

ZCAM3

HAZARDOUS AREA THERMAL IMAGING CAMERAS

DS-003 Issue 03

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 THERMAL IMAGING FOR HAZARDOUS AREAS

Single Thermal Imaging Camera option

Standard or High Definition visual camera option for dual imager

Fixed focal length or motorised zoom lens options

Optional integral window wiper mechanism

All AISI 316L Stainless Steel construction

Integral interfaces for Fibre or Ethernet

Option for integral EX junction box



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

The ZCAM3 range of CCTV Thermal Imaging 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 ZCAM3 range provides for all requirements of low light and zero 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 d IIC T4-T6, Tamb -60°C to +60°C Gb, II 2 D Ex tb IIIC T135°C Tamb -60°C to +60°C Db
IECEX Hazardous Area Rating:	Ex d IIC T4-T6, Tamb -60°C to +60°C Gb, Ex tb IIIC T135°C Tamb -60°C to +60°C Db
CE Approval:	CE Compliant to ATEX 94/9/EC and EMC 2004/108/EC Directives
Construction:	Stainless Steel AISI 316L,
Supply Voltage:	24 Volt AC 50/60Hz, (Optional factory fitted 110/220VAC step down transformer)
Power Consumption:	32 Watts max, 65 Watts for -60°C operation
Cable Entries:	2 x M20 or M25 Ex d barrier gland direct entry, or Ex d e entries to JB
Weight:	6 to 10Kg depending on model
Mounting:	Swivel joint for pole top or wall mount bracket
Certified Temperature Rating:	-60°C to +60°C
Operating Temperature:	-20°C to +60°C standard (-40°C & -60°C option on request)
Ingress Protection:	IP66 & IP68
Telemetry Control	
Thermal Lens Control:	Digital zoom
Visual Camera Lens Control:	Sony Visca
Communication:	RS422/RS485, as standard
Telemetry Protocols:	Pelco as standard or to customer specification
Auxiliary Relays:	2 x 24VAC relays for wash wipe

Thermal Imager Module :	<i>(Standard Model)</i>	
Imager :	Uncooled VOx Microbolometer, PAL/NTSC Composite Video	
Spectral Range :	7.5 to 13.5µm, Long wave infra red (LWIR)	
Resolution :	324 x 256 pixels	640 x 512 pixels
Lens options :	50mm 9.1° HFOV (standard), 35mm 13° HFOV, 25mm 18° HFOV,	50mm 12.4° HFOV (standard), 35mm 18° HFOV, 25mm 25° HFOV,
Digital Zoom:	2x, 4x and continuous	2x, 4x, 8x and continuous

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Dual Imager CCD Block Camera Module : (Standard Model)	
Imager :	1/4" EXview HAD CCD, PAL/ NTSC, WDR, Day Night, Auto IR Cut filter
Resolution :	550 TV Lines, Wide Dynamic Range (WDR)
Zoom Lens :	36x Optical, f=3.4 to 122.4mm, Autofocus
Day/Night Colour/Mono :	Auto/manual ICR, IR Cut filter removal mode.
Colour Sensitivity :	1.4Lux 1/50sec, 0.1Lux 1/3sec
B/W sensitivity:	0.01Lux Mono 1/3sec

Models

- ZCAM3-TI Fixed Camera, medium length, complete with Thermal Imager, heater demister, sunshield.
- ZCAM3-TI-E Fixed Camera, medium length, complete with Thermal Imager, heater demister, sunshield, and integral EX junction box.
- ZCAM3-TIL Fixed Camera, Long length, complete with Thermal Imager, heater demister, sunshield.
- ZCAM3-TIL-E Fixed Camera, Long length, complete with Thermal Imager, heater demister, sunshield, and integral EX junction box.
- ZCAM3-DI Fixed Dual imaging camera, medium length, complete with visual camera module and thermal imager, heater demister, sunshield.
- ZCAM3-DI-E Fixed Dual imaging camera, medium length, complete with visual camera module and thermal imager, heater demister, sunshield and integral junction box.
- ZCAM3-DI-W Fixed Dual imaging camera, medium length, complete with visual camera module and thermal imager, heater demister, sunshield and integral window wiper.
- ZCAM3-DI-W-E Fixed Dual imaging camera, medium length, complete with visual camera module and thermal imager, heater demister, sunshield, window wiper and integral EX junction box.
- ZCAM3-DIL Fixed Dual imaging camera, Long length, complete with visual camera module and thermal imager, heater demister, sunshield.
- ZCAM3-DIL-E Fixed Dual imaging camera, Long length, complete with visual camera module and thermal imager, heater demister, sunshield and integral junction box.
- ZCAM3-DIL-W Fixed Dual imaging camera, Long length, complete with visual camera module and thermal imager, heater demister, sunshield and integral window wiper.
- ZCAM3-DIL-W-E Fixed Dual imaging camera, Long length, complete with visual camera module and thermal imager, heater demister, sunshield, window wiper and integral EX junction box.

