

# ZCAM4-5

## HAZARDOUS AREA HD IP PTZ CAMERA

DS-071 Issue 01

ZIZCAM Ltd are a UK based manufacturer of CCTV Cameras for use in the Hazardous Oil, Gas and Petrochemical industries.

Consequently our products are very robust and designed to comply with international standards.

Please do not hesitate to contact us for further information on our products we look forward to working with you on a project soon...

### ZIZCAM FOR HAZARDOUS AREAS

*High Definition (HD 1080p) onboard camera*

*Continuous 360 degree rotation*

*Direct drive, Zero backlash Brushless DC motors for longevity*

*Outstanding accuracy and dynamic range*

*AISI 316L Stainless Steel*

*ONVIF compliant*

*Direct Fibre output or Ethernet*



ZIZCAM moves forward the Oil & Gas Petrochemical CCTV market with a new and exciting product.

The ZCAM4-5 uses technology new to the CCTV industry, providing outstanding and ultra-reliable performance. Each axis is driven directly without intermediate belts or gears by our unique brushless DC digital servo drives to give a previously unattainable level of positional accuracy, repeatability, zero backlash, smoothness and silent operation. This results in military performance at commercial cost, with very long life and maintenance free, leading to low cost of ownership.

The ZCAM4-5 motors have positional intelligence, and will maintain or recover to its correct position immediately in heavy winds or being knocked out of position.

The ZCAM4-5 is constructed entirely from AISI 316L stainless steel for low maintenance and protection from corrosion, small in appearance, lightweight and designed for easy installation and maintenance.

Certified for use in ATEX/IECEX hazardous gas and dust environments, the ZCAM4-5 range provides for all requirements of safety and surveillance monitoring for hazardous areas.

ZIZCAM LIMITED

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ZIZCAM Ltd have a policy of continuous product improvement and contents herein are liable to change without notice.



## Technical Specifications

General Specifications	
ATEX Hazardous Area Rating:	II 2 G Ex db, eb, op-pr, IIC T6-T4, Gb, Tamb -60°C to +70°C II 2 D Ex tb IIIC T135°C Db
IECEX Hazardous Area Rating:	Ex db, eb, op-pr, IIC T6-T4, Gb, Tamb -60°C to +70°C Ex tb IIIC T135°C Db
CE Approval:	CE Compliant to ATEX 2014/34/EC and EMC 2014/30/EU Directives
Construction:	Stainless Steel AISI 316L
Supply Voltage:	48VDC 2.0A max (Optional factory fitted 85-264VAC Mains PSU in base)
Power Consumption:	72 Watts max
Cable Entries:	2 x M20/M25 Ex d barrier gland entry at base, Power, Ethernet CAT6 or Fibre Optic field cables
Weight:	22Kg
Mounting:	4 x M10 fixings on 164mm PCD
Certified Temperature Rating:	-60°C to +70°C
Operating Temperature:	-20°C to +60°C standard (-40°C & -60°C option on request)
Ingress Protection:	IP66, IP67 & IP68
Pan Tilt Unit	
Pan Angle:	360° continuous rotation
Tilt Angle:	+90°/-90° max from horizontal (360° continuous rotation option)
Preset positions:	200 Fitted as standard, optical encoder.
Positioning accuracy:	+/-0.02°
Speed:	Variable 0.05 to 200°/sec Pan and Tilt (nominal) zero backlash. Proportional Pan/Tilt control, continually matches pan and tilt speeds to zoom position
Encoder & Telemetry Control Receiver Driver	
Pan Tilt Motor Drive:	48VDC variable speed, brushless DC motors
Lens Control:	Via integral serial interface Pelco protocol
Communication:	Ethernet to internal encoder RS422/RS485 Pan Tilt interface and washer control
Auxiliary relay Protocols:	Pelco P and D as standard, or to customer specification
Auxiliary Relays:	2 x 24VDC relays for wash wipe

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Zoom Camera Module : Full HD 30x Zoom module	
Imager:	1/2.8" CMOS Progressive scan
Effective Pixels:	2.1 Megapixels
Resolution:	1920 x 1080p @ 25fps
Optical Zoom:	30x
Digital Zoom:	OFF/ON (max. 12x)
Focal Length:	4.3mm to 129mm, F1.6(Wide) / F5.0(Tele)
Horizontal angle of view:	65.1° to 2.34° (Wide-Tele)
Focus:	Auto/Manual
Day & Night:	Auto/Manual (ICR) Colour / B/W
Iris:	Auto
Wide Dynamic Range:	Yes
Digital Noise Reduction:	3D
Shutter speed:	1/1 sec~ 1/10,000 sec
Backlight compensation	On/Off
White Balance:	Automatic with manual override
Minimum illumination:	Colour: 0.5 Lux, B/W: 0.01 Lux ICR on

