XP40 TI IP series

Explosion proof, PTZ camera station

Overview

The Oxalis XP40 is an explosion protected PTZ camera station for use in hazardous areas in onshore, offshore, marine and heavy industrial environments.

Our camera stations are designed and manufactured for longevity in harsh environments with minimal maintenance.

Features

- ATEX & IECEx certified
- Temperature alarm option
- Electro-polished 316L stainless steel on all welded assemblies
- Supply voltage options (24, 110, 230 VAC, 50/60Hz or 24 VDC)
- Pole or wall mounting options (see separate datasheets)
- Operating temperature from -60˚C to +70˚C*
- IP66/67

ATEX IECEx INMETRO

Eaton
Unit B, Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
United Kingdom
NG17 5FB

T: +44 (0) 1623 444 400
www.crouse-hinds.com/hac
MEDCSales@Eaton.com

Powering Business Worldwide

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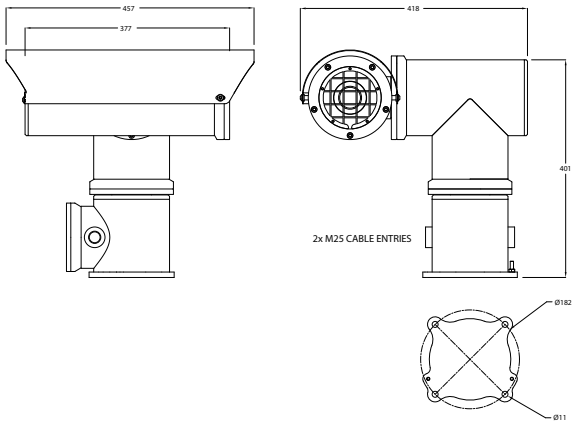
Certifications

ATEX	II 2 G Ex db (op pr) IIC T4 Gb -60°C to +70°C II 2 D Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ITS16ATEX101021X
IECEx	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: IECEx ITS 15.0068X
INMETRO	Ex db (op pr) IIC T4 Gb -60°C to +70°C Ex tb (op pr) IIIC T140°C Db IP6x On Request: T5 -60°C to +65°C, T6 -60°C to +40°C On request: T135 -60°C to +65°C Certificate: ULBR 17.0063X

General arrangement drawing (all dimensions in mm)



Specifications

Features		Electrical	
Sun shield	Standard stainless steel 316L mirror finish	**Supply voltage options**	24, 110, 230 VAC, 50/60Hz or 24 VDC
Integral demister	Standard	**Power consumption**	85W maximum (143W with low temperature operation)
Pan speed (maximum)	45° per second	**Electrical connections**	Terminal block for power, RJ45 for network
Tilt speed (maximum)	24° per second	**Cable entry**	2 x M25 entries located in the base (1 plugged)
Pre-set positional accuracy	64 presets: positional accuracy±0.1°	**Mechanical**	
Telemetry receiver	Integral	**Body material**	Electro-polished 316L stainless steel on all welded assemblies
Rotation	Continuous pan or 350° rotation (+/- 175° from straight ahead)	**Fixings material**	A4 stainless steel
IP direct fibre out	Optional media converter, duplex/simplex singlemode 9/125µm or multimode 50/125µm ,10/100Mb ethernet, IEEE 802.3	**Camera station window**	Internal AR and external carbon coated germanium 50Ø with protective grill
IP over coax	Optional integrated IP ethernet-over-coax converter (must be used with compatible Rx equipment)	**Mounting options**	Pole or wall (see separate datasheets)
Ingress protection rating	IP66/67	**Operating temperature**	From -60°C to +70°C (model dependent)
Type approval	DNVGL-CG-0339, 2016 (copper transmission only)	**Weight (Kg)**	Up to 33 kg depending on configuration
Thermal camera options			
Q1942-BARE 8.3fps		**Q1942-BARE-35 8.3fps**	
Image sensor	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps	**Image sensor**	Uncooled Micro bolometer 640x480, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps
Lens	Athermalized, 19 mm, F1.23, Horizontal field of view: 32°	**Lens**	Athermalized, 35 mm, F1.2, Horizontal field of view: 17°
Streaming	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264	**Streaming**	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264
Features	Compression, mirroring of images, rotation, multiple palettes, brightness, sharpness, contrast, electronic image stabilization, automatic gain control, exposure zone, max gain, text and image overlay, privacy mask. Analytics - video motion detection, shock detection	**Features**	Compression, mirroring of images, rotation, multiple palettes, brightness, sharpness, contrast, electronic image stabilization, automatic gain control, exposure zone, max gain, text and image overlay, privacy mask. Analytics - video motion detection, shock detection
Standard protocols	IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S	**Standard protocols**	IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S
Q2901-BARE 8.3fps			
Image sensor	Uncooled Micro bolometer 336x256, pixel size: 17 µm Spectral range: 8-14 µm upto 8.3fps		
Lens	Athermalized, 19 mm, F1.23, Horizontal field of view: 17°		
Streaming	H.264 (MPEG-4 Part 10/AVC) Baseline, and Main profiles, Motion JPEG. Three H.264 and Motion JPEG streams, Controllable frame rate and bandwidth VBR/CBR H.264		
Features	Temperature Alarm and isothermal palettes, Spot temperature, sharpness, automatic gain control, exposure zones, max gain, rotation, palette, isothermal palette, compression, mirroring, text and image overlay, privacy masks analytics - video motion detection, shock detection		
Standard protocols	IPv4/v6, HTTP, HTTPSa, SSL/TLSa, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, ONVIF Profile S		
Thermography	Object temperature range -40 °C to 550 °C (-40 °F to 1022 °F) Temperature alarm zones triggering alarms based on deviation of the temperature		

Ordering requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box

XP40 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Housing type	Code
Thermal imaging housing with 50mm germanium window	BT

Wiper options	Code
No wiper	N

Video type	Code
IP	I

Day/night module	Code
No D/N camera fitted	N

Thermal core module	Code
Q1942-BARE 8.3fps	5
Q2901-BARE 8.3fps T-ALARM	6
Q1942-BARE-35 8.3fps	7

Thermal core lens	Code
19mm lens	1
35mm lens (Q1942 ONLY)	3

Video system	Code
IP	I

Supply voltage	Code
24 VAC ±10% 50/60 Hz	1
110 VAC ±10% 50/60 Hz	2
230 VAC ±10% 50/60 Hz	3
24 VDC ±10%	4
Special - price on application	S

Camera rotation	Code
Continuous rotation	1
Pan rotation restricted to +/- 175°	2

Protocol requirements	Code
Pelco D protocol, baud rate 2400bps	D
Special - price on application	S

Certification	Code
ATEX	A
IECEx	I
INMETRO	M

Temperature type	Code
T4, -20˚C to +70˚C	A
T4, -40˚C to +70˚C	B
T4, -60°C to +40°C	3
T5, -20˚C to +65˚C*	C
T5, -40˚C to +65˚C*	D
T5, -60°C to +40°C	6
T6, -20°C to +40°C*	7
T6, -40°C to +40°C*	8
T6, -60°C to +40°C*	9

*Subject to configuration restrictions

Transmission type	Code
Standard electrical	0
Simplex singlemode 9/125µm ethernet	3
Simplex multimode 50/125µm ethernet	4
IP over coax	5
Duplex singlemode 9/125um	6
Duplex multimode 50/125um	7

Cable Tail Length	Code
No cable tail	00
3 metre	03
5 metre	05
7 metre	07
10 metre	10
15 metre	15
Specify length	*S