

FLIR A615 25° AISMET 165-50

P/N: 55001-0102



Imaging and optical data	
Field of view (FOV) / Minimum focus distance	25° x 18.8° / 0.4 m (1.31 ft.)
Focal length	24.5 mm (0.96 in.)
Spatial resolution (IFOV)	0.69 mrad
Lens identification	Automatic
F-number	1.0
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Image frequency	50 Hz (100/200 Hz with windowing)
Focus	Automatic or manual (built in motor)
Detector data	
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 7.5–13 µm
IR resolution	640 x 480 pixels
Detector pitch	17 µm
Detector time constant	Typical 8 ms
Measurement	
Object temperature range	-20 to +150°C (-4 to +302°F) 0 to +650°C (+32 to +1202°F) 300 to +2000°C (+572 to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Measurement analysis	
Atmospheric transmission correction	Automatic, based on inputs for distance, atmospheric temperature and relative humidity
Optics transmission correction	Automatic, based on signals from internal sensors
Emissivity correction	Variable from 0.01 to 1.0
Reflected apparent temperature correction	Automatic, based on input of reflected temperature
External optics/windows correction	Automatic, based on input of optics/window transmission and temperature
Measurement corrections	Global object parameters
USB	
USB	• Control and image
USB, standard	USB 2 HS
USB, connector type	• USB Mini-B
USB, communication	TCP/IP socket-based FLIR proprietary
USB, image streaming	16-bit 640 x 480 pixels @ 25 Hz 16-bit 640 x 240 pixels @ 50 Hz 16-bit 640 x 120 pixels @ 100 Hz - Signal linear - Temperature linear - Radiometric
USB, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
Ethernet	
Ethernet	Control and image
Ethernet, type	Gigabit Ethernet
Ethernet, standard	IEEE 802.3
Ethernet, connector type	RJ-45
Ethernet, communication	TCP/IP socket-based FLIR proprietary and GenICam protocol

Ethernet, image streaming	16-bit 640 x 480 pixels @ 50 Hz 16-bit 640 x 240 pixels @ 100 Hz 16-bit 640 x 120 pixels @ 200 Hz - Signal linear - Temperature linear - Radiometric GenIE Vision and GenICam compatible
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Ethernet, protocols	TCP, UDP, SNMP, RTSP, RTP, HTTP, ICMP, IGMP, ftp, SMTP, SMB (CIFS), DHCP, MDNS (Bonjour), uPnP
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Digital input/output

Digital input, purpose	Image tag (start, stop, general), Image flow ctrl. (Stream on/off), Input ext. device (programmatically read)
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Digital input	2 opto-isolated, 10–30 VDC
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Digital output, purpose	Output to ext. device (programmatically set)
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Digital output	2 opto-isolated, 10–30 VDC, max 100 mA
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Digital I/O, supply voltage	500 VRMS
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Digital I/O, connector type	6-pole jackable screw terminal
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Power system

External power operation	12/24 VDC, 24 W absolute max
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External power, connector type	2-pole jackable screw terminal
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Voltage	Allowed range 10–30 VDC
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Environmental data

Operating temperature range	-15°C to +50°C (+5°F to +122°F)
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Storage temperature range	-40°C to +70°C (-40°F to +158°F)
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Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F)
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EMC	<ul style="list-style-type: none"> • EN 61000-6-2:2001 (Immunity) • EN 61000-6-3:2001 (Emission) • FCC 47 CFR Part 15 Class B (Emission)
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Encapsulation	IP 40 (IEC 60529)
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Bump	25 g (IEC 60068-2-29)
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Vibration	2 g (IEC 60068-2-6)
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Physical data

Weight	0.7 kg (1.54 lb.)
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Camera size (L x W x H)	216 x 73 x 75 mm (8.5 x 2.9 x 3.0 in.)
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Tripod mounting	UNC 1/4"-20 (on three sides)
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Base mounting	2 x M4 thread mounting holes (on three sides)
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Housing material	Aluminium
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Scope of delivery

- Hard transport case or cardboard box
- Infrared camera with lens
- Calibration certificate
- Ethernet™ cable
- Mains cable
- Power cable, pig-tailed
- Power supply
- Printed Getting Started Guide
- Printed Important Information Guide
- USB cable
- User documentation CD-ROM
- Utility CD-ROM
- Warranty extension card or Registration card