

Esprit Anti-corrosion PTZ



Compliant with NDA 2019
Section 889

The Esprit Anti-Corrosion PTZ is a corrosion-resistant Day/Night Pan-Tilt-Zoom (PTZ) camera with 40x zoom and full 1080p resolution to accurately identify details in dark environments. Designed with AISI 316L stainless steel and micro-shot peened, electro-polished surfaces, it offers maximum resistance in corrosive environments, ideal for effective video monitoring in offshore/onshore marine environments and for ports and roadways. In addition, the Esprit Anti-Corrosion PTZ offers IP66/IP67/IP68/IP69 certifications and a NEMA Type 4X rating, ensuring protection against extreme conditions, including water and dust.

2 MP



Features

RUGGED CONSTRUCTION

AISI 316L stainless steel with micro-shot peened, electro-polished surfaces offer maximum corrosion resistance.

WIDE DYNAMIC RANGE & LOW LIGHT COMPENSATION

Offers excellent image detail in contrasting light and shadows.

LLOYD'S REGISTER MARINE TYPE APPROVAL

Obtained Lloyd's Register Marine Type Approval for the maritime and shipping sector.

ONVIF® COMPLIANT

ONVIF Profile G, M, S and T compliance allows for easy integration with existing ONVIF infrastructures. Integrates with Pelco VideoXpert and other leading video management systems.

*ONVIF is a trademark of Onvif, Inc.

WEATHER RESISTANT

Rated NEMA Type 4X and IP66/67/68/69 for water, corrosion and dust resistance.

HIGH-TEMPERATURE RANGE

Optimized to operate reliably even at increased temperature variances: from -40°C (-40°F) up to +65°C (+149°F).

PEACE OF MIND

We back this camera with a 3-year industry-leading warranty.

PELCO®

Specifications

Image Performance 2.0 MP

Image Sensor	1/2.8" progressive scan CMOS
Active Pixels (H x V)	1937 (H) x 1097 (V)
Imaging Area (H x V)	5.568 mm (H) x 3.132 mm (V); 0.219 " (H) x 0.123 " (V)
Minimum Illumination	0.03 lux (F/1.6) in color mode; 0.02 lux (F/1.6) in monochrome
Dynamic Range	120 dB
Image Rate	Up to 60 fps
Aspect Ratio (Resolution Scaling)	Down to (16:9) 384x216 or (5:4) 320x256
3D Noise Reduction Filter	Yes

Lens 2.0 MP

Lens	4.25 to 170 mm, F/1.6 – F/4.95, autofocus	
Angle of View	Horizontal	66.35° - 1.9°
	Vertical	39.99° - 1.11°
Zoom	Up to 40x	

Image Control 2.0 MP

Video Compression	H.264 and H.265 Pelco Smart Compression, Motion JPEG
Streaming	Multi-stream H.264, Multi-stream H.265, Motion JPEG
Motion Detection	Pixel motion: Selectable sensitivity and threshold. Classified object detection
Electronic Shutter Control	Automatic, Manual (1/1 to 1/10,000 sec)
Iris Control	Automatic, Open, Closed
Day/Night Control	Automatic, Manual
Flicker Control	60 Hz, 50 Hz
White Balance	Automatic, Manual
Backlight Compensation	On/Off
Privacy Zones	3D, up to 64 zones
Presets	500 named presets
Digital Zoom	12X
Tours	10 named tours
Electronic Image Stabilization	Yes
Digital Defog	Adjustable/Off

Network

RJ-45 port	10BASE-T/100BASE-T
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Network

SFP slot ¹	100BASE-FX
	3.3V
	MSA compliant
	Laser: Class 1, complies with EN60825-1. Certification: UL/IEC 60950-1 or UL/IEC 62368-1
ONVIF	ONVIF compliance Profile G, Profile M, Profile S and Profile T (www.onvif.org)
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication. Signed and encrypted firmware.
Protocols	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv2, ICMP, DHCP, Zeroconf, HSTS, NTCIP
Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP, SRTMP
Device Management Protocols	SNMP v2c, SNMP v3

¹SFP module not supplied.

Peripherals

Audio Input/Output	None
External I/O Terminals	1 Alarm In, 1 Alarm Out, 1 Washer pump Out, 1 Remote reset In
Onboard Storage	MicroSD/microSDHC/microSDXC slot – video speed class card required. Class V10 or better recommended.

