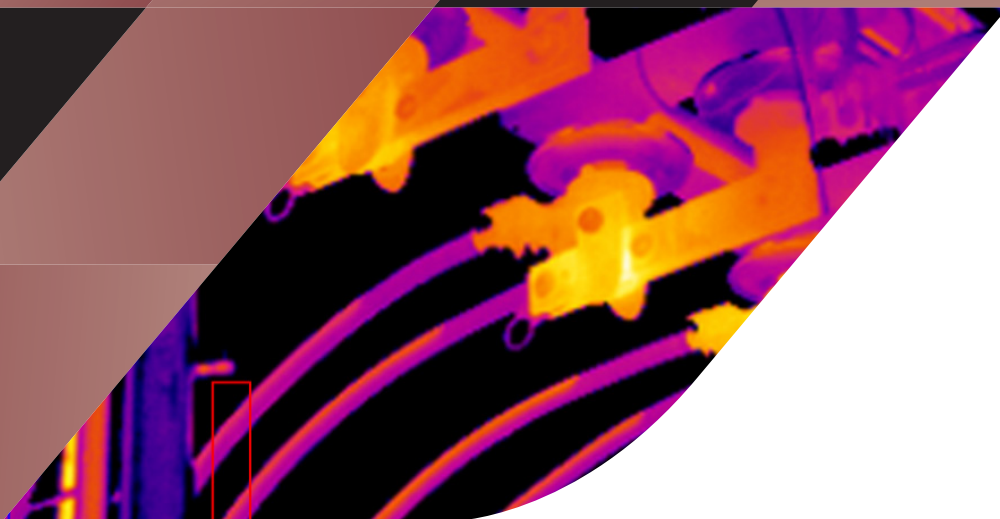
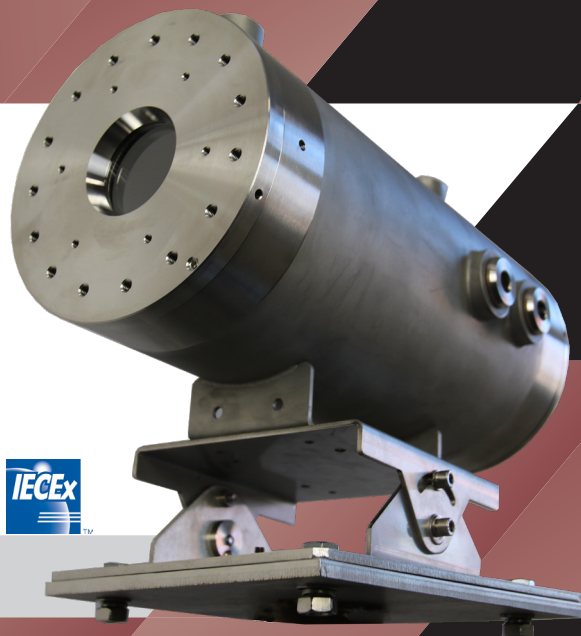


EXSH1 LWIR HOUSING

HAZARDOUS AREA ENCLOSURE FOR
LWIR-640 THERMAL IMAGER



① Zones 1, 21, 2, 22



LAND
AMETEK®



QUALITY CUSTOMER SOLUTIONS

EXSH1 LWIR HOUSING

HAZARDOUS AREA ENCLOSURE FOR LWIR-640 THERMAL IMAGER

AMETEK LAND HAS BEEN MANUFACTURING PRECISION MEASURING EQUIPMENT SINCE 1947.

We are specialists in non-contact temperature measurement and combustion monitoring with applications across diverse industries such as steel and glass making, power generation and cement manufacture.

As part of AMETEK Process & Analytical Instruments Division since 2006, our customers benefit from our worldwide AMETEK sales and service team.

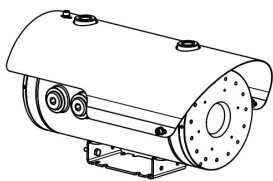
WITH INCREASING DEMAND FOR PRODUCTS TO WORK IN HAZARDOUS CONDITIONS, OUR THERMAL IMAGING CAMERA SYSTEMS PLAY AN IMPORTANT ROLE IN MODERN INDUSTRIAL PROCESSING.

The new EXSH1 flame-proof housing allows the LWIR-640 imager to be used in hazardous areas. Its high specification means that it is suitable for use in almost any application in the harshest of environmental conditions. Multiple certifications mean that a common specification can be used for worldwide applications, greatly simplifying the task of specifying and quoting the product.

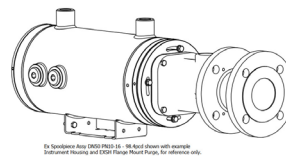
The enclosure has a certified temperature range of -40 to +70 °C (-40 to 158 °F).

Ingress protection to IP66 and IP68 means that it can be exposed to dust, water immersion and high-pressure water jets. The enclosure is manufactured from 316 / 316L stainless steel and is highly resistant to corrosion.

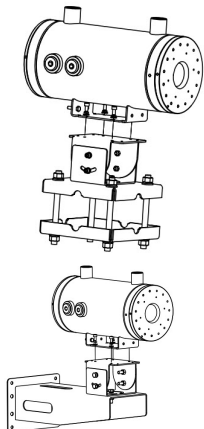
EXSH1 ACCESSORIES



SUN SHIELD - For use in outdoor applications where sunlight could affect application readings.

