

DHOSS

Digital Helicopter Operations Surveillance System Dual Sensor Naval PTZ Camera

0550-6002

Benefits

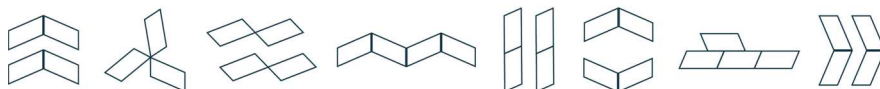
- 36x Zoom HD Visible Sensor
- Ultra Low Light Mono Mode
- Uncooled LWIR Thermal Sensor
- Quick Connect Mechanism for fast Camera LRU swap
- Qualified to US Navy MIL SPEC

Applications

- Flight Deck Surveillance
- Helicopter Operations
- Naval Surface Ships
- Waterline Security

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Dual Sensor Naval PTZ Camera



Performance	Visible Sensor	Thermal Sensor
Sensor Type	1/2.0" progressive scan CMOS	LWIR Uncooled ASI Microbolometer
Resolution	1920x1080 @ 60fps max	640x480 @ 30fps max / 17um pixel pitch
Sensitivity	Colour: 0.005 Lux / Mono: 0.00008 Lux (1/30sec 30IRE)	<40mK / Spectral Response 8-14um
Zoom	Optical 36x / Digital 8x	Digital 8x
Focal Length / Aperture	f = 6 to 216mm F1.5 to F4.8	f = 14.2mm ** F1.2
Focus	Auto / Manual	Fixed
FOV in air	Horizontal: 58.2° (wide) to 1.6° (tele) Vertical: 33.9° (wide) to 0.94° (tele)	Horizontal: 42.5° ** Vertical: 32.5°
DORI (Detection, Observation, Recognition, Identification)	D= 33px/m – 1995metres, O= 65px/m – 1013metres, R= 130px/m – 506metres, I= 260px/m – 253metres	Detect small boat @1.26km with 14.2mm lens (**Detect small boat up to 6.76km with alternate lens)
Video Compression	H.265, H.264, MJPEG	H.264, MJPEG
Video Streaming	Up to 4 simultaneous streams	Up to 3 simultaneous streams
Analytics	Object detection, Object tracking, Motion detection	-
Pan & Tilt Unit		
Pan Range / Speed	360° continuous rotation, speed: 0.2°/second to 100°/second	
Tilt Range / Speed	-90° down to +60° up (limited in software – continuous option), speed: 0.2°/second to 70°/second	
Preset Positions/Tours	200 presets visible camera / 20 presets thermal camera / repeatable accuracy better than 0.2° / 8 tours	
Electrical & Network		
Network Interface	ONVIF Profile S and T / 100/1000BASE-T and 100/1000BASE-LX / Milestone XProtect® compatible	
Security	Basic/Digest authentication, HTTPS, IP address filtering, User access log, TTA certification	
Protocols	IPv4, UDP, TCP, HTTP, HTTPS, RTP, RTCP	
Power	115Vac, max 300W, Type 1 power i.a.w. MIL-STD-1399 for Junction Box	
Mechanical		
Dimensions	PTZ Camera, pan motion clearance Ø610mm max, tilt motion max height 438mm, pan base Ø302mm; Cable 45.72m (150') length; Junction Box 444.5mm h x 378.7mm w x 160mm d	
Materials & Finish	PTZ Camera: Aluminium Alloy 6082-T6 anodised & painted to FED-STD-595, color no. 26270 / 316 Stainless Steel quick connect & shafts, Junction Box: Sheet Steel powder coated to Gray ANSI61	
Weight	Pan & Tilt: 31Kg, Visible Camera: 3.5Kg, Thermal Camera: 3.3Kg, Cable: 6Kg, Junction Box: 15Kg	
Installation Info	EMI conduit, conduit adaptors, connector adaptors, deck penetrators and stuffing tubes for Junction Box to be supplied by Installing Activity	
Connector	Pan & Tilt Unit: ST/ST D38999 Cameras: D38999 Junction Box: Stuffing Tubes	
Window Material	Visible Camera: Borofloat glass/ITO coating, Thermal Camera: Germanium c/w DLC/conductive coating	
Environmental & EMI		
Housing	IP66, weatherproof, includes sunshields and window heaters	
Temperature	Operating: -25°C to +65°C (Above Deck PTZ Camera) / 0°C to +50°C (Below Deck Junction Box) Storage: -40°C to +70°C, MIL-STD-810G Methods 501.5 & 502.5	
Humidity	RH 100% for PTZ Camera / RH 95% for Junction Box, MIL-STD-810G Method 507.6 Aggravated	
Rain	Operate when subject to 10cm/hr rain / 50 knots of wind, MIL-STD-810G Method 506.5	
Salt Fog	MIL-STD-810G Method 509.5	
Wind	Operate: in 95 kph, gusts of 140 kph / Survive without damage: in 185 kph, gusts of 325 kph	
Shock	MIL-DTL-901E, Grade B, Class I, Type A	
Vibration	MIL-STD-167-1, Type 1, Shipboard	
EMI	MIL-STD-461G, Above Decks Surface Ships Limits	

** Various other fixed athermal lens options available – please contact us

Specification subject to change without any further notice