Resolution	720x576 (PAL) 720x480 (NTSC)	Day/Night: 720x576 (PAL), 720x480 (NTSC) Thermal camera: 640x512 (7.5-8.3Hz, 25-30Hz), 336x256 (7.5-8.3Hz, 25-30Hz)	Day/Night: 720x576 (PAL), 720x480 (NTSC) Thermal camera: 640x512 (7.5-8.3Hz, 25-30Hz), 336x256 (7.5-8.3Hz, 25-30Hz)
	Minimum illumination	Colour: 0.1lx B/W: 0.01lx	Day/Night: 0.1lx (Colour), 0.01lx (B/W)	Day/Night: 0.1lx (Colour), 0.01lx (B/W)
	Zoom	36x (12x, digital Zoom)	Day/Night (optical zoom): 36x Thermal camera (digital Zoom): 2x, 4x (336x256) 2x, 4x, 8x (640x512)	Day/Night (optical zoom): 36x Thermal camera (digital Zoom): 2x, 4x (336x256) 2x, 4x, 8x (640x512)
	Lens	f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5	Day/Night: f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5 Thermal camera: 35mm (1.38in) or 25mm (0.98in)	Day/Night: f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5 Thermal camera: 35mm (1.38in) or 25mm (0.98in)
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	Integrated wiper
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
Software	Communication protocol	–	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	–
Environment	Operating temperature	From -40℃ (-40°F) up to +60℃ (140°F)	From -40℃ (-40°F) up to +60℃ (140°F)	From -40℃ (-40°F) up to +60℃ (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, 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 and 120Vac versions require a filter accessory FM1010)	Lloyd's Register Marine Type Approval (the 24Vac and 120Vac versions require a filter accessory FM1010)

NXPTZ DELUX - CONFIGURATION OPTIONS

	VOLTAGE								VIDEO OUTPUT	
NXPTZHD	**1** 230Vac	**1** Videotec super low-light Day/Night 30X zoom, Full HD camera	**V** With alarm board	**W** With wiper	**0**				**Z** IP H.264/AVC control, ONVIF protocol Profile S and Profile Q	**00B**
	2 24Vac									
	3 120Vac									

NXPTZ - CONFIGURATION OPTIONS

	VOLTAGE	DAY/NIGHT CAMERA				VIDEO OUTPUT	
NXPTZ	**1** 230Vac	**P** Day/Night camera 36x optical zoom lens, PAL	**V** With alarm board	**W** With wiper	**0**	**0** Analog control	**00A**
	2 24Vac	**N** Day/Night camera 36x optical zoom lens, NTSC				**Z** IP H.264/AVC control, Protocol ONVIF Profile S	
	3 120Vac						

NXPTZT - CONFIGURATION OPTIONS

	VOLTAGE	DAY/NIGHT CAMERA	THERMAL CAMERA			VIDEO OUTPUT		FREQUENCY
NXPTZT	**1** 230Vac	**P** Day/Night camera 36x optical zoom lens, PAL	**A** Thermal camera 35mm - 336x256	**W** With wiper	**0**	**0** Analog control	**00A**	**-** 7.5-8.3Hz
	2 24Vac	**N** Day/Night camera 36x optical zoom lens, NTSC	**B** Thermal camera 25mm - 336x256			**Z** IP H.264/AVC control, Protocol ONVIF Profile S		**H** 25-30Hz
	3 120Vac		**D** Thermal camera 35mm - 640x512					
			E Thermal camera 25mm - 640x512					

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

NXPTZ - ACCESSORIES		NXPTZ DELUX	NXPTZ	NXPTZT
CMS-CMA	**Armoured and unarmoured multi-polar 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	√	√	√
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	√	√	√
NXPTZ - 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

IP66 | TYPE 4X | IP |
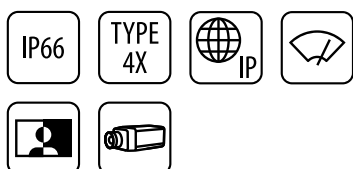
ONVIF® | SQ

The MAXIMUS MPX range of explosion-proof PTZ cameras guarantees exceptional performance when monitoring critical processes in areas where there is a risk of explosion. It is, therefore, the ideal choice for video surveillance of refineries, petrochemical plants, offshore oil rigs or across chemical industries (Zone 1 and 2, Group IIC T6 for gas, and Zone 21 and 22, Group IIIC T85°C for dust).
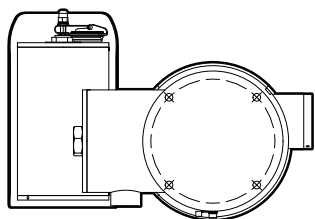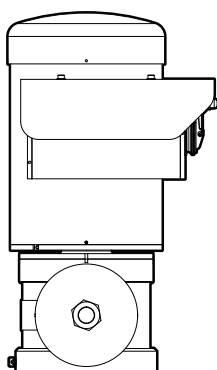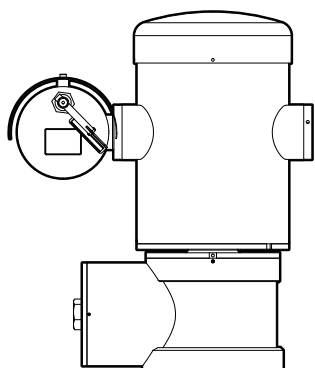
The DELUX imaging and encoder technology, thanks to the superior light sensitivity of the sensor, can make bright recordings with sharp, clearly defined colours in the very low light conditions typically found at night, working at as low as 0.006 lux (0.0006 lux in black and white).

