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).
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, WSDISCOVERY, DSCP, IGMP (Multicast), SOAP, DNS
• Streaming: RTSP, RTCP, 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 37.0° (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, EN50503 Class A
Outdoor installation (CE): EN60950-22, IEC60950-22
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 (UL508): 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
Salt fog resistance: EN60068-2-52
Tested at 70°C (158°F) for 16 hours in compliance with EN60068-2-2

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