Esprit Anti-Corrosion Bispectral PTZ

Reveal hidden threats with a dual camera for corrosive applications

2 MP | QVGA | VGA

Securing rugged environments means accounting for intense snowfall, to harsh corrosion and challenging lighting conditions. The Esprit Anti-Corrosion Bispectral PTZ is a corrosion-resistant camera that combines visual and thermal imaging into a single device to enhance operational awareness. The thermal camera can accurately detect a target in most environmental conditions, while the visual camera achieves greater recognition and identification. Designed with heavy-duty stainless steel, the Esprit Anti-Corrosion Bispectral PTZ is made for rugged environments and offers maximum resistance against corrosion, making it an ideal choice for cargo ships, ports, roadways and other highly corrosive industries.

Features

Visual Camera
Get clear images in most weather and lighting conditions with 2 MP resolution, LowLight Technology and True Wide Dynamic Range. Get a complete picture with the smooth movement of the PTZ and see afar with long-range zoom.

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

Ready For Harsh Conditions
Safe within a wide temperature range, from -40°C to +65°C (-40°F to 149°F), plus IP66/67/68/69 weather rating for maximum durability in tough environments.

Pelco Smart Analytics
Powered by Motorola Solutions. Make quicker, decisive responses with enhanced object detection and classification and leverage your PTZ's full potential with auto-tracking.

Thermal Camera
Detect heat signatures from a long distance with various resolutions, including QVGA and VGA, and choose from a variety of field-of-view options to cover wide areas.

Superior Detection
Never miss a single detail with a camera that provides a thermal and a visual vision for better decision-making and reduced false alarm rates.

Easy Installation
Simplify installation and ensure cost-efficiency by installing only one camera instead of two. Take advantage of flexible mounting options to suit your facility's needs, particularly in remote and challenging sites.

ONVIF® Conformant
ONVIF Profile S, G, T and M conformance for easy integration with leading video management software to maximize existing investments.

Specifications

Thermal - Image Performance	QVGA	VGA
Image Sensor	320 x 256 Uncooled VOx Microbolometer	640 x 512 Uncooled VOx Microbolometer
Dynamic Range	-40°C to 225°C (-40°F to 437°F)[may very based on operating temperature]	
Image Rate	Up to 30 fps (-1 models up to 8.6 fps)	
Aspect Ratio	5:4	
3D Noise Reduction Filter	Yes	
Pixel Pitch	12µm	
Spectral Range	8µm to 14µm	
Resolution Scaling	320 x 256, can be scaled up to 640 x 512	640 x 512, can be scaled down to 320 x 256
Sensitivity	NETD ≤50 mK (NETD ≤40 mK when the Frame Averager feature is enabled)	
Thermal Palettes	White Hot, Black Hot, Rainbow, RainHC, IronBow, Lava, Artic, GlowBow, GradedFire, Hottest	
Image Uniformity Optimization	Automatic Flat Field Correction (FFC) - Thermal and Temporal	

Thermal - Lens	QVGA		VGA	
Lens	6.3 mm	18 mm	8.7 mm	36 mm
Horizontal field of view	34°	12°	50°	12.2°
Vertical field of view	27.2°	9.6°	37.5°	9.8°
F-number	F/1.01	F/1.04	F/1.01	F/1.00

Visible - Image Performance		2.0 MP
Image Sensor		1/2.8" progressive scan CMOS
Active Pixels (H x V)		1937 (H) × 1097 (V)
Imaging Area (H x V)		5.568 mm (H) × 3.132 mm (V); 0.219 ” (H) × 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) 384×216 or (5:4) 320×256
Signal Noise (S/N) Ratio		More than 50 dB
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
3D Noise Reduction Filter		Yes

Visible - Image Control	2.0 MP
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

Visible - Image Control	2.0 MP
Privacy Zones	3D, up to 64 zones
Electronic Image Stabilization	Yes
Digital Defog	Adjustable/Off

Common - Image Control	
Video Compression	H.264 and H.265 Pelco Smart Compression, Motion JPEG
Streaming	Multi-stream H.264, Multi-stream H.265, Motion JPEG
Presets	500 named presets
Tours	10 named tours

Visible - 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.

Visible - Auto-track Objects in Area	
Auto-track Objects in Area	The event is triggered when the selected object type moves into the region of interest defined at the home position. The camera will automatically reposition to track the object, returning to the preset home position once object is lost.

Network		
RJ-45 port	Network	10BASE-T/100BASE-T
	Cabling Type	CAT5e/CAT6 shielded (STP) Ethernet cable is required to fully comply with EMC regulatory standards
	Connector	RJ-45
SFP slot[1]	Network	100BASE-FX
	Supply voltage	3.3V
	Standard	MSA compliant
	Safety requirements	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
Protocols		IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv2, ICMP, DHCP, Zeroconf, ARP, HSTS
Streaming Protocols		RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP
Device Management Protocols		SNMP v2c, SNMP v3

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	
Accuracy of preset positions	0.02°
Dynamic positioning control system	Yes
Dimensions (Ø×H)	460 mm x 240 mm x 480 mm; 18.1" x 9.5" x 18.9"
Weight	25.7 kg; 56.7 lb
Glass Window	5 mm thick (0.2")
Body	AISI 316L stainless steel
Housing	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

Electrical	
Power Consumption	120W max. 35W, P&T static, heating switched off
Power Source	220-230VAC±10%,0.5Amax,50/60Hz 120VAC±10%,1Amax,50/60Hz 24VAC±10%,5Amax,50/60Hz
Multipolar Cable	3m; 118"
RTC Battery Backup	None