The MAXIMUS MPX 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 MPX - CERTIFICATIONS AND MARKINGS	
CERTIFICATION	**MARKING**
ATEX	Ⓔ II 2G Ex db IIC T6 Gb Ta -40°C to +60°C Ⓔ II 2D Ex tb IIIC T85°C Db Ta -40°C to +60°C IP66
IECEx	Ex db IIC T6 Gb Ta -40°C to +60°C Ex tb IIIC T85°C Db Ta -40°C to +60°C IP66
EAC EX	Ex II 2G Ex db IIC T6 Gb Ta -40°C to +60°C Ex II 2D Ex tb IIIC T85°C Db Ta -40°C to +60°C IP66
INMETRO	Ex db IIC T6 Gb -40°C ≤ Ta ≤ +60°C Ex tb IIIC T85°C Db -40°C ≤ Ta ≤ +60°C IP66
KCs	Ex d IIC T6 Ex tb IIIC T85°C -40°C ≤ Ta ≤ +60°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, Group A, B, C and D, T6 Class II, Division 2, Group F and G, T6
UL listed for Canada (only 24Vac)	Ex db IIC T6 Gb Ex tb IIIC T85°C Db Class I, Division 2, Group A, B, C and D, T6 Class II, Division 2, Group F and G, T6

		MAXIMUS MPX DELUX	MAXIMUS MPX
	Video output	IP video output	IP video output
Camera	Type of camera	Day/Night	Day/Night
	Resolution	Full HD (1920x1080)	720x576 (PAL) 720x480 (NTSC)
	Minimum illumination	Colour: 0.006lx B/W: 0.0006lx	Colour: 0.1lx B/W: 0.01lx
	Zoom	30x (16x, digital Zoom)	36x (12x, digital Zoom)
	Lens	f= from 4.5mm (wide) up to 135mm (tele), from F1.6 up to F9.6	f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5
Mechanical	Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Cable glands	1 3/4" NPT hole for cable gland	1 3/4" NPT hole for cable gland
	Horizontal rotation	360°, continuous rotation	360°, continuous rotation
	Vertical rotation	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
	Tilt speed (variable)	From 0.1°/s up to 100°/s	From 0.1°/s up to 100°/s
	Position accuracy	0.02°	0.02°
	Glass cleaning device	Integrated wiper	Integrated wiper
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
	Power consumption	120W max	120W max
Software	Communication protocol	ONVIF, Profile S and Profile Q	ONVIF, Profile S
	Serial communication protocol	–	–
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4	H.264/AVC, MJPEG
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 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	IP protection degree	IP66	IP66
	Marine Certification	Lloyd's Register Marine Type Approval (the 24Vac versions require a filter accessory FM1010)	Lloyd's Register Marine Type Approval (the 24Vac and 120Vac versions require a filter accessory FM1010)

		MAXIMUS MPX	MAXIMUS MPXT	MAXIMUS MPXT
	Video output	Analogue video output	IP video output	Analogue video output
Camera	Type of camera	Day/Night	Thermal camera + Day/Night	Thermal camera + Day/Night
	Resolution	720x576 (PAL) 720x480 (NTSC)	Day/Night: 720x576 (PAL), 720x480 (NTSC) Thermal camera: 640x512 (7.5-8.3Hz, 25-30Hz), 336x256 (7.5-8.3Hz, 25-30Hz)	Day/Night: 720x576 (PAL), 720x480 (NTSC) Thermal camera: 640x512 (7.5-8.3Hz, 25-30Hz), 336x256 (7.5-8.3Hz, 25-30Hz)
	Minimum illumination	Colour: 0.1lx B/W: 0.01lx	Day/Night: 0.1lx (Colour), 0.01lx (B/W)	Day/Night: 0.1lx (Colour), 0.01lx (B/W)
	Zoom	36x (12x, digital Zoom)	Day/Night (optical zoom): 36x Thermal camera (digital Zoom): 2x, 4x (336x256) 2x, 4x, 8x (640x512)	Day/Night (optical zoom): 36x Thermal camera (digital Zoom): 2x, 4x (336x256) 2x, 4x, 8x (640x512)
	Lens	f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5	Day/Night: f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5 Thermal camera: 35mm (1.38in) or 25mm (0.98in)	Day/Night: f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5 Thermal camera: 35mm (1.38in) or 25mm (0.98in)
Mechanical	Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Cable glands	1 3/4" NPT hole for cable gland	1 3/4" NPT hole for cable gland	1 3/4" NPT hole for cable gland
	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	Integrated wiper
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
Software	Communication protocol	–	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	–
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)	From -40°C (-40°F) up to +60°C (140°F)
	Relative humidity	From 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	IP protection degree	IP66	IP66	IP66
	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 and 120Vac versions require a filter accessory FM1010)	Lloyd's Register Marine Type Approval (the 24Vac and 120Vac versions require a filter accessory FM1010)