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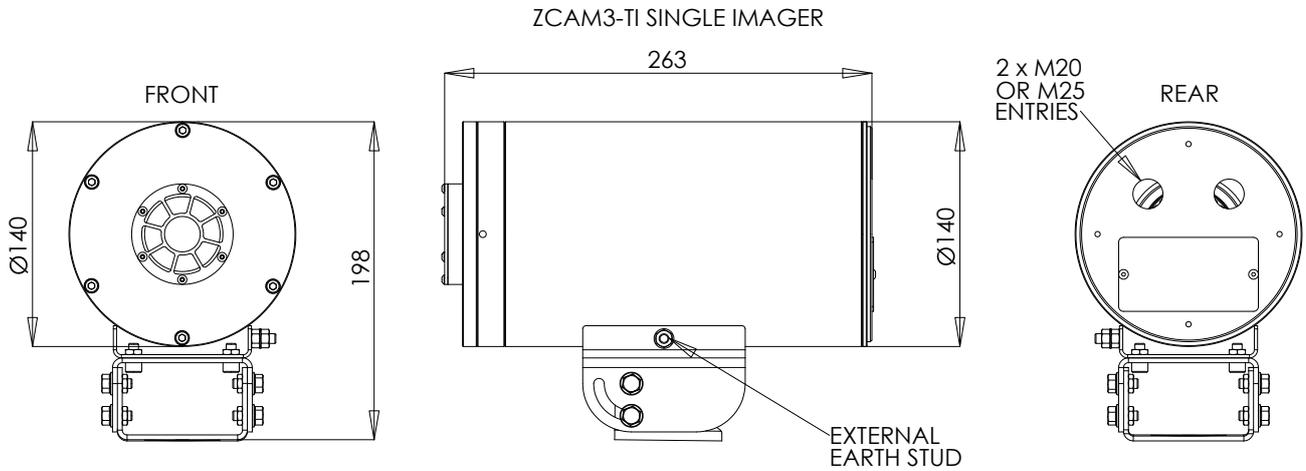
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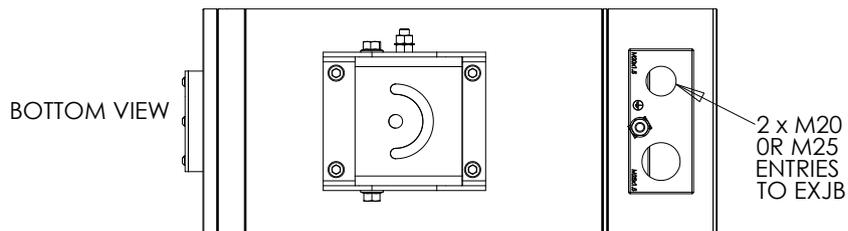
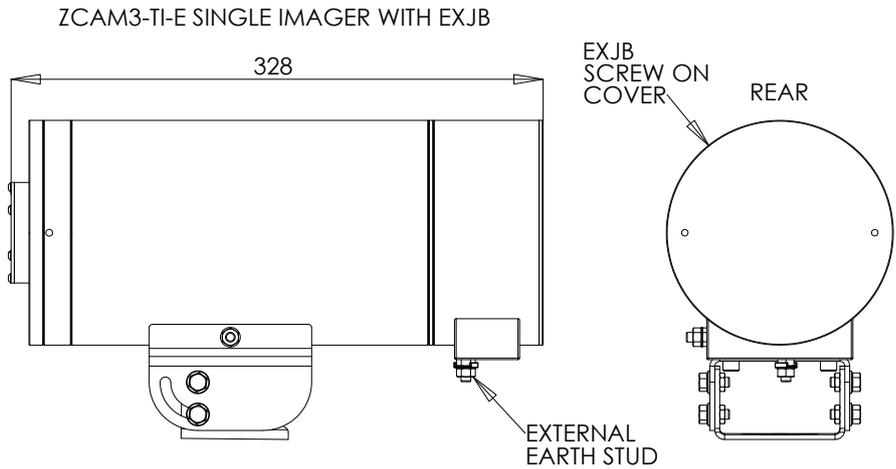


Single Imager Dimensions



HOUSING MODEL LENGTHS :

