



Key Features

- Combines 640 × 512 resolution high-performance thermal sensor with a 4K visible sensor for optimal performance in low light or challenging conditions
- Accurately detects and classifies humans and vehicles through FLIR Edge AI with Deep Neural Network (DNN) and Fusion AI Video analytics, minimizing false alarms and daily operating costs
- Clearly detect intruders in discrete poses—even when they're only in partial view of the camera or moving at high or low speeds
- Integrates FLIR Nexus® for pairing and hand-off supported FLIR fixed and PTZ cameras*, ensuring seamless object-tracking

Main Applications

- 24/7 high performance perimeter protection for challenging environments and lighting conditions
- Customizable solution to deploy intrusion detection policies on thermal and visible streams during day or night

SPECIFICATIONS

Thermal Sensor & Optics				
Array format (NTSC)	640 × 512			
Detector type	Long-life, uncooled VOx microbolometer			
Pixel pitch	17 μm			
Thermal frame rate	NTSC: 30 Hz or PAL: 25 Hz / 8.3 Hz			
Optical characteristics	Model	FOV	Focal length	f/#
	669	69° × 56°	9 mm	f/1.4
	644	44° × 36°	13 mm	f/1.0
	625	25° × 18°	25 mm	f/1.1
	617	17° × 14°	35 mm	f/1.1
	612	12° × 10°	50 mm	f/1.2
	610	10° × 8.2°	60 mm	f/1.2
	608	8.6° × 6.6°	75 mm	f/1.1
	606	6.2° × 4.9°	100 mm	f/1.6
Spectral range	7.5 μm to 13.5 μm			
Thermal sensitivity (NETD)	<25 mK @ 25°C (77°F) f/1.0			
Visible Light Camera				
Sensor type	4K 2160p (3840 × 2160)			
Optical characteristics	Model	Default FOV	Focal Length	f/#
	669	98° × 55°	3.6–10 mm	1.5–2.8
	644	63° × 35°	3.6–10 mm	1.5–2.8
	625	36° × 20°	9–22 mm	1.4–1.7
	617	24° × 14°	13–55 mm	1.6–2.2
	612	17° × 10°	13–55 mm	1.6–2.2
	610	14° × 8°	13–55 mm	1.6–2.2
	608	11° × 6°	13–55 mm	1.6–2.2
	606	8° x 4.5°	13–55 mm	1.6–2.2
Video				
Video type	IP and analog video			
Video analytics	Intrusion Person/vehicle, DNN classifier, Tripwire, Region/entrance, Motion detection, 2-Level masking, Object size-based nuisance alarm filters, Tampering			
Sensitivity	Color: 0.25 Lux (@ f1.6 AGC On, 30 fps) B/W: 0.10 Lux (@ f1.6 AGC On, 30 fps)			
Visible frame rate	30 Hz			
Video compression	Two independent channels of H.264/H.265 or MJPEG (except 4K) for visible and thermal			

Streaming resolution	Primary stream Thermal: VGA (640 × 512), QVGA (320 × 256) Visible: 4K (3840 × 2160), 1080p (1920 × 1080), 720p (1280 × 720) & VGA (640 × 480) Secondary stream Thermal: VGA (640 × 512), QVGA (320 × 256) Visible: 1080p (1920 × 1080), 720p (1280 × 720) & VGA (640 × 480)
Thermal image settings	Auto AGC, Dynamic Detail Enhancement (DDE), Brightness, Contrast
Thermal AGC Region of Interest (ROI)	Default, Presets and User definable to ensure optimal image quality on subjects of interest
Image uniformity optimization	Automatic Flat Field Correction (FFC) - Thermal and Temporal Triggers
System Integration	
Ethernet	100/1000 Mbps
Network APIs	Nexus SDK Nexus CGI ONVIF Profile S, G, T
Digital I/O	Input: two dry alarm contacts Output: two relay contacts 1 A max at 24 VAC/30 VDC Configurable between normally open and normally closed
Network	
Supported protocols	IPv4, HTTP, HTTPS, UPnP, DNS, NTP, RTSP, TCP, UDP, ICMP, IGMP, DHCP, ARP, IEEE 802.1x
General	
Input voltage	12 VDC (±10%) 24 VDC (±10%) 24 VAC (±10%) 802.3 bt
Power consumption	Nominal: 15 W Heaters enabled, 12 VDC: 48 W Heaters enabled, all other inputs: 70 W
Environmental	
IP rating (dust & water ingress)	IP66, IP67
Operating temp. range	-40°C to 70°C (-40°F to 158°F)
Storage temp. range	-55°C to 85°C (-67°F to 185°F)
Corrosion	MIL-STD 810G, 1000 hr salt spray
Humidity	0-95% relative

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.

*See FLIR PTZ pairing guide for more information



FLIR FH-Series ID

Multispectral Fixed Camera with FLIR Edge AI Video Analytics

www.flir.com/products/FH-Series-ID

SPECIFICATIONS, CONT.

Shock	IEC 60068-2-27
Vibe	IEC 60068-2-64
Vandalism	IK10 (except Windows)
Surge immunity on AC power lines	EN 50130-4
Surge immunity on signal lines	EN 50103-4
Surge/lightning protection	TVS 6000 V lightning protection, surge protection, voltage transient protection
General	
Dimensions with sun-shield (W × H × D)	233 × 124 × 313 mm (9.2 × 4.9 × 12.3 in)
Unit weight	5.1 kg (11.3 lbs)
Compliance & Certifications	
FCC Part 15 (Subpart B, class A) CE Marked RoHS IP66 WEEE IEC 62368 ONVIF Profile S, G, T	
Cybersecurity	
IEEE 802.1x TLS/HTTPS User authentication Access control via firewall User credentials with policy enforcement Digest authentication	

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Model	Description
427-0102-31-00	FLIR FH-669 ID, 9 mm
427-0102-32-00	FLIR FH-644 ID, 13 mm
427-0102-33-00	FLIR FH-625 ID, 25 mm
427-0102-34-00	FLIR FH-617 ID, 35 mm
427-0102-35-00	FLIR FH-612 ID, 50 mm
427-0102-36-00	FLIR FH-610 ID, 60 mm
427-0102-37-00	FLIR FH-608 ID, 75 mm
427-0102-38-00	FLIR FH-606 ID, 100 mm

For more information
about FLIR FH-Series ID,
please scan or visit:



For technical or sales support, please visit:
www.flir.com/about/general-inquiries

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