\$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

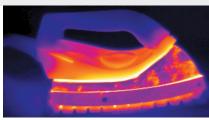
ADVANCED SOFTWARE COMPATIBILITY

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.



Thermal quality control on domestic appliances.

IMAGING SPECIFICATIONS

System Overview	FLIR A655sc	General	
Detector Type	Uncooled Microbolometer	Operating Temperature Range	-15°C to 50°C (572°F to 3,632°F)
Spectral Range	7.5 – 14.0 μm		
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)		
Optional Temperature Range	Up to 2,000°C (3,632°F)		
Accuracy	±2°C or ±2% of Reading		
Optics			USB mini-B connector
Camera f/#	f/1.0	Hardware reset	
Available Lenses	$6.5\text{mm}(80^\circ),13.1\text{mm}(45^\circ),24.6\text{mm}(25^\circ),41.3\text{mm}(15^\circ),88.9\text{mm}(7^\circ)$		
Focus	Automatic or Manual (Motorized)		
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	

📣 MathWorks

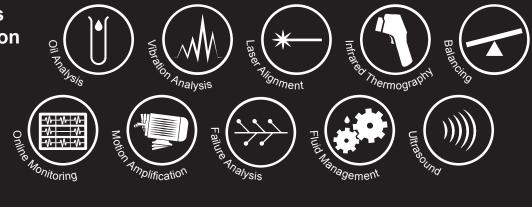
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Yellotec stands proud in the belief of its founder that all failures are preventable.

We are a solution oriented company focused on Machine Health and Reliability through the application of advanced technologies.







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