

# ZCAM2 *-(WX)*

## HAZARDOUS AREA DAY/NIGHT HD IP CAMERAS

DS-089 Issue 05

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

*2MP High Definition (HD) onboard camera*

*32X Motorised Zoom lens*

*Optional integral window wiper mechanism*

*All AISI 316L Stainless Steel construction*

*Integral interfaces for Direct Fibre output or Ethernet*



ZIZCAM moves forward the Oil & Gas Petrochemical CCTV market with a new and exciting product range. The ZCAM2 range of CCTV fixed cameras developed for use in hazardous areas in all offshore, onshore and marine environments.

These cameras are 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 ZCAM2 range provides for all requirements of daylight and low light safety and surveillance monitoring for hazardous areas.

ZIZCAM LIMITED

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## 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 Directive
Construction:	Stainless Steel AISI 316L,
Supply Voltage:	24VDC 1.25Amp max (Optional factory fitted POE splitter PSU in Housing) (Optional factory fitted 85-264VAC Mains PSU in Housing)
Power Consumption:	30 Watts max (nominal), 65 Watts for -60°C operation (Mains only)
Cable Entries:	2 x M20 Ex d barrier gland direct entry for Power, Ethernet CAT6 or Fibre Optic field cables
Weight:	7 to 9Kg depending on model
Mounting:	Swivel joint for pole top or wall mount bracket
Certified Temperature Rating:	-60°C to +70°C
Operating Temperature:	-25°C to +60°C standard (-40°C & -60°C option on request)
Ingress Protection:	IP66, IP67 & IP68
Encoder & Telemetry Control Receiver Driver	
Lens Control:	Via integral serial interface
Communication:	Ethernet to internal encoder RS422/RS485 wiper 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
Internal Housing Dimensions:	77W x 80H x 165D mm

Ethernet Cabling Interface Options	
Ethernet:	Direct connection via RJ45 CAT6 cable
Fibre Optic interface:	Direct Fibre Optic connection via integral Fibre Optic media converter, with SFP Fibre option

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Zoom Camera Module : HD 32x Zoom module	
Image Size:	1/2.8" 2MP CMOS
Effective Pixels:	1944(H)x1212(V)
Resolution:	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Optical Zoom:	32x
Digital Zoom:	16x
Focal Length:	4.44~142.6mm (32x) motorized varifocal
Horizontal angle of view:	61.8° (w) - 2.19° (t)
Vertical angle of view:	36.2° (w) - 1.24° (t)
Aperture:	F1.6(Wide) / F4.4(Tele)
Focus:	Auto, One shot AF
Day & Night:	Auto (ICR) / Colour / B/W
Iris:	DC Auto IRIS
Wide Dynamic Range:	120dB
Digital Noise Reduction:	SSNR V
Electronic Shutter speed:	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)
Backlight compensation	BLC, HLC, WDR, SSSDR
White Balance:	ATW / AWC / Manual / Indoor / Outdoor
Minimum illumination:	Colour: 0.03 lux (F1.6, 1/30sec) B/W: 0.005 lux (F1.6, 1/30sec)
Digital Image Stabilization:	OFF/ON
Analytics:	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Digital auto tracking, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line
Alarm I/O:	Input 1ea / Output 1ea (Relay)
Fibre Optic interface:	Direct Fibre Optic connection via integral Fibre Optic media converter
Camera module dimensions:	72W x 63.9H x135.4D mm

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Networking features :	
Ethernet:	RJ-45 (10/100BASE-T)
Video Compression:	H.265/H.264: Main/Baseline/High, MJPEG
Max. Frame rate:	H.265/H.264 : Max. 60fps/50fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Bitrate Control Method:	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming:	Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles)
Protocol:	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTP
Security:	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication(EAP-TLS, EAP-LEAP)
Edge storage:	Micro SD/SDHC/SDXC 1slot 256GB
Memory:	1024MB RAM, 256MB Flash
Web Viewer:	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)

## Models

- ZCAM2-2-WX-\*\*\* Exd IIC Fixed Camera, medium length, complete with 32x zoom HD 2MP IP camera module, heater demister, sunshield.
- ZCAM2-3-WX-\*\*\* Exd IIC Fixed Camera, medium length, complete with 32x zoom HD 2MP IP camera module, heater demister, sunshield and integral window wiper.
- ZCAM2-3L-WX-\*\*\* Exd IIC Fixed Camera, long length, complete with 32x zoom HD 2MP IP camera module, heater demister, sunshield and integral window wiper.