MAXIMUS MPX DELUX - CONFIGURATION OPTIONS

	VOLTAGE	CAMERA				VIDEO OUTPUT	
MPXHD	**1** 230Vac	**1** Videotec super low-light Day/Night 30X zoom, Full HD camera	**V** With alarm board	**W** With wiper	**0**	**Z** IP H.264/AVC, ONVIF protocol Profile S and Profile Q	**00B**
	2 24Vac						
	3 120Vac						

MAXIMUS MPX - CONFIGURATION OPTIONS

	VOLTAGE	DAY/NIGHT CAMERA				VIDEO OUTPUT	
MPX	**1** 230Vac	**P** Day/Night camera 36x optical zoom lens, PAL	**V** With alarm board	**W** With wiper	**0**	**0** Analog control	**00A**
	2 24Vac	**N** Day/Night camera 36x optical zoom lens, NTSC				**Z** IP H.264/AVC, Protocol ONVIF Profile S	
	3 120Vac						

MAXIMUS MPXT - CONFIGURATION OPTIONS

	VOLTAGE	DAY/NIGHT CAMERA	THERMAL CAMERA			VIDEO OUTPUT		FRE-QUENCY
MPXT	**1** 230Vac	**P** Day/Night camera 36x optical zoom lens, PAL	**A** Thermal camera 35mm, 336x256	**W** With wiper	**0**	**0** Analog control	**00A**	**-** 7.5-8.3Hz
	2 24Vac	**N** Day/Night camera 36x optical zoom lens, NTSC	**B** Thermal camera 25mm, 336x256			**Z** IP H.264/AVC, Protocol ONVIF Profile S		**H** 25-30Hz
	3 120Vac		**D** Thermal camera 35mm, 640x512					
			E Thermal camera 25mm, 640x512					

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

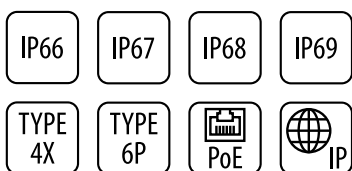| MAXIMUS MPX - ACCESSORIES		MAXIMUS MPX DELUX	MAXIMUS MPX	MAXIMUS MPXT
OCABLMPX - OCABLMPXARM	**Multi-polar cables for explosion-proof Pan & Tilt** Pre-cabled for Ethernet, video, I/O and telemetry connections Equipped with barrier cable gland Resistant to oil, flames and ultra-violet rays Available in an armoured and unarmoured version Designed for potentially explosive zones Available in 2 lengths, standard or customised length	√	√	√
CMS-CMA	**Armoured and unarmoured multi-polar 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 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	√	√	√
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 - BRACKETS				
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)	√	√	√

STAINLESS STEEL HOUSINGS AND CAMERAS

GENERAL PURPOSE CAMERA HOUSINGS

EX-PROOF CAMERAS AND HOUSINGS

MAXIMUS MMX

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

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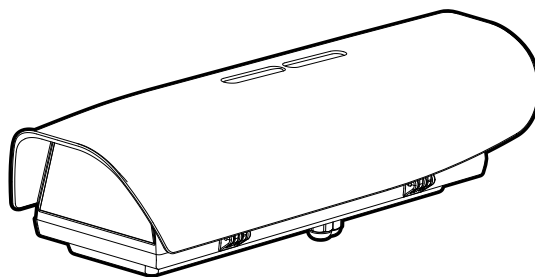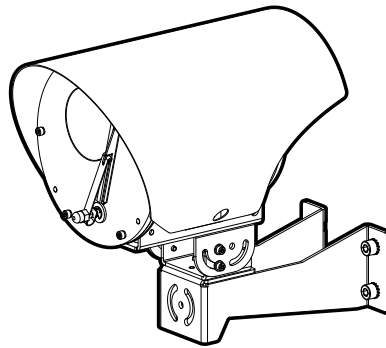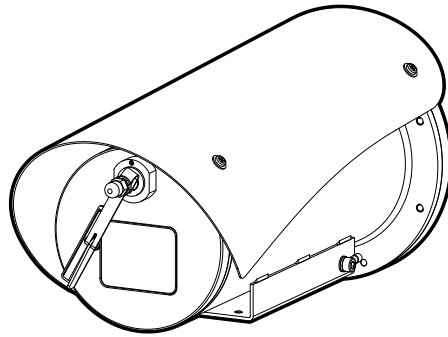
The explosion-proof Full HD camera MAXIMUS MMX is perfect for efficient video surveillance and control of processes in hazardous environments where the atmosphere is potentially explosive due to the presence of inflammable gases or dust, typical of the Oil&Gas, marine or industrial and foodstuff sectors.

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 multi-polar 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 - CERTIFICATIONS AND MARKINGS	
CERTIFICATION	MARKING
ATEX	⟨Ex⟩ II 2 G Ex db IIB T6...T5 Gb ⟨Ex⟩ II 2 D Ex tb IIIC T85℃...T100℃ Db -40℃ ≤ Ta ≤ +65℃ or +70℃
IECEX	Ex db IIB T6...T5 Gb Ex tb IIIC T85℃...T100℃ Db -40℃ ≤ Ta ≤ +65℃ or +70℃
EAC Ex	Ex II 2G Ex db IIB T6...T5 Gb Ex II 2D Ex tb IIIC T85℃...T100℃ Db -40℃ ≤ Ta ≤ +65℃ or +70℃
Hazardous Location America[1]	Class I, Zone 1, AEx db IIB T6...T5 Zone 21, AEx tb IIIC T85℃...T100℃ Class I, Div 2 Group C, D Class II, Div 2, Group F and G -40℃ ≤ Ta ≤ +65℃ or +70℃
Hazardous Location Canada[1]	Ex db IIB T6...T5 Gb Ex tb IIIC T85℃...T100℃ Db Class I, Div 2 Group C, D Class II, Div 2, Group F and G -40℃ ≤ Ta ≤ +65℃ or +70℃