Mechanical

Dimensions (LxWxH)	330 mm x 220.5 mm x 480 mm; 13" x 8.7" x 18.9"
Camera Weight	22.8 kg; 50.3 lbs
Glass Window	5 mm thick (0.2")
Body	AISI 316L stainless steel
Mounting options	Pendant and pedestal mount
Finish	External surfaces micro-shot peened and electro-polished
Tilt	-90° to +90°, up to 100°/second
Pan	360°, endless, up to 100°/second
Accuracy of preset positions	0.02°
Dynamic positioning control system	Yes

Electrical

Power Consumption	120 W max. 30 W, P&T static, heating switched off
Power Source	220-230 VAC ±10%, 0.5 A max, 50/60 Hz 120 VAC ±10%, 1 A max, 50/60 Hz

Electrical

	24 VAC ±10%, 5 A max, 50/60 Hz
Multipolar Cable	3 m; 118"
RTC Battery Backup	None

Cables

Cable	Unarmoured, multipolar, assembled, black	
Length	3m, 118"	
External Diameter	18.6mm (0.73in) ± 0.35mm (0.01in)	
Minimum Bending Radius	186mm (7.3in)	
Type of Laying	Fixed Installation	
Power cable	Number of Conductors	3
	Section	1.5mm ² (15AWG)
Shielded I/O Cable	Number of Conductors	8
	Section	0.34mm ² (22AWG)
Ethernet Cable	External Diameter	6.2mm (0.24in)
	Section	4x2x0.20mm ² (24AWG)
	Category	5e
	Shielding	SF/UTP
Operating Temperature	from -40°C (-40°F) up to +85°C (+185°F)	
Compliance	Oil resistant	CNOMO E.03.40.150N, ASTM n.2, IRM 902, IEC60811-2-1
	UV Resistant	UL1581
	Resistance to flame spread	IEC/EN60332-1, IEC/EN 60079-14 (ATEX Ex II)

Environmental

Operating Temperature	Continuous operation from -40 °C to +65 °C (-40 °F to 149 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to 158 °F)
Humidity	5% - 95% non-condensing
Housing Climate Control	Built-in heater and fan
Cold Start	Up to 135 minute startup delay at temperature lower than -10 °C (14 °F)

Certifications

Certifications/Directives	UL (24 VAC only), cUL (24 VAC only), CE, UKCA, ROHS, LR, RCM KC (ESSE1-2X40-SPT-M2, ESSE1-2X40-SPT-AC)
Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1, IS13252(PART1):2010/IEC60950-1:2005
Environmental and Performance	UL/CSA/IEC 60950-22, IEC 62262 IK10 Impact Rating (enclosure only), IEC 60529 IP66, IP67, IP68, IP69 Weather Rating, IEC 60068-2-1, IEC 60068-2-6, IEC 60068-2-30, IEC 60068-2-14,

Certifications

	NEMA TS 2 para 2.2.7 - 2.2.9, Type 4X, MIL-STD-810-H
Electromagnetic Emissions	FCC Part 15 Subpart B Class A, IC ICES-003 Class A, EN 55032 Class A, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3
Electromagnetic Immunity	EN 55035, EN 50130-4
Lloyd's Register Marine Type Approval certification	Test Specification Number 1 (ENV1, ENV2, ENV3, ENV5) Electromagnetic compatibility: EN60945 (24 VAC requires the accessory filter FM1010 or COMBxxx) Environmental: IEC 60068-2-78 Tested at 70°C (158°F) for 16 hours in compliance with EN60068-2-2
Warranty	3-year limited warranty. 5-year extended warranty is available.

Analytics Specifications

Supported Analytics Events*

Objects in Area	The event is triggered when the selected object type moves into the region of interest.
Object Loitering	The event is triggered when the selected object type moves into the region of interest, then stays for an extended amount of time.
Objects Crossing Beam	The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional.
Object Appears or Enters Area	The event is triggered by each object that enters the region of interest and can also be used to count objects.
Object Not Present in Area	The event is triggered when no objects are present in the region of interest.
Objects Enter Area	The event is triggered when the specified number of objects have entered the region of interest.
Objects Leave Area	The event is triggered when the specified number of objects have left the region of interest.
Object Stops in Area	The event is triggered when an object moves into a region of interest and then stops moving for the specified threshold time.
Direction Violated	The event is triggered when an object moves in the prohibited direction of travel.
Sabotage Detection	The event is triggered when the scene unexpectedly changes.

