

DrillVision™

Offshore & Marine Video Systems

A Southern Electronics Company

225.753.8884 www.drillvisionsystems.com



Marine HD is a Full HD PTZ camera which integrates new imaging and encoding technology for outdoor video surveillance, allowing recordings to be produced with incredibly bright and vivid colors both by day and by night.

In addition to improved light sensitivity with outstanding color reproduction and greater noise reduction, DELUX technology gives advanced new performance in terms of proportional zoom control and management of privacy masking for sensitive areas.

The full HD PTZ camera is entirely manufactured in stainless steel AISI 316L and does not require maintenance. Resistance to corrosion is guaranteed and improved by a double surface polishing process and guarantees high performance for use in highly corrosive environments such as industrial and offshore/onshore marine environments.

Marine HD integrates a Day/Night, Full HD camera, 1080p with a 30x optical zoom and a frame rate of 60fps. It is capable of accurately pinpoint details in any scene – even dynamic, rapidly changing situations.

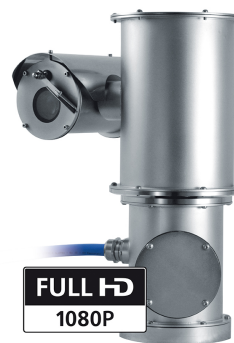
The video images are sent via the network with compression H.264/AVC, MPEG4, MJPEG or JPEG and up to a maximum of 3 simultaneous and independent Full HD video streams.

An equally noteworthy point is that the IP66/IP67/IP68 ratings guarantee the complete protection against harsh weather and immersion in up to 1 meter of water for 2 hours. Moreover the IP69 rating allows the device to be cleaned with high pressure and high temperature water jets.

The Marine HD 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 (eg. passenger ships, open-air decks, closed spaces and technical areas that may be subject to heat generated by other equipment, docking procedures).

Marine HD

STAINLESS STEEL DAY/NIGHT PTZ CAMERA WITH EXCEPTIONAL NIGHT BRIGHTNESS OFFSHORE, MARINE AND INDUSTRIAL AREAS. Extremely low maintenance!



CERTIFICATIONS



MAIN FEATURES

Marine Certification: Lloyd's Register Marine Type Approval

In stainless steel AISI 316L, micro-shot peened in silicon and electro-polished
Camera Full HD 1080p, 30x, 60fps

Minimum Illumination:

- Colour: 0.006lx
- B/W: 0.0006lx

Video compression H.264/AVC, MJPEG, JPEG and MPEG4

Certified ONVIF, Profile S, Profile Q

Day/Night (Auto ICR: automatic removal of IR filter)

De-fog function

Up to 3 simultaneous video streams in FULL HD

1 alarm input and 1 relay output

Variable speed: from 0.1°/s up to 100°/s Pan and Tilt

Position accuracy: 0.02°

Pre-wired multipolar cable

Integrated wiper

Operating temperature: from -40°C (-40°F) up to +60°C (140°F)

Protection degree: IP66, IP67, IP68, IP69

Technical Data

TECHNICAL DATA

MECHANICAL

AISI 316L stainless steel construction
External surfaces micro-shot peened in silicon and electro-polished
Dynamic positioning control system
Zero backlash
Pre-wired multipolar cable (3m or, on request, 10m)
Horizontal rotation: 360°, continuous rotation
Vertical rotation: from -90° up to +90°
Horizontal speed (variable): from 0.1°/s up to 100°/s
Tilt speed (variable): from 0.1°/s up to 100°/s
Accuracy of preset positions: 0.02°
Integrated wiper
Unit weight: 22kg (44lb)

ELECTRICAL

Supply voltage/Current consumption:

- 230Vac, 0.5A max, 50/60Hz
- 120Vac, 1A max, 50/60Hz
- 24Vac, 5A max, 50/60Hz

Power consumption:

- 120W max

NETWORK

Ethernet connection: 100 Base-TX
Connector: RJ45

VIDEO

Video encoder

- Communication protocol: ONVIF, Profile S and Profile Q
- Device configuration: TCP/IPv4-IPv6, UDP/IPv4-IPv6, HTTP, HTTPS, NTP, DHCP, WS-DISCOVERY, DSCP, IGMP (Multicast), SOAP, DNS
- Streaming: RTSP, RTP, RTP/IPv4, HTTP, Multicast
- Video compression: H.264/AVC, MJPEG, JPEG, MPEG4
- 3 independent video streams Full HD
- Image resolution: from 320x180pixel up to 1920x1080pixel in 6 steps
- Selectable frame rate from 1 to 60 images per second (fps)
- Web Server
- Directional OSD
- Motion Detection

I/O INTERFACE

I/O alarm board:

- Alarm inputs: 1
- Relay outputs: 1 (1A, 30Vac/60Vdc max)

CAMERAS

Day/Night Full HD 30x

Resolution: Full HD 1080p (1920x1080pixel)
Image Device: 1/2.8" Exmor™ R CMOS sensor
Effective Pixels: approx. 2.38 Megapixels
Minimum Illumination:

- Colour: 0.006lx (F1.6, 30 IRE)
- B/W: 0.0006lx (F1.6, 30 IRE)