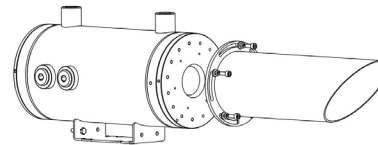


SPOOLPIECE ADAPTOR - Connects flange mount purge to DN50 PN10 or PN16 flange.



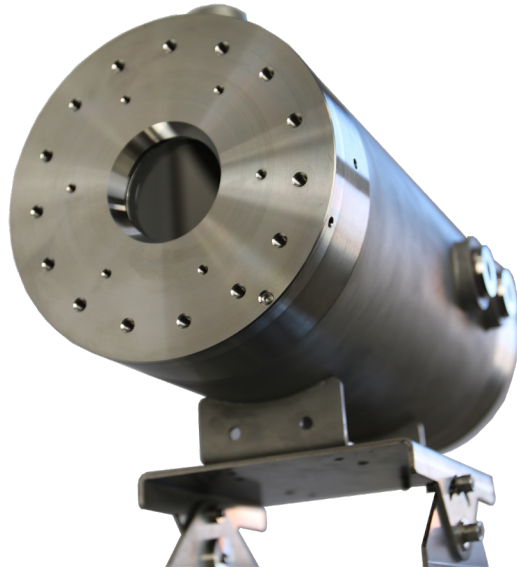
MOUNTING BRACKETS, ALL WITH PAN & TILT ADJUSTMENT - Options include:

- Wall mount
- Pole mount
- Handrail mount
- Mounting stand for floor mounting



ENVIRONMENTAL PROTECTION TUBE - Primarily for flare stack applications.

FEATURES & BENEFITS



LWIR-640



HAZARDOUS INSTALLATION - Ideal for installation in the harshest environments including those where a high probability of explosive mixtures may be present.

WIDE TEMPERATURE RANGE - The system can be installed in a vast range of areas where temperature may affect unprotected products.

SUITABLE FOR GAS AND DUST HAZARDS - The system is certified for use in areas with dust and gas hazards.

HIGH LEVELS OF PROTECTION - Extremely high degree of ingress protection, and highly resistant to corrosion.

GRIDLESS DESIGN- The window does not require a protective grid, allowing an unobstructed field of view.

SAFETY ENCLOSURE - The enclosure does not require purge air for safety.

ACCESSORIES- A range of mounting accessories available to suit many industrial applications.

LWIR-640 SPECIFICATION HIGHLIGHTS	
Measurement Range:	-20 - 120 °C / -4 to 248 °F 0 - 500 °C / 32 - 932 °F 100 - 1000 °C / 212 to 1832 °F
Spectral Response:	8 to 14 µm
Pixel Resolution:	640 x 480 pixels
Frame Rate:	60 Hz / 7.5 Hz
Optics (FOV):	50°x37°, 25°x19°, 12°x9°, 6°x4°
Interfacing:	Gbit-Ethernet
I/O Options:	3x analogue/digital I/O
Smart Functions:	Integrated Webserver

Refer to LWIR-640 brochure for full specifications

TYPICAL APPLICATIONS

- Flare stack monitoring
- Critical vessel monitoring
- Storage pile monitoring
- HPI and chemical applications

EX CERTIFICATION



Certification	Zone	Marking	Certified Ambient Temperature	Functional Ambient Temperature
ATEX, IECEx and UKEX	1 & 21	II 2 G D Ex db IIC T6 Gb Ex tb IIIC T85 °C Db	Ta= -40 °C to +70 °C	-40 °C to +50 °C (No cooling) To +70 °C (Water or Air cooling)
	2 & 22	II 3 G D Ex db IIC T6...T3 Gc Ex tc IIIC T85...160 °C Dc	Ta= -40 °C to +70 °C	-40 °C to +50 °C (No cooling) To +125 °C (Air cooled) To +160 °C (Water cooled)





Note: The maximum temperature is limited by the function of the LWIR. The enclosure remains safe at a higher temperature as shown in the markings.

EXSH1 LWIR HOUSING

HAZARDOUS AREA ENCLOSURE FOR
LWIR-640 THERMAL IMAGER

SPECIFICATIONS

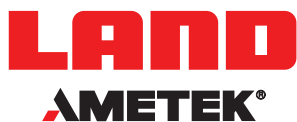
Compatibility:	LWIR-640 (all variants)
Dimensions:	Ø168 mm, 356 mm Length
Power Rating:	19 – 26.4 Vdc, 2.3 A Max
Weight:	20 kg maximum
Material:	316 / 316L stainless steel, germanium window
Certified Ambient Temperature:	ATEX, IECEx, UKEX (Safety) Zones 1, 21, 2, 22 -40 °C to +70 °C (-40 to 158 °F)
Functional Ambient Temperature:	Zone 1, 21 -40 °C to +50 °C (No cooling) To +70 °C (Water or Air cooling) Zone 2, 22 -40 °C to +50 °C (No cooling) To +125 °C (Air cooled) To +160 °C (Water cooled)
Environmental Rating:	IP66 / IP68 (2 m, 24 hr)
Compliance:	EN IEC 60079-0, IEC 60079-1, EN 60079-1, IEC 60079-31, EN 60079-31, IEC 61010-1, (EMC) EN 61326-1



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TEMPERATURE MEASUREMENT AND COMBUSTION & EMISSIONS
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