Networking features :	
Ethernet connection:	RJ-45 (10/100BASE-T) or Direct Fibre output via media converter or SFP in base.
Video Compression:	H.264 Main, MJPEG
Encoder output:	1080p and D1 resolutions, 25fps
Video bitrate:	32kbps-12Mbps
Streaming:	Dual streaming H.264
Protocol:	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, QoS, HTTPS, IPv6
Security:	Login authentication, Password protected
Operation:	Via Web Page, ONVIF, SDK available

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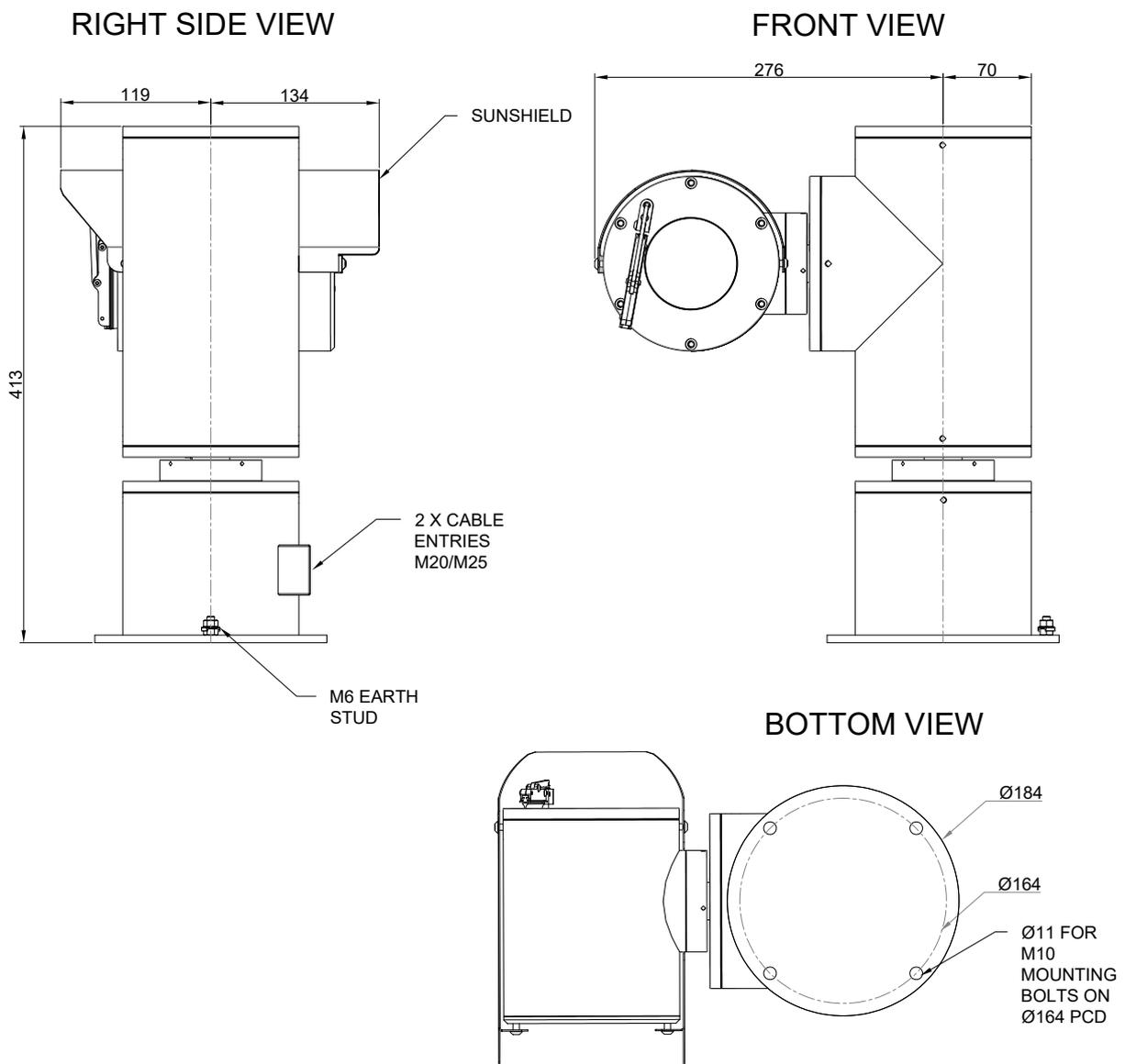
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## Models

- ZCAM4-5 Exd IIC Integrated Pan Tilt, variable speed 0 to 180°/sec, complete with 30x zoom HD camera module, integral heater demister and sunshield.
- ZCAM4-5-W Exd IIC Integrated Pan Tilt, variable speed 0 to 180°/sec, complete with 30x zoom HD camera module, integral window wiper and heater demister and sunshield.

## Dimensions *(model shown ZCAM4-5-W)*



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