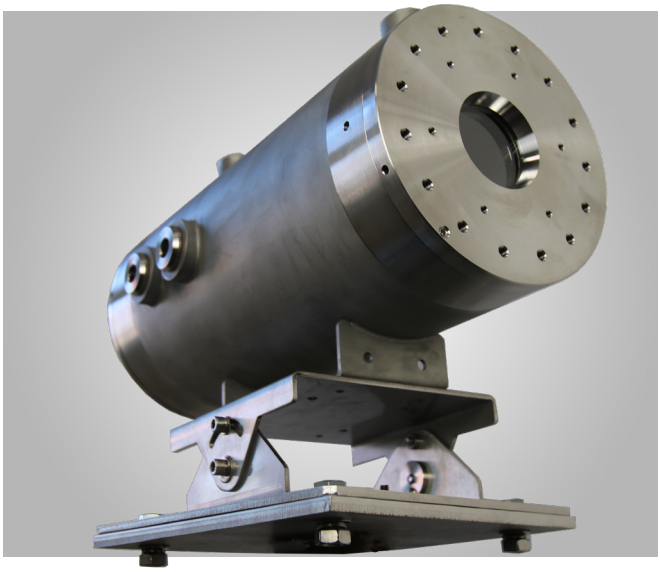
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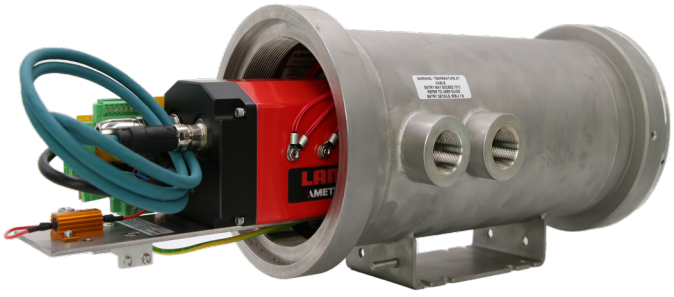
EXSH1 LWIR HOUSING

Hazardous area enclosure for LWIR-640 thermal imager

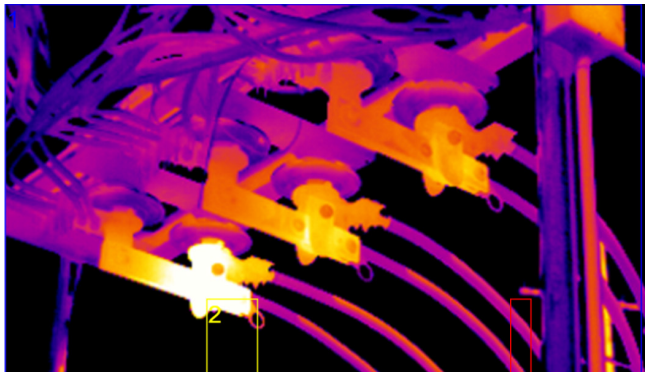
With increasing demand for products to work in hazardous conditions, our thermal imaging camera systems play an important role in modern industrial processing.

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.



TYPICAL APPLICATIONS
Flare stack monitoring, critical vessel monitoring, storage pile monitoring, hpi and chemical applications



FEATURES & BENEFITS

- **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.

See degrees differently.

SPECIFICATIONS

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

Certification	Zone	Marking	Certified Ambient Temperature	Functional Ambient Temperature
ATEX, IECEx Wand 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)
	8 to 14 µm	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.

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)
Storage Temperature:	-20 to +70 °C
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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MARCOMS_DOC-0099 EXSH 1 LWIR Instrument Housing Brochure 1 EN

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