Focal length: from 4.5mm (wide) up to 135mm (tele)
Zoom: 30x (480x with digital zoom)
Iris: from F1.6 up to F9.6, 10 steps (Auto, Manual)
Horizontal Viewing Angle: from 61.6° (wide end) up to 2.50° (tele end)
Vertical Viewing Angle: from 37.07° (wide end) up to 1.44° (tele end)
Shutter speed: from 1/1s up to 1/10000s (Auto, Manual)
White balance: Auto, Manual
Gain: from 0dB up to 36dB (Auto, Manual)
Wide Dynamic Range: 120dB
Focus System: Auto, Manual, Trigger
Picture Effects: E-flip, Color enhancement
Noise removal: 2D, 3D
Exposure Control: Auto, Manual, Priority (Iris Priority, Shutter Priority), Brightness, Custom
De-fog: Yes (On/Off)

ENVIRONMENT

For installation indoors and outdoors
Operating temperature: from -40°C (-40°F) up to +60°C (140°F)
Relative humidity: from 10% up to 95% (no condensation)

CERTIFICATIONS

Electrical safety (CE): EN60950-1, IEC60950-1
Electromagnetic compatibility (CE): EN61000-6-4, EN61000-3-2, EN61000-3-3, EN50130-4, EN55032 (Class A)
Outdoor installation (CE): EN60950-22, ICE60950-22
IP protection degree (EN60529): IP66, IP67, IP68, IP69
EAC certification
UL certification (UL60950-1, CAN/CSA C22.2 No. 60950-1-07): cULus Listed (only for 24Vac version)
Electromagnetic compatibility (North America): FCC part 15 (Class A), ICES-003 (Class A)
Level of protection Type (UL50E): 4X (only for 24Vac version)

CERTIFICATIONS - MARINE APPLICATIONS

Lloyd's Register Marine Type Approval certification (the 24Vac versions require a filter accessory FM1010):

- Test Specification Number 1 (ENV1, ENV2, ENV3, ENV5)

Electromagnetic compatibility: EN60945
Salty fog resistance: EN60068-2-52
Tested at 70°C (158°F) for 16 hours in compliance with EN60068-2-2

DrillVision™

Offshore & Marine Video Systems

A Southern Electronics Company

225.753.8884 www.drillvisionsystems.com

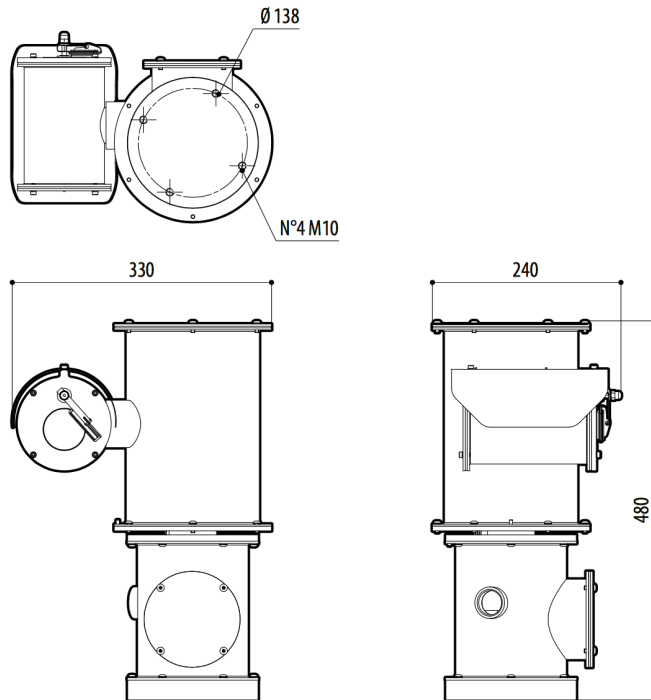


Drawings & Accessories



TECHNICAL DRAWINGS

The indicated measurements are expressed in millimetres.



ACCESSORIES

WASPTOV5L5M00	Water tank 5l (1.3gal), pump with delivery up to 5m (16ft), IN 230Vac-24Vac-120Vac
WASPTOV23L5M00	Water tank 23l (6 gal), pump with delivery up to 5m (16ft), IN 230Vac-24Vac-120Vac
WASPTOV23L11M00	Water tank 23l (6 gal), pump with delivery up to 11m (36ft) with water floating, IN 230Vac-24Vac-120Vac
WASPT1V23L30M00	Water tank 23l (6 gal), pump with delivery up to 30m (98ft) with water floating, IN 230Vac
WASPT3V23L30M00	Water tank 23l (6 gal), pump with delivery up to 30m (98ft) with water floating, IN 120Vac
WASN1V10L20M00	Tank 10l (2.6gal) with integrated manual pump controlled by solenoid valve, delivery head up to 20m (66ft) max, IN 230Vac
WASN2V10L20M00	Tank 10l (2.6gal) with integrated manual pump controlled by solenoid valve, delivery head up to 20m (66ft) max, IN 24Vac
WASN3V10L20M00	Tank 10l (2.6gal) with integrated manual pump controlled by solenoid valve, delivery head up to 20m (66ft) max, IN 120Vac
FM1010	EMC filter for Marine certification

BRACKETS AND ADAPTORS

NXPTZWB	AISI 316L stainless steel wall bracket
NXPTZTW	AISI 316L stainless steel parapet or ceiling mounting bracket
NXPTZCOL	AISI 316L stainless steel pole adapter module
NXPTZCW	AISI 316L stainless steel corner adapter module

DrillVision™

Offshore & Marine Video Systems

A Southern Electronics Company

225.753.8884 www.drillvisionsystems.com

