

DATASHEET

DCX5000

PTZ dome camera for marine / aggressive environments

- Made of AISI 316L stainless steel for marine / aggressive environments.
- IP67 weatherproof rating.
- Excellent low-light performance.
- 30x optical zoom that clearly identifies people up to 183m.
- 120 dB dynamic range for the reliable acquisition of details in situations of overexposure.
- Smart Streaming, IDNR and H.265 reduce bitrate up to 80%.
- Easy fastening and positioning



IP 67
STANDARD

FULL
HD
1080p

P
E



maintenance free

PTZ camera for discrete surveillance

With the **DCX5000** PTZ you can capture full details of your surveillance space and identify activity details in the scene. The integrated 30x optical zoom lens allows covering large field of views from a single camera.

The rugged AISI 316L stainless steel construction permits the installation in aggressive environments (steelworks, chemical industries, etc.) or in areas of high salinity, for example ports, oil rig, etc.

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FUNCTIONS

- **Low-light performance**

The latest sensor technology combined with the sophisticated noise suppression results in an exceptional sensitivity in color. The low-light performance is so good that the camera continues to provide excellent color performance even with a minimum of ambient light.

- **Pre-programmed user modes**

The camera comes with 3 pre-tuned scene modes to match various lighting conditions. Users can complete the configuration without going through multiple imaging settings.

- *Standard:* For indoor fluorescent lighting.
- *Sodium-lighting:* For scenarios where the video is captured under sunlight in the day or under sodium vapor lamp at night.
- *Vibrant:* For enhanced contrast, sharpness, and saturation

- **H.265 high-efficiency video encoding**

The camera is designed on the most efficient and powerful H.264 and H.265/HEVC encoding platform. The camera is capable to deliver high-quality and high resolution video with very low network load. With a doubling of encoding efficiency, H.265 is the new compression standard of choice for IP video surveillance systems.

- **Intelligent streaming**

Smart encoding capabilities, together with IDNR (*Intelligent Dynamic Noise Reduction*) technology and analytics, make the bandwidth consumption drop to extremely low levels. Only relevant information in the scene, like motion, or objects found with the analytics, need to be encoded. The camera is capable of quad streaming which allows the camera to deliver independent, configurable streams for live viewing, recording, or remote monitoring via constrained bandwidths.

- **Superior privacy masking**

The camera allows for a total of 24 individual privacy masks, with up to eight displayed in the same scene. These can be programmed with five corners each. Each mask changes size and shape smoothly and quickly, ensuring that the covered object cannot be seen.

- **System integration and ONVIF conformance**

The camera conforms to the Open Network Video Interface Forum (ONVIF) Profile S and Profile G specifications. For H.265 configuration the camera also supports Media Service 2 which is part of the future ONVIF Profile T. Compliance with these standards guarantees interoperability between network video products regardless of manufacturer.

- **Snap Zoom**

Tracing a box in the image will activates the zoom of the camera in the correct position.

- **PTZ drive and mechanism**

The camera supports 256 pre-positions and two styles of Guard Tours: Pre-position and Record/Playback. The Pre-position tour has capability for up to 256 prepositions with a configurable dwell time between prepositions and can be customized as to the order and the frequency that each Pre-position is visited. The camera also provides support for two (2) recorded tours, which have a total duration of 15 minutes of movements. These are recorded macros of an operator's movements, including pan, tilt, and zoom activities, and can be played back in a continuous manner.

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Pan and tilt preset repeatability are accurate to within ± 0.1 degrees to ensure that the correct scene is captured every time. The camera delivers maximum pan speed of 300 degrees per second and maximum tilt speed of 200° degrees per second. The camera is capable of manual speeds (pan and tilt) of 0.1 to 120 degrees per second. The camera provides a pan range of up to 360 degrees continuous rotation.

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Technical specifications	
Sensor	1/2.8" progressive scan CMOS
Effective Picture Elements	1945 x 1097 (2,13 MP)
Lens	30x zoom 4.5 mm - 135 mm (F1.6 - F4.4)
Optical Zoom Field of View (FOV)	2.4° - 60.9°
Focus	Automatic with manual override
Iris	Automatic
Digital Zoom	16x
Video performance - Sensitivity	
(3100K, reflectivity 89%, 1/30, F1.6, 30 IRE)	
Color	0,05 Lux
Mono	0,01 Lux
High dynamic range	94 dB (measured according to IEC 62676 Part 5)
Electronic Shutter Speed (AES)	1/30 s to 1/15000 s (12 steps)
Signal-to-noise Ratio (SNR)	>55 dB (AGC off)
Noise Reduction	Intelligent Dynamic Noise Reduction
Backlight Compensation (BLC)	On/Off
Intelligent Defog	Automatically adjusts parameters for best picture in foggy or misty scenes (Auto/Off)
White Balance	Standard Auto, Sodium Lamp Auto, Basic Auto, Manual, Hold, Dominant Color Auto
Day/Night	Mechanical switchable IR filter (Auto/On/off) Monochrome
Video Content Analysis	
Analysis type	Essential Video Analytics
Configurations	Silent VCA / Profile1 - 16
Alarm rules (combinable)	Any object Object in field Crossing line Entering field Leaving field Loitering Following route Idle object Removed object Counter Occupancy Crowd detection Condition change Similarity search Tampering
Object filters	Duration Size Aspect ratio v/h

