TECHNICAL DATA

IRSX INFRARED CAMERA

The IRSX camera series introduces intelligent, self-contained thermal imaging systems tailored for industrial use. These all-in-one cameras feature a calibrated thermal sensor, a robust data processing unit, and multiple industrial interfaces in a compact IP67 housing, enabling direct communication with process control for seamless Industry 4.0 integration.

Highlights

Plug & Play
Easy Integration: The IRSX is designed for quick setup, enabling seamless integration into various systems without hassle.

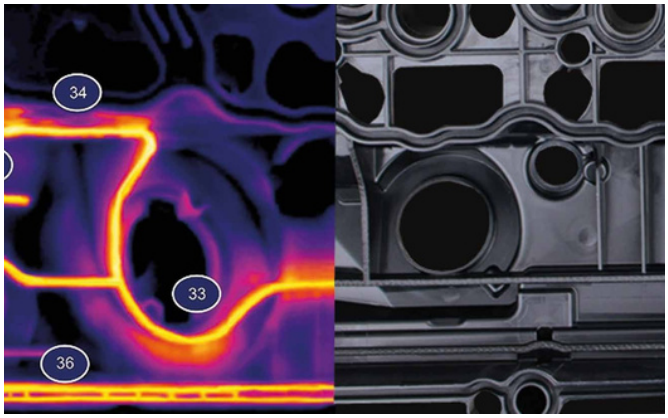
Measurement Accuracy
Unmatched Precision (+/- 0.3°C): With the advanced IRS Calilux temperature reference radiator, the IRSX delivers exceptional measurement accuracy of up to +/- 0.3°C, setting a new standard in thermal imaging.

Safety
Fail-Safe Operation: Engineered for reliable and safe performance in all conditions, ensuring continuous operation.

Communication
IoT Interfaces : Equipped with multiple IoT protocols like Modbus, the IRSX easily integrates into any automation environment, making it perfect for Industry 4.0 applications.

Web-Based Configuration
Intelligent Platform: Eliminates the need for external software or hardware, simplifying operation.

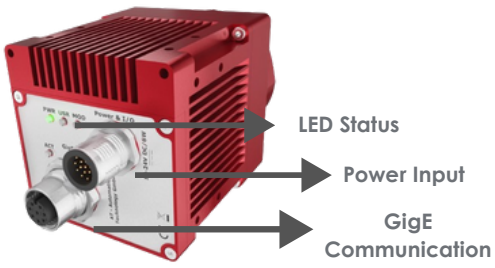
Industrial Excellence
High-performance IRSX series cameras feature versatile designs, automation and control capabilities, and durability for demanding industrial applications.



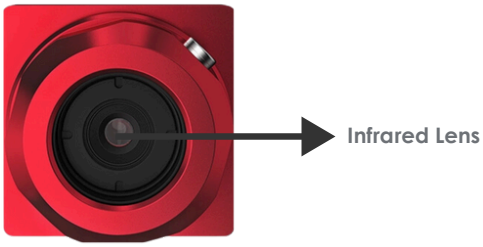
MEASUREMENT SPECIFICATION

Modell	IRSX-I336	IRSX-I640
Detector Type	Focal Plane Array (FPA), Uncooled Microbolometer	Focal Plane Array (FPA), Uncooled Microbolometer
Spectral Range	7.5 to 13 µm	7.5 to 13 µm
Pixel Size	17 x 17 µm	17 x 17 µm
Frame Rate	9 Hz	9 Hz
	30/60 Hz*	30 Hz*
Resolution	336 x 256 Pixel	640 x 512 Pixel
Measurement		
Radiometrically Calibrated Temperature Ranges	-10°C to 140°C	-10°C to 140°C
	-10°C to 550°C (optional up to -1200°C)	-10°C to 550°C (optional up to -1200°C)
Measurement Accuracy	±2°C (±3.6°F) or ±2% of reading (in the temperature range of: +10 to +100°C @ +10 to +35°C ambient temperature)	±2°C (±3.6°F) or ±2% of reading (in the temperature range of: +10 to +100°C @ +10 to +35°C ambient temperature)
Thermal Resolution NETD	< 30 mK @ F/1.0	< 30 mK @ F/1.0
Lenses with Air Purge (IP67)		
4 mm (f/1.4)	90.6° x 65.4°	
7.5 mm (f/1.4, f/1.2)	42° x 32°	90° x 69°
9 mm (f/1.4)	35° x 27°	69° x 56°
13 mm (f/1.25)	25° x 19°	45° x 37°
19 mm (f/1.25)	17° x 13°	32° x 26°
25 mm (f/1.4	13° x 10°	24° x 19°
35 mm (f/1.5)	9.3° x 7.1°	18° x 14°