[1] UL certification only for versions without armoured cable

		MAXIMUS MMX 10X	MAXIMUS MMX 3X
	Video output	IP video output	IP video output
Camera	Type of camera	Day/Night	Day/Night
	Resolution	Full HD (1920x1080)	Full HD (1920x1080)
	Zoom	10x (120x with digital zoom)	3x (36x with digital zoom)
	Lens	f= from 3.8mm (wide) up to 38mm (tele), from F1.8 up to F3.4	f= from 3.0mm (wide) up to 9.0mm (tele), from F1.2 up to F2.1
Mechanical	Material	AISI 316L stainless steel construction	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) multi-polar armoured cable	Cable gland with gasket Ex d 1/2"NPT only for version with pre-installed, 4m (13ft)/10m (32.8ft) multi-polar armoured cable
	Supplied brackets	Supports for wall, ceiling or parapet installation	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	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)	21W (24Vac, 1.32A, 50/60Hz) 20W (24Vdc, 0.9A) 21W (PoE+, 0.46A)
Software	Communication protocol	ONVIF, Profile S ONVIF, Profilo Q	ONVIF, Profile S ONVIF, Profilo Q
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4	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)	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)	From 10% up to 95% (no condensation)
	IP protection degree	IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69
	Marine Certification	Lloyd's Register Marine Type Approval	–

MAXIMUS MMX - ACCESSORIES

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 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® | SQ

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 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).

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 RANGE - CERTIFICATIONS AND MARKINGS	
CERTIFICATION	**MARKING**
ATEX	II 2 G Ex db IIC T5 Gb II 2 D Ex tb IIIC T100°C Db IP66/IP68
IECEx	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68
INMETRO	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68
EAC Ex	Ex II 2G Ex db IIC T5 Gb Ex II 2D Ex tb IIIC T100°C Db IP66/IP68
ETL listed for USA[1]	Class I Zone 1 AEx db IIC T5 Gb Class I Div 2 Group A,B,C&D T5 Zone 21 AEx tb IIIC T100°C Db Class II Div 2 Group E,F&G T100°C
ETL listed for Canada[1]	Ex db IIC T5 Gb Class I Div 2 Group A,B,C,D T5 Ex tb IIIC T100°C Db Class II Div 2 Group E, F and G T100°C

[1] ETL certifications only for versions with cable tail

		MAXIMUS MVX DELUX	MAXIMUS MVX	MAXIMUS MVXT	MAXIMUS MVXT
	Video output	IP video output	Analogue video output	IP video output	Analogue video output
Camera	Type of camera	Day/Night	Day/Night	Thermal camera	Thermal camera
	Resolution	Full HD (1920x1080)	720x576 (PAL) 720x480 (NTSC)	Thermal camera: 640x512 (7.5-8.3Hz, 25-30Hz), 336x256 (7.5-8.3Hz, 25-30Hz)	Thermal camera: 640x512 (7.5-8.3Hz, 25-30Hz), 336x256 (7.5-8.3Hz, 25-30Hz)
	Minimum illumination	Colour: 0.006lx B/W: 0.0006lx	Colour: 0.1lx B/W: 0.01lx	–	–
	Zoom	30x (16x digital Zoom)	36x (12x, digital Zoom)	Thermal camera: 2x, 4x (336x256) 2x, 4x, 8x (640x512)	Thermal camera: 2x, 4x (336x256) 2x, 4x, 8x (640x512)
	Lens	f= from 4.5mm (wide) up to 135mm (tele), from F1.6 up to F9.6	f= from 3.4mm (wide) up to 122.4mm (tele), from F1.6 up to F4.5	Thermal camera: 35mm (1.38in) or 19mm (0.7in) or 9mm (0.35in)	Thermal camera: 35mm (1.38in) or 19mm (0.7in) or 9mm (0.35in)
Mechanical	Material	AISI 316L stainless steel construction	AISI 316L stainless steel construction	AISI 316L stainless steel construction	AISI 316L stainless steel construction
	Cable glands	Cable gland with gasket Ex d 3/4"NPT and 4m/10m (13ft/33ft) preinstalled multipolar armored 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 armored 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 armored 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 armored 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	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	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)	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 S and Profile Q	–	ONVIF, Profile S	–
	Serial communication protocol	–	PANASONIC, PELCO D, VIDEOTEC MACRO	–	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)	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 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, IP67, IP68, IP69	IP66, IP67, IP68, IP69	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)	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 - ACCESSORIES	MAXIMUS MVX DELUX	MAXIMUS MVX	MAXIMUS MVXT
CMS-CMA		**Armoured and unarmoured multi-polar 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 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	√	√	√
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			
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 |
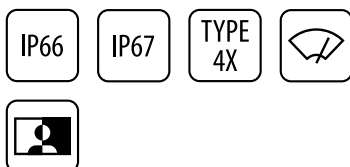
The MAXIMUS MHX range of explosion-proof housings have been designed to meet the strictest standards required for installation in hazardous environments where gases and flammable dusts may be present (Zone 1 and 2, Group IIC for gas and Ex tb Zone 21 and 22 for dust). Made entirely of electro-polished 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 CERTIFICATIONS AND MARKINGS	
CERTIFICATION	**MARKING**
ATEX	⟨Ex⟩ II 2G Ex db IIC T6 Gb ⟨Ex⟩ II 2D Ex tb IIIC T85°C Db Ta -40°C to +60°C
IECEX	Ex db IIC T6 Gb Ex tb IIIC T85°C Db Ta -40°C to +60°C
EAC Ex	Ex II 2G Ex db IIC T6 Gb Ex II 2D Ex tb IIIC T85°C Db, Ta -40°C to +60°C, IP66/IP67
INMETRO	Ex db IIC T6 Gb Ex tb IIIC T85°C Db Ta -40°C a/to +60°C
KCs	Ex d IIC T6 Ex tb IIIC T85°C
UL listed for USA (only 24Vac)[1]	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
UL listed for Canada (only 24Vac)[1]	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. Operating temperature -40°C / + 54°C (-40°F / 129.2°F)