### Add suffix

*HV1, for integral 85-264VAC Mains PSU option.*

*LV1, for integral 24VDC supply option.*

*POE, for POE powered (30W max)*

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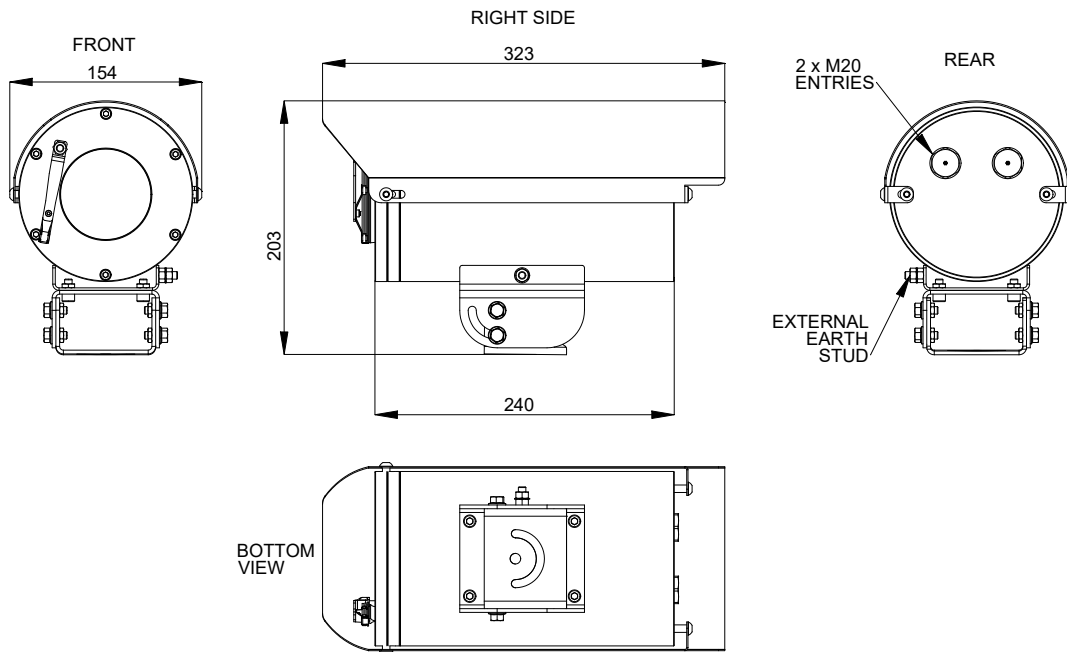
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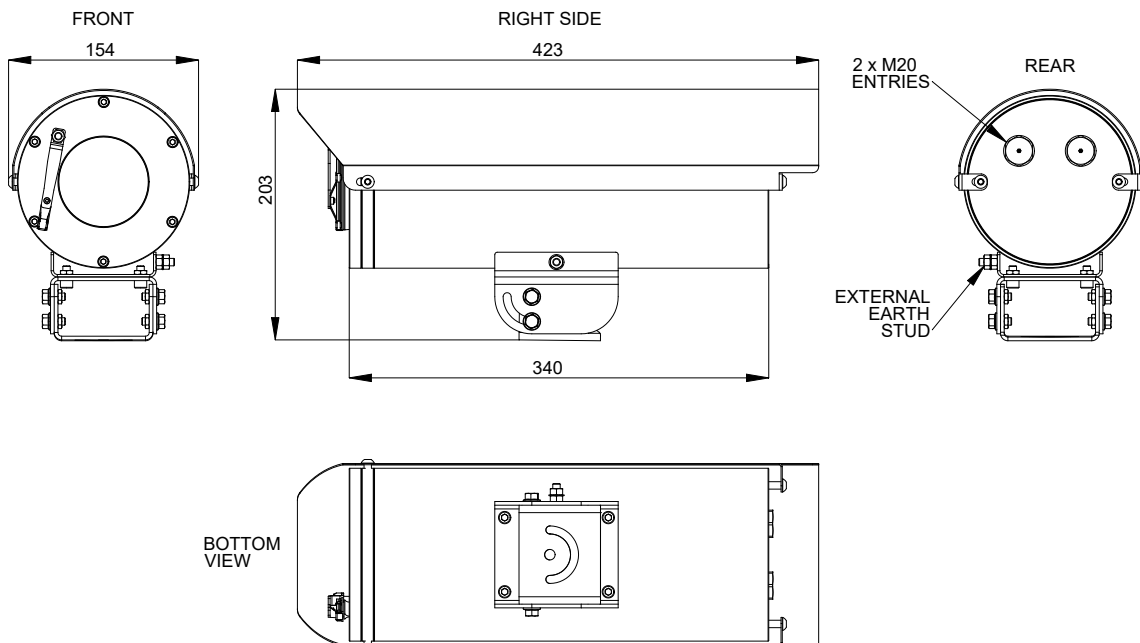
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## Standard Housing Dimensions *(ZCAM2-3 model shown)*



## Long Housing Dimensions *(ZCAM2-3L model shown)*



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