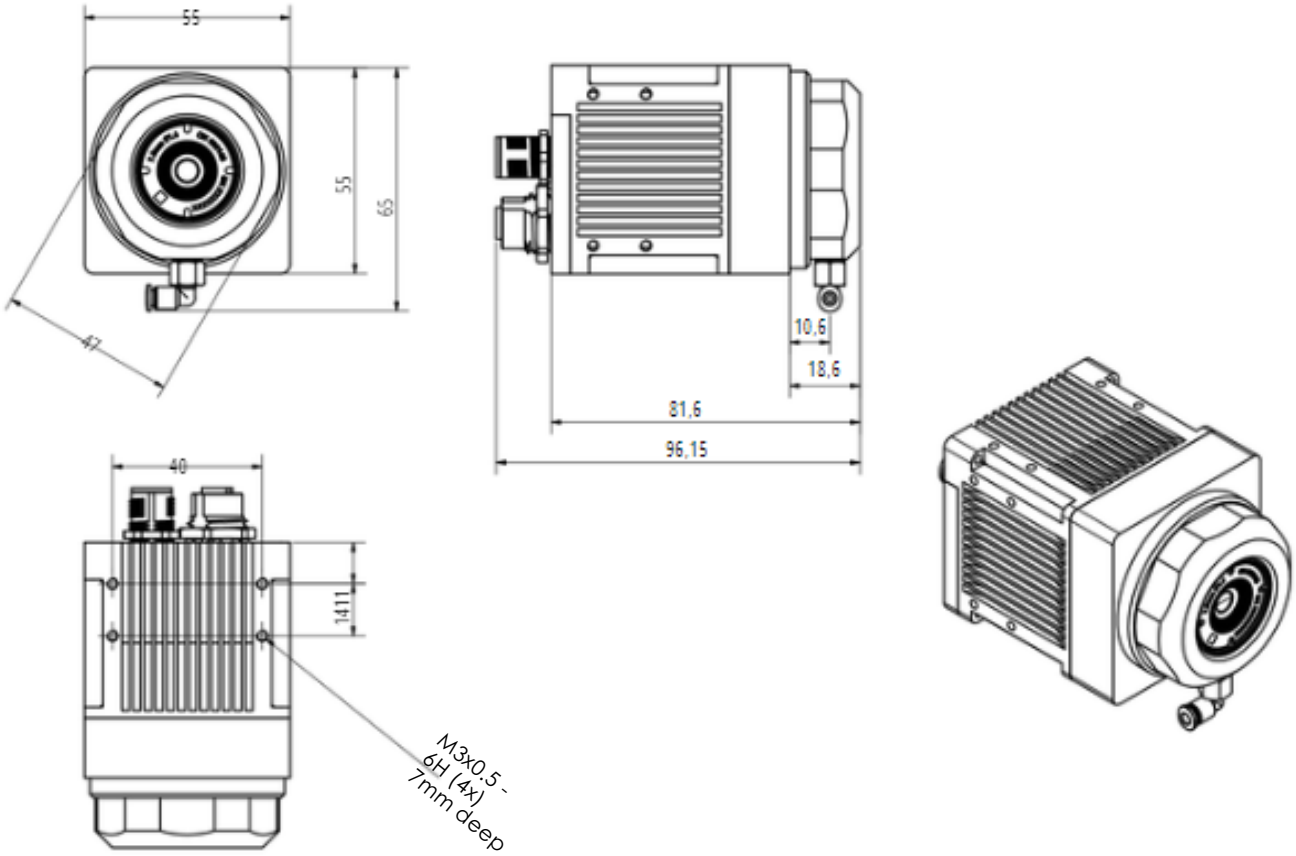
IRSX Rear View



IRSX Front View



IRSX Camera Dimensions



Accessories

I/O Panel

Compact I/O Panel for DIN Rail Mounting with Plug Terminal Signal and Power Connections.

IRSX GigE Cable

The tear-resistant GigE cable with IP67-rated M12 connectors ensures reliable Ethernet communication and comes in various lengths

IRSX Cable for Power and I/O

TThe IRSX cable connects the camera to the I/O panel, is tear-resistant, available in various lengths, and IP67-rated.

Sun Shield

For outdoor use, we offer an aluminum sun shield for IRSX cameras, available in white powder-coated, and securely attached to the camera housing for maximum stability.

90° Adapter Cable

Our 90° adapter cable offers a simple solution for tight spaces where standard M12 connectors may cause routing issues.

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