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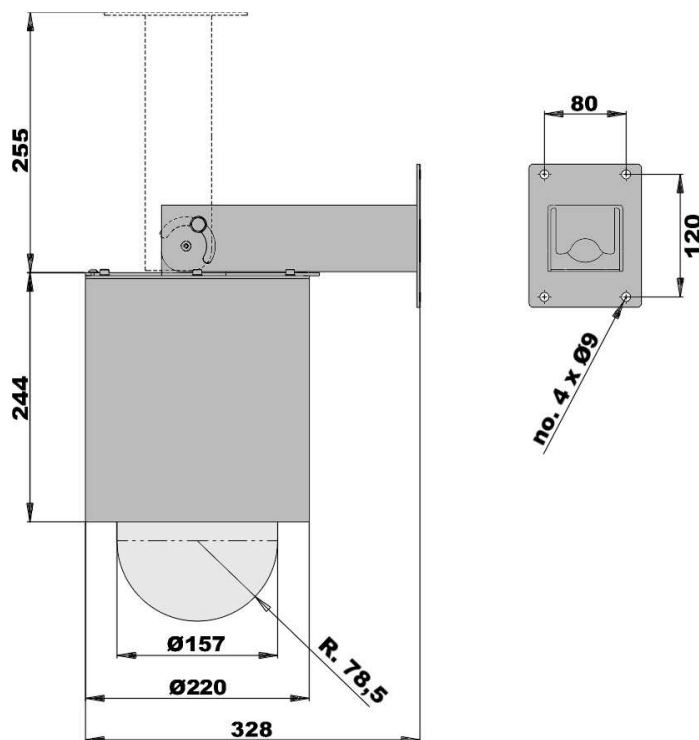
	Speed Direction Color Object classes (Upright persons, Bikes, Cars, Trucks)
Calibration	Automatic self-calibrating when height is set
Network	
Video compression	H.265 H.264 M-JPEG
Streaming	Multiple configurable streams in H.265, H.264, and M-JPEG; configurable frame rate and bandwidth.
Frame rate	60fps at all resolutions
IP delay (typical)	60 fps: 200 ms
Resolution (O x V)	
1080p Full HD (16:9)	1920 x 1080
720p HD (16:9)	1280 x 720
1,3 MP (5:4)	1280 x 1024 cropped
D1 4:3 (cropped) (4:3)	704 x 576
640x480 (4:3)	640x480 cropped
432p SD	768 x 432
288p SD	512 x 288
Ethernet	10/100BASE-T
Encryption	TLS 1.0, SSL, DES, 3DES, AES
Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, V3, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, noip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox™, CHAP, digest authentication, Stratocast Genetec
Interoperability	ONVIF Profile S, ONVIF Profile G, ONVIF Profile T, GB/T 28181
Local Storage	
Memory card slot	Support a memory card with a maximum of 32 GB microSDHC / 2 TB microSDXC (usersupplied). (An SD card of Class 6 or higher is recommended for HD recording.)
Miscellaneous	
Sector/Titling	16 independent sectors with 20 characters per title
Privacy Masks	24 individually configurable privacy masks
Privacy Masks pattern	Black, White, Gray, Auto (average background color)
Supported Languages	English, German, Spanish, French, Italian, Dutch, Polish, Portuguese, Russian, Japanese, Chinese (simplified)
Audio	
Compression	G.711, 8kHz sampling rate L16, 16kHz sampling rate AAC, 16kHz sampling rate

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Interface	1/1 Channel In/Out
User Connections	
Power	RJ45 10/100 Base-T PoE + (IEEE 802.3at, classe 4 standard) 21-30 Vac (50/60 Hz)
Alarm Inputs	2
Alarm Outputs	1 relay output 32 Vdc, 150 mA max.
Audio	1x mono line in, 1x mono line out
• Signal line in	94 kOhm typical, 1 Vrms max.
• Signal line out	1 kOhm typical, 1 Vrms max.
Mechanical	
Pan/Tilt Modes	Normal: 0,1°/s - 120°/s Turbo pan: 0,1°/s - 300°/s; Tilt: 0,1°/s - 200°/s
Pre-position Speed	Pan: 300°/s Tilt: 200°/s
Pan Range	360° continuous
Tilt Angle	from -90° to 0°
Preposition Accuracy	± 0,1° typ.
Pre-positions	256
Tours	Two (2) types of tours: - Recorded tours: two (2), maximum total duration 15 minutes (depending on the amount of commands sent during recording). - Pre-position tour: one (1), consisting of up to 256 scenes consecutively, and one (1), customized up to 64 scenes.
Electrical	
Input voltage	110Vac, 230Vac, 24Vac and PoE+ (802.3at)
Power consumption	14 W (heater OFF) / 40 W (heater ON) if powered 110-230-24Vac 14 W (heater OFF) / 24 W (heater ON) if powered PoE+
Environmental	
Ingress Protection Rating/ Standard	IP67
Operating temperature	from -30 °C to +60 °C (if powered 110-230-24Vac) from -10 °C to +60 °C (if powered PoE+)
Humidity	0% to 100% RH, condensing
Storage temperature	from -40 °C to +60 °C
Construction	
Dimensions (Ø x H)	Ø220x244mm.
Weight	11Kg.
Construction material	housing: AISI 316L stainless steel electropolished bubble: anti-reflective polycarbonate, antistatic, scratch-resistant, hydrophobic, protection against UV rays

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TECHNICAL DRAWINGS



the values are in millimeters

VERSION COMPATIBILITY CHART

model	power input		
	POE+	230	24
DCX5000	●	●	●
DCX5000/FO (with media converter Optical Fiber)	●	●	●