\$FLIR



LWIR SCIENCE-GRADE CAMERA

FLIR A655sc[™]

With its uncooled, high-resolution detector and cutting-edge functionality, the FLIR A655sc helps researchers and scientists accurately quantify thermal patterns, leakage, dissipation, and other heat related factors in equipment, products, and processes in real-time.

www.flir.com/science

SUPERIOR IMAGE QUALITY & SENSITIVITY

Record crisp thermal images, even at high speeds

- Produce clearly detailed 640 x 480 thermal images using the maintenance free vanadium oxide (VoX) microbolometer
- Detect temperature differences as small as 50 mK
- Record 14-bit, full-frame data at up to 50 Hz, or 200 Hz with windowing

EASY, FLEXIBLE DATA COLLECTION

True plug and play connectivity simplifies data monitoring and sharing

- Fast image transfer over GigE Vision, using low-cost standard cables up to 100 meters
- Integrate with FLIR ResearchIR or third-party software seamlessly over Gigabit Ethernet connections
- Control the camera with GenlCam protocol support

ADVANCED SOFTWARE COMPATIBILITY

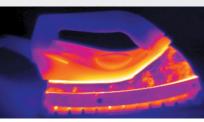
Get more out of your data with advanced analysis tools

- Control and capture data directly intoFLIR ResearchIR Max or MathWorks[®] MATLAB
- Stream data directly to a PC running software for live viewing, recording, analysis, and sharing.
- Integrate with your proprietary software through optional Software Developers Kit (SDK)



Motorcycle break testing.

Find Quality Products Online at:



Thermal quality control on domestic appliances.

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IMAGING SPECIFICATIONS

System Overview	FLIR A655sc	General	
Detector Type	Uncooled Microbolometer	Operating	-15°C to 50°C (572°F to 3,632°F)
Spectral Range	7.5 – 14.0 μm	Temperature Range	
Resolution	640 x 480	Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)
Detector Pitch	17 μm	Encapsulation	IP 30 (IEC 60529)
NETD	<30 mK	Bump / Vibration	25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6)
Imaging		Power	12/24 VDC, 24 W Absolute Max.
Time Constant	<8 ms	Weight	0.9 kg (1.98 lb)
Frame Rate (Full Window)	50 Hz	Size	216 × 73 × 75 mm (8.5 × 2.9 × 3.0 in)
Subwindow mode	User-Selected, 640 x 240 or 640 x 120 (Gigabit Ethernet Only)	Mounting	¼"-20 (on three sides), 2 x M4 (on three sides)
Maximum Frame Rate (@ Min. Window)	200 Hz (640 × 120)		
Dynamic Range	16-bit	Power Connector: 2-pole jackable screw terminal Gigabit Ethernet Port: RJ-45 connector, Allowed Voltage Range: 10-30 VDC 1000 MB	
Digital Data Streaming	Gigabit Ethernet (50/100/200 Hz) USB(25 Hz)		
Command and Control	Gigabit Ethernet, USB		
Measurement			
Standard Temperature Range	-40°C to 150°C (-40°F to 302°F) 100°C to 650°C (212°F to 1,202°F)	12-24 VD -+ GigE USB mini-B connector	
Optional Temperature Range	Up to 2,000°C (3,632°F)		
Accuracy	$\pm 2^{\circ}$ C or $\pm 2\%$ of Reading		
Optics			
Camera f/#	f/1.0		
Available Lenses	6.5 mm (80°), 13.1 mm (45°), 24.6 mm (25°), 41.3 mm (15°), 88.9 mm (7°)	Hardware reset	Power indicator
Focus	Automatic or Manual (Motorized)		0 0
Close-up / Microscopes	Close-up 25 µm, 50 µm, 100 µm		
Image Presentation			
Digital Data	Via PC Using ResearchIR Software		Digital I/O Connector: 6-pole screw terminal Digital Out: 2 outputs, opto-isolated 10-30 V supply, max 100 mA Digital In: 2 inputs, opto-isolated 10-30 V



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17-1683-INS-A655sc Datasheet



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