		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 3/4" NPT holes for cable entry	2 3/4" NPT holes 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 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	IP protection degree	IP66, IP67	IP66, IP67

MAXIMUS MHX - ACCESSORIES			MAXIMUS MHX	MAXIMUS MHXT
CMS-CMA		**Armoured and unarmoured multi-polar 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 Ex d for Zones 1 and 2, Group IIC (Gas) and Ex tb for Zones 21 and 22 (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.

EXH CERTIFICATIONS AND MARKINGS	
CERTIFICATION	MARKING
ATEX	II 2G Ex d IIC T6 Gb II 2D Ex t IIIC T85 °C Db IP66
IECEx[1]	Ex d IIC T6 Gb Ex t IIIC T85 °C Db IP66
EAC EX	Ex II 2G Ex d IIC T6 Gb, -40°C/+50°C EX II 2D Ex t IIIC T85°C Db -40°C/+50°C, IP66
KCs[1]	Ex d IIC T6 Ex tb IIIC T85°C
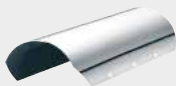
[1] Certification valid only for versions with extra-clear glass.

		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 3/4" NPT holes for cable entry	2 3/4" NPT holes 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 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	IP protection degree	IP66	IP66

		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 | PoE | |

IP

NVIF® | S Q

NVX is an IP FULL HD super low-light camera with high corrosion resistance. This camera incorporates the DELUX imaging and encoding technology for recording incredibly clear colour video day or night.

The NVX external housing is made entirely from AISI316L stainless steel and has a compact and lightweight design that, along with the quick connectors, helps installation and maintenance. The modular support for wall, ceiling or parapet mounting is a standard feature.

It is available a version with integrated wiper and a version with polycarbonate window for applications in the food industry.

NVX has exceptional corrosion resistance, a wide operational temperature range and IP66/IP67/IP68/IP69 protection. These features mean it is well suited to marine and industrial areas, motorway tunnels and rail applications.

The NVX 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.

		NVX
	Video output	IP video output
Camera	Type of camera	Day/Night
	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
Mechanical	Material	AISI 316L stainless steel construction
	Unit weight	4.9kg (10.8lb) (fastening support included)
	Windows for camera	Glass or polycarbonate
	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)
	Supply voltage/Current consumption (version with board for video analysis)	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)
Software	Communication protocol	ONVIF, Profile S and Profile Q
	Video compression	H.264/AVC, MJPEG, JPEG, MPEG4
Environment	Operating temperature	From -40°C (-40°F) up to +65°C (149°F) (continuous working)
	Relative humidity	From 10% up to 95% (no condensation)
	IP protection degree	IP66, IP67, IP68, IP69
	Marine Certification	Lloyd's Register Marine Type Approval
	Compliance to railway applications	EN50121-4 (only with 24Vac or 24Vdc power supply)

NVX - ACCESSORIES

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

NXM
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 AISI316L, 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.

		NXM	NXM36	NXM36 HI-POE	NTM
Mechanical	Material	AISI 316L stainless steel construction	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	Tempered extra clear glass	Germanium
	Internal usable area	88x86x334mm (3.5x3.4x13.1in) (without accessories)	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)	2xPG13.5 (nickel-plated brass for external connections)
	Glass cleaning device	Wiper (accessory) Air barrier (accessory)	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	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)	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)	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 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, IP67, IP68	IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69	IP66, IP67
	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 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	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 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	IP protection degree	IP66, IP67	IP66, IP67

STAINLESS STEEL HOUSINGS AND CAMERAS - ACCESSORIES

		NXM	NXM36	NXM36 HI-POE	NTM	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	√	–	–	–	–	–	√	–
NXFIGRU	**Air filtering group** To be combined with ONXAB2 air barrier to clean the air from oil and water particles, 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)	–	–	–	–	–	–	√	–
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

