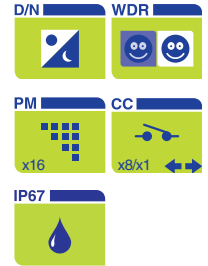


# HD18EXP

# Explosion-Proof PTZ dome with day/night

## Features

- 36x Optical Zoom/12x digital zoom
- Day/Night with IR-cut filter
- Wide Dynamic Range
- Backlight Compensation
- Electronic Image Stabilization
- IP67 Ingress Protection
- ATEX approved for gas and dust
- Fan and heater



## Description

The Siquira® HD18EXP is designed for use in potentially explosive atmospheres and harsh environmental conditions. The camera housing is manufactured completely from Stainless Steel 316 which is ideally suited for use within the offshore and onshore environments. Stainless Steel screws and mounting bracket are incorporated ensuring a totally corrosion free unit.

### Day/Night, Backlight Compensation, and Wide Dynamic Range

The HD18EXP provides automatic day/night functionality, for use in low light situations. Backlight compensation enhances image visibility in difficult lighting conditions. Wide dynamic range solves the problem of overlit images by combining the best of two pictures with different light references.

### High-Speed Dome

This high speed dome has an 36x auto focus zoom lens with 12x digital zoom. Precision 400° per second pan and tilt drive technology offers almost instant preset positioning. Support for many presets, cruises and sequences provides a highly flexible manual or automatic operation.

### Image Stabilizer

When the high-speed dome is in its maximum zoom range, every small movement of the camera gives a relatively large movement in the picture. The image stabilizer digitally compensates this movement for a stable picture. This feature is especially useful for pole-mounted domes.

## Ordering Information

### Model

Siquira HD18EXP /N  
Siquira HD18EXP /P

### Description

High speed dome, 36x Optical zoom, Explosion-Proof, Stainless Steel, NTSC  
High speed dome, 36x Optical zoom, Explosion-Proof, Stainless Steel, PAL

# HD18EXP

## Technical specifications

# Explosion-Proof PTZ dome with day/night

### Camera

Image sensor	1/4" CCD	
Optical zoom <sup>1</sup>	36x	
Digital zoom <sup>1</sup>	12x	
Resolution	NTSC	PAL
Effective pixels	380k	440k
Horizontal resolution	540 TVL	540 TVL
Electronic shutter	1~1/10 k s	
Video output	1.0 Vpp/75Ω	
S/N ratio	>50 dB (AGC off)	
Minimum illumination	0.1 lux, 0.01 lux (B/W)	
Angle of View	55.8° wide to 1.55° Tele	
Focal length	3.4 - 122.4	
Focus mode	Auto/ manual	
White balance	Auto/ manual	
Iris control	Auto/ manual	
AGC control	Auto/ manual	
Backlight compensation	On/ Off	

### Functions

Day/ Night (IR-cut filter)	On/ Off
Digital slow shutter	On/ Off
Wide Dynamic Range	On/ Off
Privacy masks	16
PTZ coordinate data	Via API or Pelco-D (set/get)
Directional OSD	Compass direction, Azimuth, Elevation

### Contact Closures

Inputs	8
Outputs	1
Reactions	Preset, Sequence, Auto pan, Cruise

### Mechanical

Dimension (h x w x d)	Ø195 x 373 mm (Ø7.7 x 14.7 in.)
Weight	14 kg (30.9 lbs.)

### Materials

Housing	Stainless Steel 316
Bubble	3mm Polycarbonate
Bubble Coating	Factory-applied for up to 3 years maintenance-free operation.

