\$FLIR



THERMAL IMAGING TEMPERATURE SENSOR



The FLIR Ax5-Series of thermal imaging temperature sensors offers comprehensive visual temperature monitoring for process control and quality assurance applications as well as condition monitoring and fire prevention. The A35 and A65 integrate seamlessly into existing systems and are the only thermal imaging temperature sensors on the market to provide temperature linear output through GenlCam[™] compliant software.

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VISUALIZE HEAT

These non-contact temperature sensors are enhanced with thermal imaging

- Detect temperature differences as small as 50 mK
- Choose the right field of view for your measurement area, from wide (90°) to narrow (6.2°)
- Measures accurately in conditions up to 140°F (60°C)

COMMUNICATE DATA SEAMLESSLY

Stream temperature linear output through ${\sf GenlCam}^{\rm I\!M}$ compliant software

- Integrate easily with Cognex, National Instruments, and other top machine vision systems
- Stream thermal images at up to 60 Hz directly to your system, for instant data analysis
- Synchronize cameras for stereoscopic applications



DESIGNED TO FIT YOUR APPLICATIONS

Get more out of your data with advanced analysis tools

- Compact size makes for easy installation in electrical cabinets and other small spaces.
- Offering the stability of a GigE Vision lockable connector, and the flexibility of Power over Ethernet (PoE)
- Ideal for any environment, the cameras' robust design can withstand harsh conditions

SPECIFICATIONS

Image and Optical Data	A35	A65	Environmental Data			
IR Resolution	320 x 256	640 x 512	Operating Temperature Range	–15°C to 60°C (5°F to 140°F)		
Thermal Sensitivity/NETD	<0.05°C @ 30°C (86°F) / 50 mK		Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)		
Image Frequency	60 Hz	30 Hz	Humidity (Operating and	IEC 60068-2-30/24 h 95% relative humidity 25°C to 40°C		
Focus	Fixed		Storage)	(77°F to 104°F)		
Detector Data				EN 61000-6-2 (Immunity), EN 61000-6-3 (Emission), FCC 47 CFR Part		
Detector Type	Uncooled VOx microbolometer			15 Class B (Emission)		
Spectral Range	7.5–13 μm		Encapsulation/Bump/Vibration	IP 40 (IEC 60529), 25 g (IEC 60068-2-27), 2 g (IEC60068-2-6), MIL- STD810G		
Detector Pitch	17 μm	17 μm	Physical Data			
Detector Time Constant	12 ms (typical)		Camera Size (L x W x H)	7.5. 0. and 12 mm longoe: 10/11	/0.6 v /6.6 mm // 1 v 1.0 v 1.9 ir	
Measurement			Camera Size (L X W X H)	7.5, 9, and 13 mm lenses: 104.1 × 49.6 × 46.6 mm (4.1 × 1.9 × 1.8 in 25 mm lens: 107.8 × 49.6 × 46.6 mm (4.2 × 1.9 × 1.8 in)		
Object Temperature Range	-25°C to 100°C (-13°F to 212°F) -40°C to 550°C (-40°F to 1022°F)			A35 w/ 50 mm lens: 141.1 × 58.4 × 58.4 mm	A65 w/ 50 mm lens: 144.1 × 58.4 × 58.4 mm	
Accuracy	±5°C (±9°F) or 5% of reading			$(5.7 \times 2.3 \times 2.3 \text{ in})$	$(5.7 \times 2.3 \times 2.3 \text{ in})$	
Ethernet						
Ethernet Type	Gigabit Ethernet, control and im	age			A65 w/ 100 mm lens: 196.4 × 82.0 × 82.0 mm	
Ethernet Standard, Connector	IEEE 802.3, RJ-45				$(7.7 \times 3.2 \times 3.2 \text{ in})$	
Ethernet Communication	GigE Vision ver. 1.2, Client API G		Tripod Mounting	UNC ¼"-20 (three sides)		
Ethernet Image Streaming	8-bit monochrome @ 60 Hz 8-bit monochrome @ 30 Hz		Base Mounting	4 × M3 thread mounting holes (bottom)		
	Signal linear/DDE; Automatic/N		Housing Material	Magnesium and aluminum		
Bit Rate	14-bit 320 x 256 @ 60 Hz	14-bit 640 × 512 pixels @ 30 Hz	5	Inagriesium and aluminum		
	Signal linear/DDE; Temperature linear GigE Vision & GeniCam compatible		Packaging			
			Contents	Thermal imaging camera with lens, base support, printed documentation (some models include focus adjustment tool)		
Ethernet Power Ethernet Protocols	Power over Ethernet, PoE IEEE 802.3af class 0 power TCP, UDP, ICMP, IGMP, DHCP, GigEVision					
Digital Input/Output	TCP, UDP, ICIVIP, IGIVIP, DHCP, GI	JE VISION	Part Number	Camera		
Digital Input	1× opto-isolated, "0" <1.2 VDC, "1" = 2-25 VDC		73309-0102	FLIR A35 f=9 mm with SC kit		
Digital Output	1× opto-isolated, 2 –40 VDC, max. 185 mA		83225-0101	FLIR A35 FOV 13 (60 Hz)		
Digital I/O, Isolation Voltage	500 VRMS		83213-0102	FLIR A35 FOV 25 (60 Hz)		
Digital I/O, Supply Voltage	2 – 40 VDC, max 200 mA		83207-0102	FLIR A35 FOV 45 (60 Hz)		
Digital I/O, Connector Type	12-pole M12 connector (shared with digital synchronization and		83250-0101	FLIR A35 FOV 6.5 (60 Hz)		
	external power)		83209-0102	FLIR A35 FOV 69 (30 Hz)		
Synchronization In	Frame Synch In to control camera 1x, non-isolated		73413-0102	FLIR A65 f=13 mm with SC kit (30 Hz)		
Synchronization In Type	LVC Buffer @ 3.3 V, "0" <0.8 V, "1" >2.0 V		73513-0102	FLIR A65 f=13 mm with SC kit (7.5 Hz)		
Synchronization Out	Frame Synch Out to control another FLIR Ax5 unit 1x, non-isolated		75050-0101	FLIR A65 FOV 12.4 (30 Hz)		
Synchronization Out Type	LVC Buffer @ 3.3 V,"0" = 24 MA max,"1" = -24 mA max					
Digital Synchronization Connector Type	2-pole M12 connector (shared with Digital I/O and External power)		75025-0101 75013-0101	FLIR A65 FOV 25 (30 Hz) FLIR A65 FOV 45 (30 Hz)		
Power System	A35 A65		75010-0101	FLIR A65 FOV 6.2 (30 Hz)		
External Power Operation	12/24 VDC, < 3.5 W nominal < 6.0 W absolute max					
External Power Connector Type	12-pole M12 connector (shared with Digital I/O and Digital Synchronization)		75007-0101	FLIR A65 FOV 90 (30 Hz)		
Voltage	Allowed range 10 – 30 VDC					

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