			NXM	NXM36	NXM36 HI-POE	NTM	NXL	NTL	NXW	NTW
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
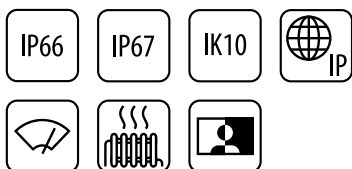
The wide range of housings, made from aluminium or innovative plastic materials, meets every requirement for use in external environments. The numerous supports and adapters, with or without cable protection, provide a solution for any type of mounting. There are also a large variety of accessories available: 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 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, 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 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	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℃ (-4°F) up to +60℃ (140°F)	Version with heater: from -20℃ (-4°F) up to +60℃ (140°F)	Version with heater: from -30℃ (-22°F) up to +60℃ (140°F)	Version with heater: from -55℃ (-67°F) up to +60℃ (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, 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)

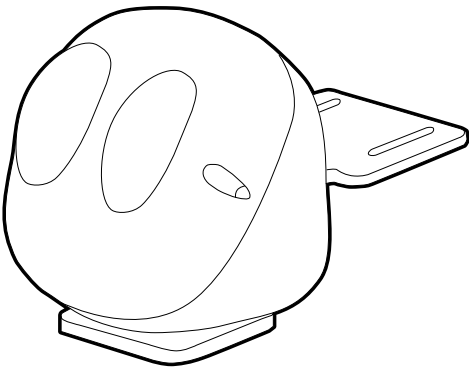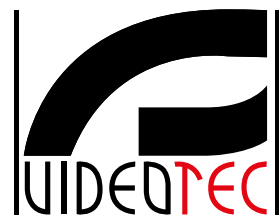|		HEG	HTG
Mechanical	Material	Constructed from aluminium	Constructed from aluminium
	Housing's window	Extra clear glass	Germanium
	Internal usable area	134x88x273mm (5.1x3.5x10.7in)	134x88x273mm (5.1x3.5x10.7in)
	Cable glands	3 x M16	3 x M16
	Glass cleaning device	Wiper (accessory)	–
Electrical	Supply 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℃ (-58°F) up to +60℃ (140°F)	Version with heater: from-20℃ (-4°F) up to +60℃ (140°F)
	Relative humidity	From 10% up to 95% (no condensation)	From 10% up to 95% (no condensation)
	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℃ (-4°F) up to +60℃ (140°F)	Version with heater: from -20℃ (-4°F) up to +60℃ (140°F)	Version with heater: from -20℃ (-4°F) up to +60℃ (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

TELEMETRY
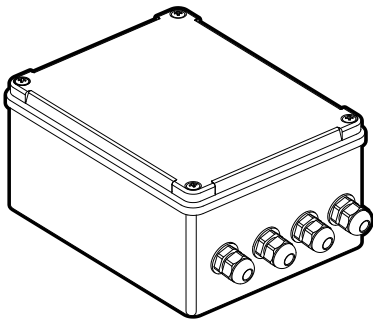
P&T MOTORS

PTH300

IP66

The outdoor Pan&Tilt devices are designed and tested for the use in the severest operation conditions and under continuous stress.PTH300 allows a maximum horizontal speed of 6°/s, a vertical speed of 3°/s and a horizontal rotation of 330°, vertical 360°. The Autopan function is possible for limited periods of time. A preset version is also available, equipped with potentiometers, which allows the presets by means of our telemetry systems.

Die-cast corrosion-proof aluminium.

A wide range of control systems is available, from a simple desktop controller to the most advanced range of control keyboards and telemetry receivers with microprocessors.

PTH300

Outdoor P&T motor
Constructed from corrosion-proof aluminium
For loads up to 12kg(26lb) balanced
IP66
Optional preset
Standard autopan function
24Vac and 230Vac, 50/60Hz versions
Internally adjustable horizontal and vertical limit switches
Horizontal fixed speed 6°/s, vertical fixed speed 3°/s
Not compatible with HGV

PTH300	

P&T MOTORS - BRACKETS

PTAC		**Wall bracket for P&T motors** Made of aluminium Load rating: 35kg (77lb) Length: 360mm (14.2in)
WCWA		**Corner mount adaptor** Made of steel Load rating: 30kg (66lb)
WCWGC		**Corner mount adaptor** Made of steel Load rating: 50kg (110lb)
PTCC1		**Pole mount adaptor** Made of aluminium For pole diameters: from 80mm (3.1in) up to 150mm (5.9in) Load rating: 50kg (110lb)
WFWBTA		**Parapet bracket** Made of aluminium Load rating: 50kg (110lb) Length: 185mm (7.3in)
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