ZCAM3-TI	= 263
ZCAM3-TI-E	= 328
ZCAM3-TIL	= 363
ZCAM3-TIL-E	= 428



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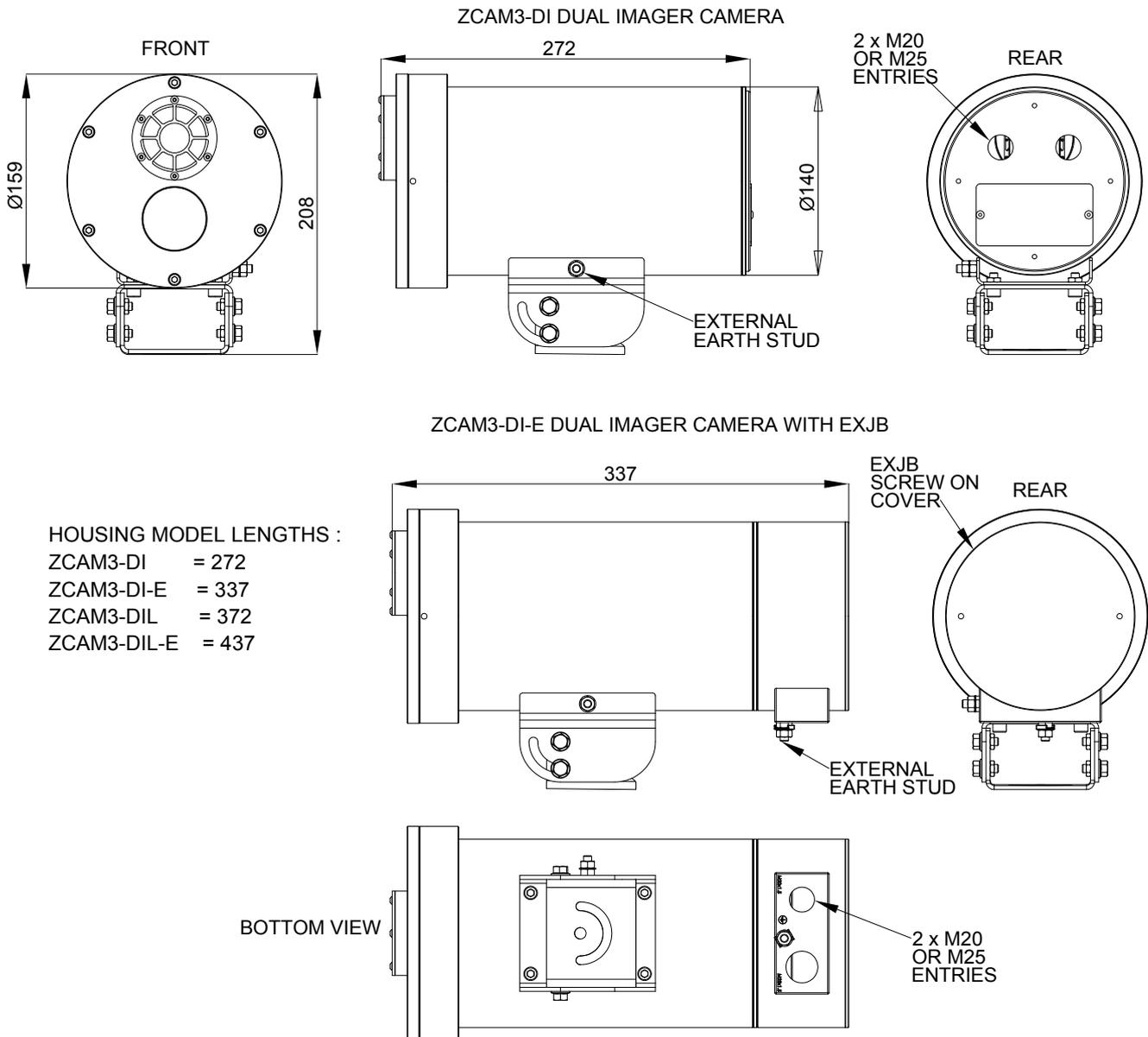
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Dual Imager Dimensions



