

Zone 1 IP Camera Scout 100-IP-Exd



Scout 100C-IP-Exd with
pendulum PMB03



Scout 100F-IP-Exd with
swivel head bracket SHB01

Scout 100-IP-Exd Zone 1 camera is designed to assist crane operators carry out the safe transfer of loads in non-explosive environments, even during blind lifts.

The Scout 100-IP-Exd Zone 1 camera can be delivered both as crane camera, and as fixed camera.

Inside the camera housing the IP camera is equipped with CFCB-HD with full-HD (H.264) and are certificated with ONVIF standard as an all-in-one compact zoom camera.

Camera include standard features such as an advanced industrial surveillance, high-resolution, colour camera unit with a thermostatically controlled heating element, integrated lens, 18x optical zoom, auto-focus (overrideable), advanced auto-iris and true day/night functionality, providing high picture quality even under poor light conditions.

SAFETY FOCUS

The Scout 100-IP-Exd camera mounts onto crane booms with Scout CCTV's oil-free PMB mounting bracket and Certex-approved safety wire.

BENEFITS

- Simple operation and easy installation
- Highly durable stainless steel housing
- Compact design
- Can be installed on virtually any type of crane

PRODUCT FEATURES

- 30x optical zoom (12x digital zoom)
- Sony Exmor® with Sensor with 2,38 megapixel
- HD Video upto 1080p at 30fps on H.264 stream
- Automatic wide dynamic range function
- Power input 12V DC or PoE (to be specified)
- Securely mounts onto Scout's oil-free PMB bracket and Certex-approved safety wire
- Combines with Scout Safe Zone or / and Ex power supply, junction box, monitor, control box and fixed cameras
- Pre-installed thermostatically controlled heating element
- Connects with a standard halogen-free, mud resistant Cat7 cable for transmission of video, telemetry and power

Specifications

CAMERA

Camera module	Sony FCB EH6500
Image sensor	1 /2.8" Sony® EXMOR® Sensor, Approx. 2.38 Million Pixels
Resolution	1080P, 1080i and 720P HD and Full HD Standard.(SMPTE-274 / SMPTE-296)
Lens	F= 4.3 mm (WIDE) to 129 mm (TELE), F1.6 to F4.7
Zoom	30× optical zoom, 12x digital zoom
Angle of view (H)	Approx. 59.5 degrees (WIDE end), approx. 2.1 degrees (TELE end) (1080i mode) Approx. 40.6 degrees (WIDE end), approx. 1.43 degrees (TELE end) (720p mode)
Min. illumination	ICR-Off (Day-mode / Color): 1.4 lux (CMOS Gain mode OFF) ICR- On (Night-Mode / BW): 0.1 lux (CMOS Gain mode OFF) Recommended illumination 100 to 100,000 lux
Focus	Full automatic / manual, Auto resume auto-focus on PTZ command Adjustable focus sensitivity
S/N ratio	SN ratio >50dB.
White balance	Full Auto, Auto-Tracking WB, manual, outdoor, indoor
Image enhancement	Back-light compensation Image Sharpness adjustment (aperture control). 15 levels. Exposure compensation Wide Dynamic Range mode Fog penetration (Defog) with 3 level threshold. Advanced Image noise reduction, 6 levels. Variable Gamma Mode for fine tuning with Gamma offset Chroma noise suppression in low-illumination mode Color Saturation Adjustment Color Hue adjustment from -14 to +14 degree
Auto Exposure (AE)	Full auto / Shutter, Iris or Brightness priority mode/ manual. Shutter speed adjustable from 1 to 1/10000 sec. Day/Night mode support: Auto, Manual selection.
Video /Audio Compression	H.264 BP/MP/HP level 5.0, MJPEG compression, Max. 1080P30 with H.264 encoding, up to 3 simultaneous streams, Mainstream (Full HD or HD) + Sub-Stream(D1), G711 A/U audio compression
Video Resolution	Full HD: 1080P25, 1080P30, 1080i50, 1080i60 HD format: 720P25,720P30, 720p50,720P60 D1 (640x480), CIF (352x288)
Bitrate Control	Constant Bitrate(CBR) and Variable Bitrate (VBR) Support Bitrate adjustable from 256K/s to 8 Mbit/s Constant QP rate control ROI based, Ultra Low-bitrate video compression by maintaining video quality.
Protocol	ONVIF 2.1 compliant, GB-28181 supported
Network protocol supported	TCP, UDP, HTTP, DHCP client, DDNS, NTP, FTP, SMTP, IPv4, RTP, RTSP
Power	PoE 802.3at, Peak 30W / 24W Conti. (for operation with heater, 802.3at high-power PoE is required) or 12V DC /24W (to be specified)

ZONE 1 CAMERA HOUSING

Material	316L stainless steel
Dimension	Ø101 x L325
Weight	4,8 kg
Ingress protection	IP66
Approval	DNV-2004-OSL-ATEX-0115
Ex-protection	⚡ II 2G / Ex d IIC T6
Operating temp.	-40°C - +50°C
Entries	Gland M20