### Pan/Tilt

Pan travel	360° continuous
Tilt travel	-10° ~ 190°
Preset speed	400°/s
Manual speed	0.5° ~ 90°/s
Presets	256 presets
Preset accuracy	+/- 0.100°
Cruise	8
Sequence	8
Auto pan	4
Proportional pan & tilt	On/ Off
Resume after power loss	Yes
Zone title	16
Home function	Preset, Sequence, Auto pan, Cruise
Auto flip	Digital/ Mechanical/ Off

### Environmental

Operating temperature (Camera)	Continuous -45°C to +50°C (-49°F to +122°F); 60° C. (140° F) Max.
Certified Temperature (Camera) <sup>2</sup>	Continuous -20°C to +40°C (-4°F to +104°F)
Ingress protection	IP66, IP67 (IP68 on request)
Certification <sup>2</sup>	ATEX, II 2 G/D, Exd IIB T5 T100 °C Zone 1/21 and 2/22 1 x M20 and 2 x M25 (EExd)
Entries	1 x M20 and 2 x M25 (EExd)

### Powering

Power consumption	20W (45 W with heater)
Power	24VAC +/- 20%

<sup>1</sup> Maximum zoom operation can give optical distortion because of Exd Polycarbonate Bubble

<sup>2</sup> Certifications are site specific. Please consult factory with detailed requirements.

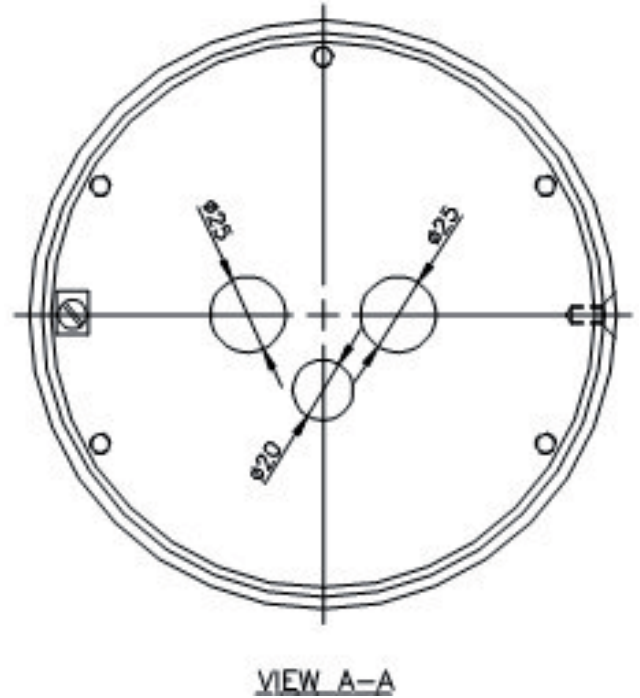
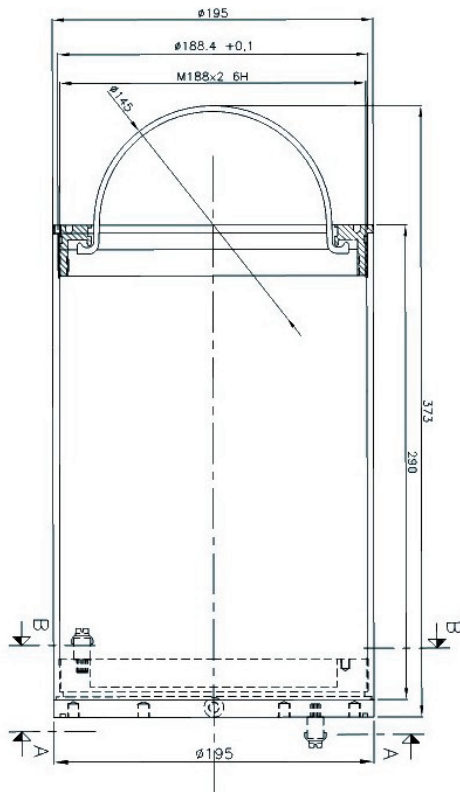


The quality management system utilized in the development, production, sales and support of this product is ISO 9001:2008 certified by LRQA.

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Ordering Information Accessories

Model	Description
WMEX-01	Wall Mount, Stainless steel, Explosion-proof PTZ
PMEX-01	Pole Mount, Stainless steel, Explosion-proof PTZ
CMEX-01	Ceiling (Pendant) Mount, Stainless steel, Explosion-proof PTZ.



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