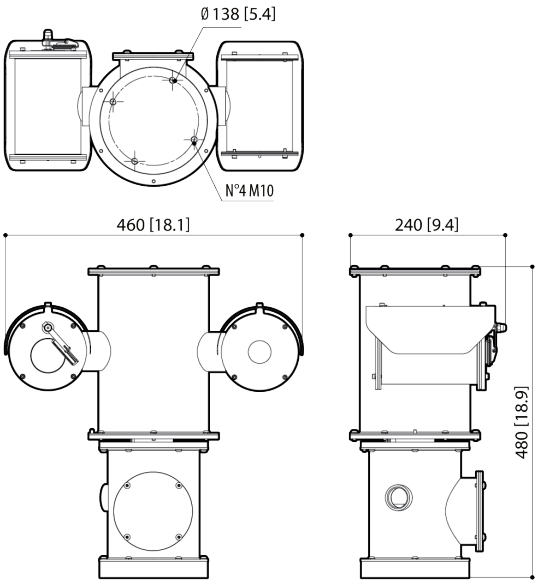
Environmental	
Operating Temperature	Continuous operation from -40°C to +65°C (-40°F to 149°F)
Storage Temperature	-40 °C to +70 °C (-40 °F to 158 °F)
Humidity	5% - 95% non-condensing
Housing Climate Control	Built-in heater and fans
Cold Start	Up to 135 minute startup delay at temperature lower than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

Certifications	
Certifications/Directives	UL(24VAConly), cUL(24VAConly), CE, UKCA, ROHS, LR, RCM
Safety	UL 62368-1, CSA 62368-1, IEC/EN 62368-1
Environmental and Performance	UL/CSA/IEC 62368-1, 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, Type4X (24VAConly)
Electromagnetic Emissions	FCC Part 15 Subpart B Class A, ICICES-003 Class A, EN 55032 Class A, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1
Electromagnetic Immunity	EN 55035, EN 50130-4
Warranty	3-year limited warranty. 5-year extended warranty is available.
Lloyd's Register Marine Type Approval certification	Test Specification Number 1 (ENV1, ENV2, ENV3, ENV5) Electromagnetic compatibility: EN 60945 (24VAC 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

Outline Dimensions

Esprit Compact Bi-spectral Camera

[X.X]	INCHES
X	MM



Ordering Information

PTZ CAMERAS

RESOLUTIONS & LENS	Power	fps	PART NUMBER
Sensor VGA 640x512; Lens 50°-8.7mm.	220 - 230 Vac	9Hz	EABE1-2X40VF09-SPT0-M2-1
		30Hz	EABE1-2X40VF09-SPT0-M2
	120 Vac	9Hz	EABE1-2X40VF09-SPT0-M1-1
		30Hz	EABE1-2X40VF09-SPT0-M1
	24 Vac	9Hz	EABE1-2X40VF09-SPT0-AC-1
		30Hz	EABE1-2X40VF09-SPT0-AC
Sensor VGA 640x512; Lens 12°-36mm.	220 - 230 Vac	9Hz	EABE1-2X40VF36-SPT0-M2-1
		30Hz	EABE1-2X40VF36-SPT0-M2
	120 Vac	9Hz	EABE1-2X40VF36-SPT0-M1-1
		30Hz	EABE1-2X40VF36-SPT0-M1
	24 Vac	9Hz	EABE1-2X40VF36-SPT0-AC-1
		30Hz	EABE1-2X40VF36-SPT0-AC
Sensor QVGA 320x256; Lens 34°-6.3mm.	220 - 230 Vac	9Hz	EABE1-2X40QF06-SPT0-M2-1
		30Hz	EABE1-2X40QF06-SPT0-M2
	120 Vac	9Hz	EABE1-2X40QF06-SPT0-M1-1
		30Hz	EABE1-2X40QF06-SPT0-M1
	24 Vac	9Hz	EABE1-2X40QF06-SPT0-AC-1
		30Hz	EABE1-2X40QF06-SPT0-AC

RESOLUTIONS & LENS	Power	fps	PART NUMBER
Sensor QVGA 320x256; Lens 12°-18mm.	220 - 230 Vac	9Hz	EABE1-2X40QF18-SPT0-M2-1
		30Hz	EABE1-2X40QF18-SPT0-M2
	120 Vac	9Hz	EABE1-2X40QF18-SPT0-M1-1
		30Hz	EABE1-2X40QF18-SPT0-M1
	24 Vac	9Hz	EABE1-2X40QF18-SPT0-AC-1
		30Hz	EABE1-2X40QF18-SPT0-AC

PTZ CAMERA ACCESSORIES

Accessory	Description
MPXWBA	Wall bracket
MPXWBTA	Parapet or ceiling mounting bracket
MPXCOL	Pole mount adaptor
MPCXW	Corner mount adaptor
WASPT0V5L5M00	Tank 5l IN 230 24 120Vac wash pump 5m
WASPT0V23L11M00	Tank 23l IN 230 24 120Vac wash 11m float
WASPT1V23L30M00	Tank 23l IN 230Vac wash pump 30m float
WASPT3V23L30M00	Tank 23l IN 120Vac wash pump 30m float
COMB100A	Comm box polycarbonate 220-230Vac
COMB200A	Comm box polycarbonate 24Vac
COMB300A	Comm box polycarbonate 120-127Vac
WASNX1V10L20M00	Tank 10l solenoid 230Vac man pump 30m
WASNX2V10L20M00	Tank 10l solenoid 24Vac man pump 30m
WASNX3V10L20M00	Tank 10l solenoid 120Vac man pump 30m
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.

MOTOROLA SOLUTIONS

PELCO

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