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

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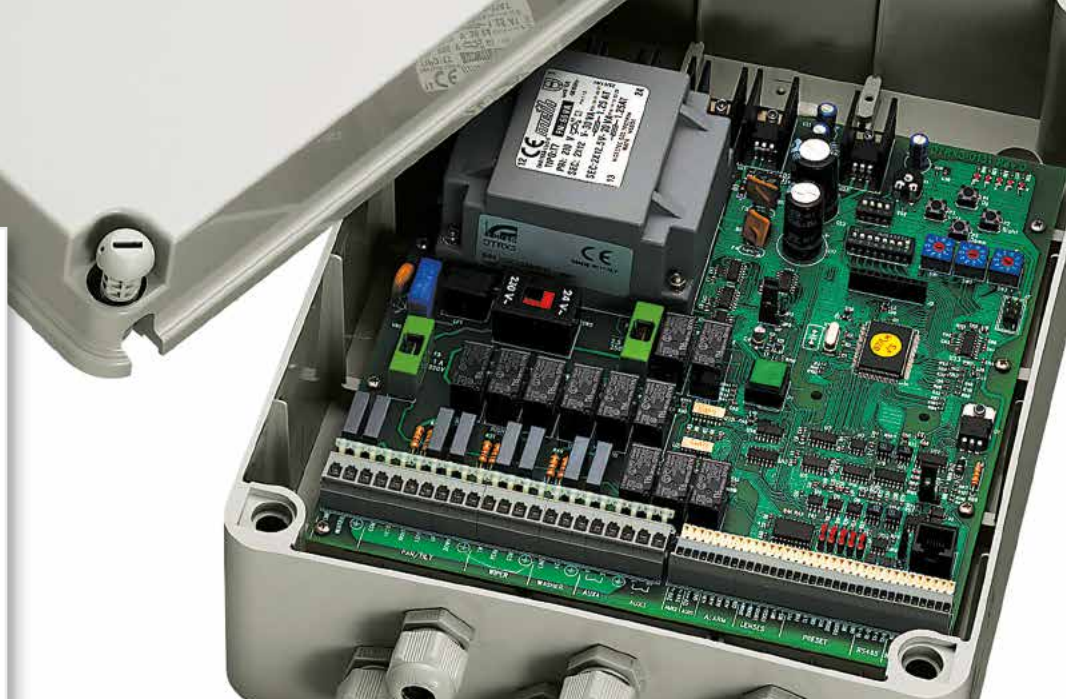
A wide range of telemetry receivers have been designed for outdoor Pan & Tilt remote control, which includes the most basic to the most complete models, and enable Pan & Tilt function management and motorised lenses.

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)
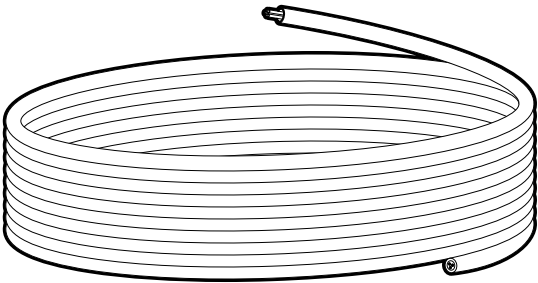
MULTI-POLAR CABLES

The armoured and unarmoured multi-polar 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
CMS	**Unarmoured multi-polar 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 Unarmoured black cable (CMSN2200): 2 Ethernet cables, 3 power supply conductors, 2 coaxial video cables, 15 alarm conductors, relay and telemetry Unarmoured blue cable (CMSB2200): 2 Ethernet cables, 3 power supply conductors, 2 coaxial video cables, 15 alarm conductors, relay and telemetry
CMA	**Armoured multi-polar 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 Armoured blue cable (CMAB1200): 1 Ethernet cable, 3 power supply conductors, 1 coaxial video cable, 7 alarm conductors, relay and telemetry

COMPATIBILITY MULTI-POLAR CABLES/PRODUCTS												
MODEL NUMBER	MAXIMUS MPX	MAXIMUS MPXT	MAXIMUS MPXHD	MAXIMUS MHX	MAXIMUS MHXT	MAXIMUS MMX	MAXIMUS MVX	MAXIMUS MVXT	MAXIMUS MVXHD	NXPTZ	NXPTZT	NXPTZHD
CMSN2200	√	√	√	√	√	–	√	√	√	√	√	√
CMSB2200	√	√	√	√	√	–	√	√	√	√	√	√
CMAN1200	√ [1]	–	√	√ [1]	√	–	√	√	√	√ [1]	–	√ [1]
CMAB1200	√ [1]	–	√	√ [1]	√	–	√	√	√	√ [1]	–	√ [1]
CMAN0400	–	–	–	–	–	√	–	–	–	–	–	–

[1] Not all functions are available
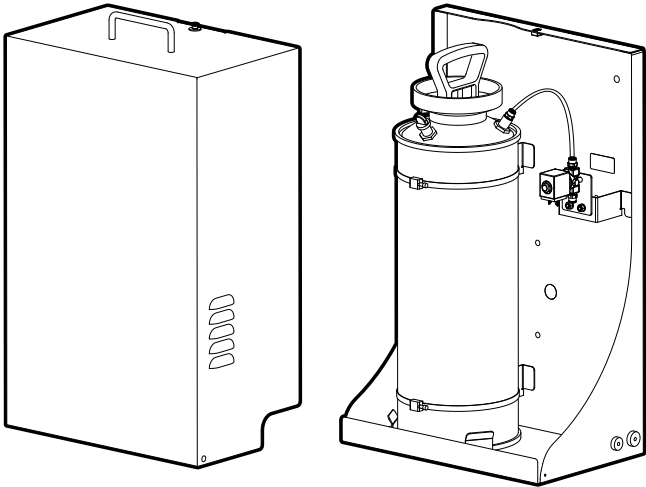
WAS WASHING SYSTEMS

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 °C.