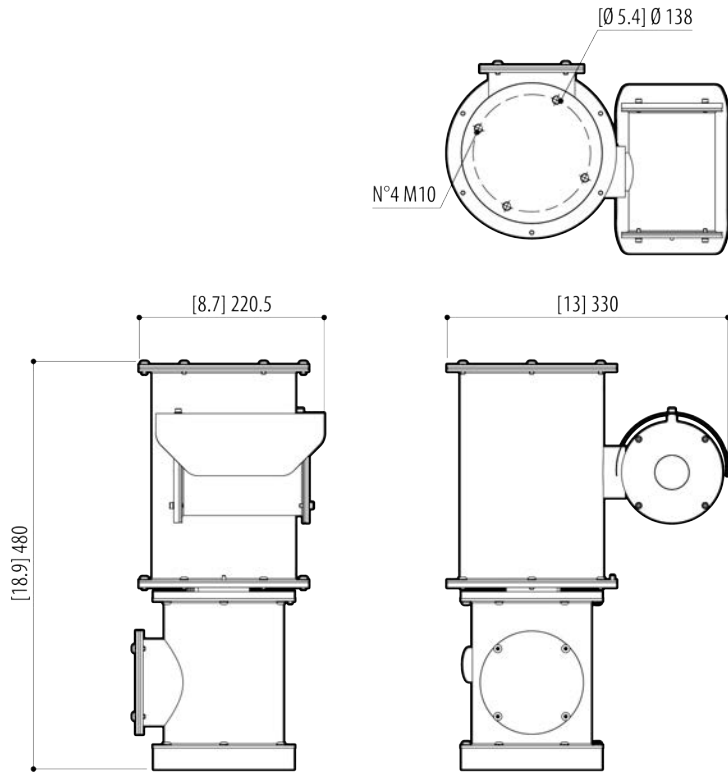
*Pelco Smart Analytics powered by Motorola Solutions.

Outline Dimensions

Esprit Anti-Corrosion PTZ Camera

(ESSE1-2X40-SPT-M2, ESSE1-2X40-SPT-AC, and ESSE1-2X40-SPT-M1)

[X.XX]	INCHES
X.X	MM



Ordering Information

PTZ CAMERAS

Part number	Supply voltage
ESSE1-2X40-SPT-M2	220-230 VAC
ESSE1-2X40-SPT-AC	24VAC
ESSE1-2X40-SPT-M1	120VAC

PTZ CAMERA ACCESSORIES

Accessory	Description
MPXWBA	AISI 316L stainless steel wall bracket.
MPXWBTA	AISI 316L stainless steel parapet or ceiling mounting bracket.
MPXCOL	Pole mount adapter. For pole diameters from 110 mm (4.3") to 150 mm (5.9"). Max load 50 kg (110 lb.). AISI 316L stainless steel.

Accessory	Description
MPXCW	Corner mount adapter. Max load 50 kg (110 lb.). AISI 316L stainless steel.
WASPT0V5L5M00	Washer 5l, 5m, 230 VAC-24 VAC-120 VAC.
WASPT0V23L11M00	Washer 23l, 11m, 230 VAC-24 VAC-120 VAC.
WASPT1V23L30M00	Washer 23l, 30m, water float, 230 VAC.
WASPT3V23L30M00	Washer 23l, 30m, water float, 120 VAC.
COMB100A	Comm. box, w PS & Switch, 220-230 VAC.
COMB200A	Comm. box, w PS & Switch, 24 VAC.
COMB300A	Comm. box, w PS & Switch, 120-127 VAC.
WASN1V10L20M00	Tank 10l (2.6gal) with integrated manual pump, controlled by solenoid valve, IN 230 VAC, delivery head up to 30m (98ft), with 20m (66ft) antistatic water delivery pipe.
WASN2V10L20M00	Tank 10l (2.6gal) with integrated manual pump, controlled by solenoid valve, IN 24 VAC, delivery head up to 30m (98ft), with 20m (66ft) antistatic water delivery pipe.
WASN3V10L20M00	Tank 10l (2.6gal) with integrated manual pump, controlled by solenoid valve, IN 120 VAC, delivery head up to 30m (98ft), with 20m (66ft) antistatic water delivery pipe.
FM1010	EMC filter for Marine certification.
NXPTZSFP	Adaptor for connection of fiber optics.

Support

Learn more and find additional documentation at pelco.com or email support@pelco.com for specific product support.

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