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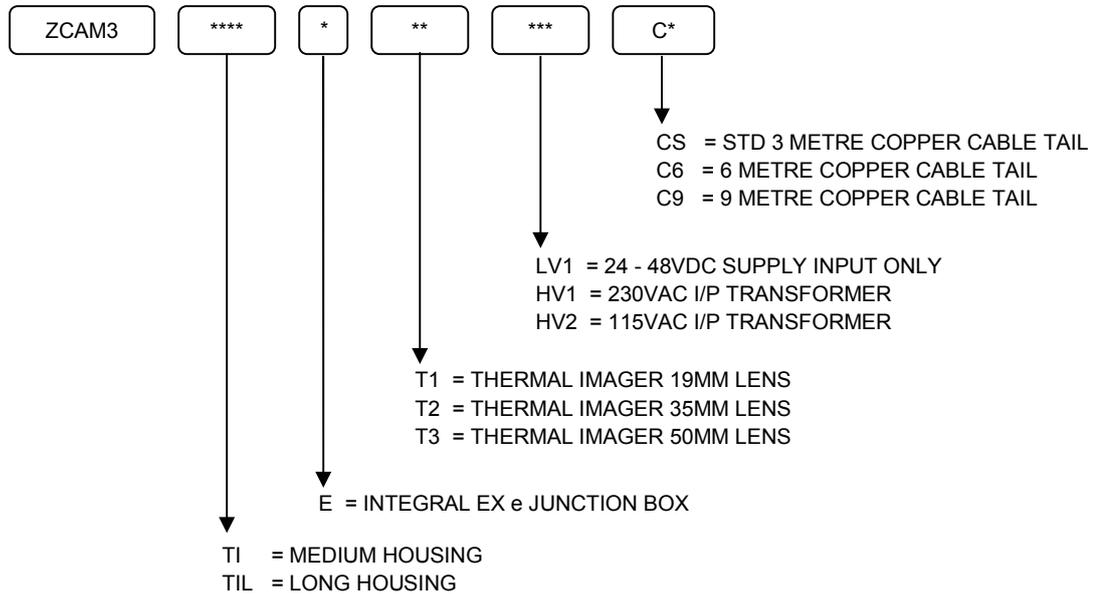
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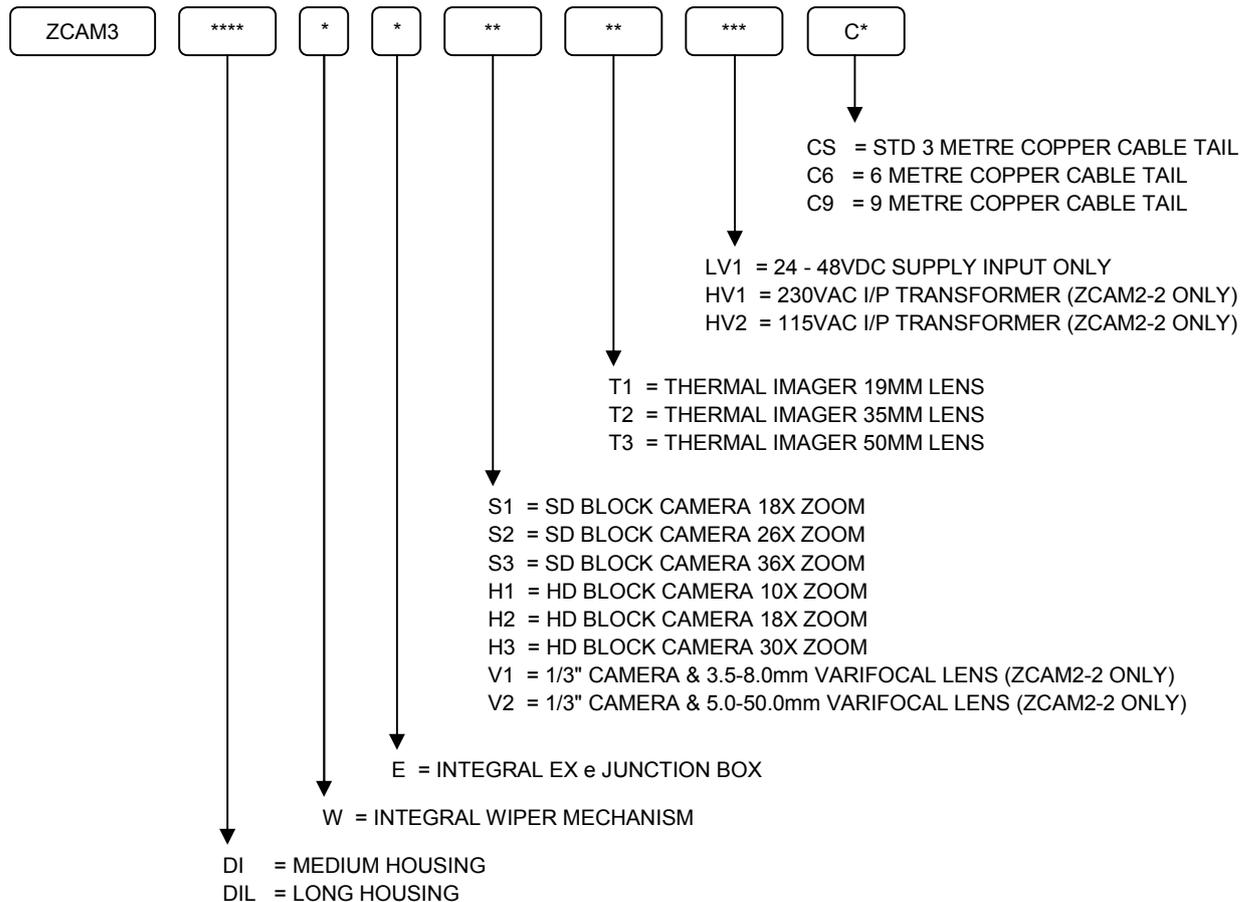


Part number configuration

Single Imager Housing models



Dual Imager Housing models



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