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
Certifications:
EAC EX
1 Ex d IIC T4 Gb X, IP66 -40°C/+60°C
Ex tb IIIC T130°C Db X, IP66 -40°C/+60°C
Certifications Solenoid valve:
ATEX (EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009)
Ex II 2GD   Ex d IIC T6 or T5 or T4 Gb
                Ex tb IIIC T80°C or 95°C or T130°C Db IP66, Tamb -40°C to +35°C or +50°C or +60°C
INMETRO
Ex d IIC T4 Gb IP66
Ex tb IIIC T135°C Db IP66 Tamb -40/+60°C (-40°F / +140°F)
EAC EX
1 Ex d IIC T4 Gb X
Ex tb IIIC T130°C Db X, IP66 -40°C/+60°C
Marine Certification:
Lloyd's Register Marine Type Approval

WAS WASHING SYSTEMS - ACCESSORIES		WAS-WASPT	WASNX	WASEX
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	√	–	–
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	√	–	–
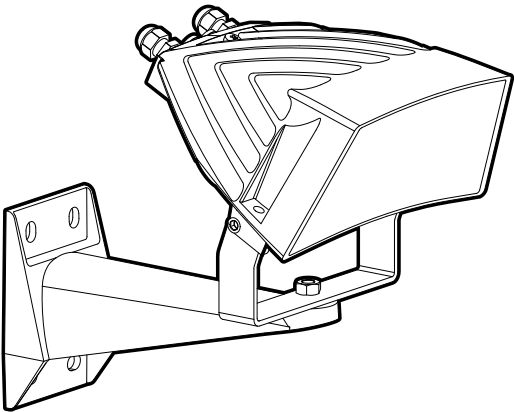
LED ILLUMINATORS

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

	LED illuminator
GEKO IRH	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
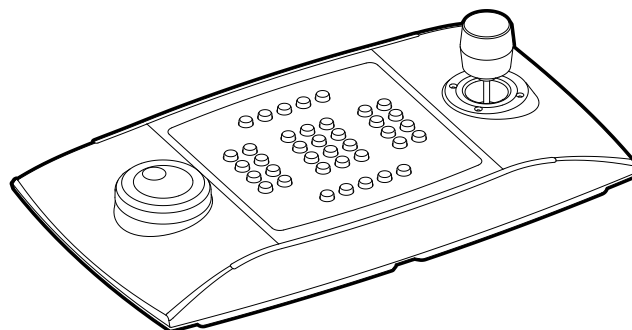
VIDEO MATRIX AND DISTRIBUTORS
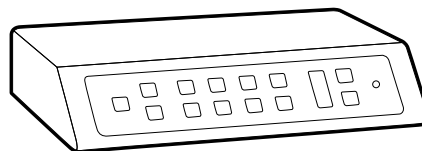
VIDEO TRANSMISSION
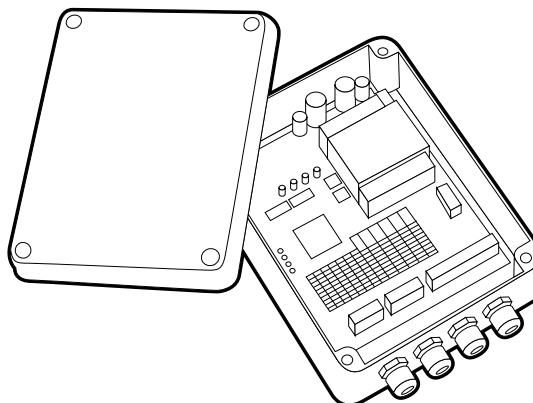
CONTROL KEYBOARDS

DCZ
DCJ
USB485

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.

The USB485 converter is suitable for connecting a DCJ Keyboard to a PC.

DCZ, DCJ, USB485

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

Customizable features

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

More than 40 protocols supported

USB485

USB to RS-485 converter

Suitable for connecting a DCJ Keyboard to a PC, it allows control of a PTZ unit directly from a PC

USB 1.1 - 2.0 Full Speed compliant

No external power supply

ESD, EFT, Lighting protection at USB and RS-485 Data line

Transmission speed up to 115.2 Kbps

Driver supports: Windows Server 2008 / Windows Server 2008 x64 / Windows Vista / Windows Vista x64 / Windows Server 2003 / Windows Server 2003 x64 / Windows XP / Windows XP x64 / Windows 2000 / Windows 7 / Windows 7 x64 / Windows 8 / Windows 8 x64 / Linux

VIDEO MATRIX AND DISTRIBUTORS

SM164B
SM82A
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, while the SM82A switches 8 video inputs on 2 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, SM82A, 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

SM82A

Small Video Matrix PAL/NTSC
8 inputs
2 independent video outputs
Telemetry over the coax on the 8 video inputs and on auxiliary serial output (RS-485)
8 alarm inputs, 1 output contact, VCR trigger and alarm reset
2 RS-485 serial inputs for max. 2 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

VIDEO TRANSMISSION

TWT2
TWRB2

Videotec video transmission devices comprise pair cable transmitters/receivers to send long-distance signals.

TWT2, TWRB2	
Outdoor active twisted pair video transmitter	
TWT2	Transmission of B/W or colour video signal Small IP56 weatherproof box Maximum distance to the receiver: up to 1500m (4900ft) for colour video signal, up to 2000m (6900ft) for B/W with UTP cat.5 cable Protected from ground loops and over voltage Available version 230Vac (mod. TWT2A)
TWRB2	**Outdoor active twisted-pair video receiver** Reception of B/W or colour video signal Small IP56 weatherproof box Maximum distance to the transmitter: up to 1500m (4900ft) for colour video signal, up to 2000m (6900ft) for B/W with UTP cat.5 cable Protected from ground loops and over voltage