FLIR RSX-F
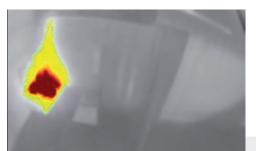
The FLIR RSX-F is an intelligent sensor which uses thermal and visual imaging for advanced fire detection, seat occupancy detection, and CCTV monitoring. The compact and discrete design allows for easy and flexible installation even when limited space is available.

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ADVANCED THERMAL FIRE DETECTION
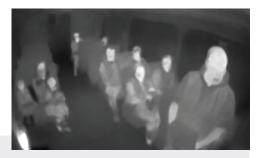Onboard thermal sensor and fire detection algorithms operate faster than conventional methods.

The FLIR RSX-F detects thermal energy emitted from all objects in its field of view and does not rely on smoke particles or ambient temperature change. Paired with dynamic fire detection algorithms, the RSX-F monitors the rate of temperature increase, size, and movement of a hot spot. The reliability of thermal imaging offers a very low false alarm rate.

SEAT OCCUPANCY MONITORING
Accurate passenger detection for public transportation.

Capable of measuring the seat occupancy in passenger trains, the RSX-F detects a unique thermal signature for each person. This information is used by rail operators to improve passenger flow on platforms and optimize onboard HVAC systems.

EASY INSTALLATION
Quickly add thermal imaging capability to compact train coaches.

The FLIR RSX-F sensor is designed for quick and easy installation on train coaches and in areas with limited space. A discrete design permits mounting on walls and ceilings, and tilts up to 45° for an optimal viewing angle. The RSX-F is fully compliant with the EN 50155 standard covering electronic equipment used on rolling stock for railway applications.

SPECIFICATIONS

Thermal Sensor & Optics

Detector Type	Focal Plane Array (FPA) Uncooled VOx microbolometer LWIR sensor
Spectral Range	8 to 14 µm
Resolution	160 × 120
Frame Rate	9 FPS
Compression	H.264, MPEG-4, MJPEG
Lens HFOV	95°

Visual Sensor & Optics

Resolution	1920 × 1080 HD color CMOS
Lens HFOV	95°
Compression	H.264, MPEG-4, MJPEG

Power & Communication

Power Consumption	3 W
Connectivity	Power line communication Network connectivity & outputs via TI BPL2
Input Voltage	12–42 V AC/DC via TI BPL2

Environmental

Shock and Vibration	EN50155 T2
Enclosure	EN45545 HL3
Safety	EN50122
EMC	EN 50121-3-2
IP Rating	IP65
Temperature Range	-44°C to 60°C

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Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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