



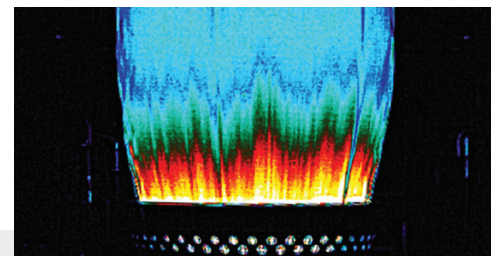
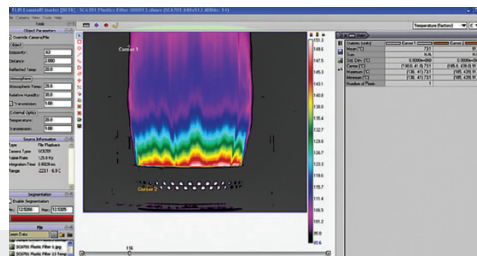
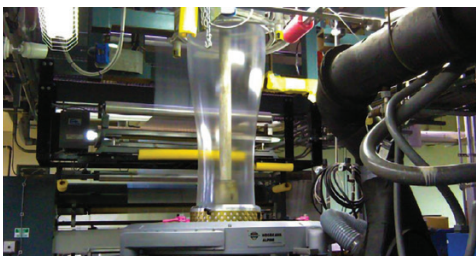
INFRARED CAMERA FOR MEASURING THE TEMPERATURE OF PLASTICS

FLIR A6700 Plastics Camera



The FLIR A6700 Plastics Camera allows you to accurately measure the surface temperature of plastics and generate thermal characteristics imagery of plastics for R&D or manufacturing process improvements. Producing crisp 640 x 512 resolution thermal images, the FLIR A6700 Plastics Camera captures minute image details. High-speed image acquisition up to 480 frames per second and synchronization with other instruments and events records rapid manufacturing processes.

www.flir.com/science



CUSTOMIZABLE TO YOUR NEEDS

Tailor frame rates, windowing-size, and measurement ranges for optimal data collection

- Features a 14-bit digital data stream at 60 Hz full frame resolution
- Supports image rates up to 480 frames per second in windowing mode
- Four active preset operating modes provide adjustable temperature measurement ranges, embedded non-uniformity correction, and bad pixel replacement

ENSURES RELEVANT DATA COLLECTION

Sync with your target to output high accuracy temperature measurements

- On-camera thermographic calibration for measuring the temperature of the surface of plastics
- Image synchronization through external BNC input, or a software trigger; clock out single images, or multiple images
- Simultaneous analog and digital outputs including composite NTSC or PAL (BNC), and industry-standard digital Gigabit Ethernet

EASY TO USE, EASY TO ANALYZE

Compact, easy to set up, and ready for live viewing or post-analysis

- Easy mounting in tight locations or applications that require light payloads
- Works seamlessly with FLIR ResearchIR Max software for intuitive viewing, recording, and processing of thermal data
- Control the A6700 Plastics Camera and capture data directly into MathWorks® MATLAB software for custom image analysis and enhancement

SPECIFICATIONS

Detector	A6700 Plastics Camera
Detector Type	Indium antimonide (InSb)
Spectral Range	Custom Plastics Filter
Resolution	640 × 512
Detector Pitch	15 µm
NETD	<20 mK (18 mk typical)
Well Capacity	7.2 M electrons
Operability	>99.8% (>99.95% typical)
Sensor Cooling	Closed Cycle Rotary

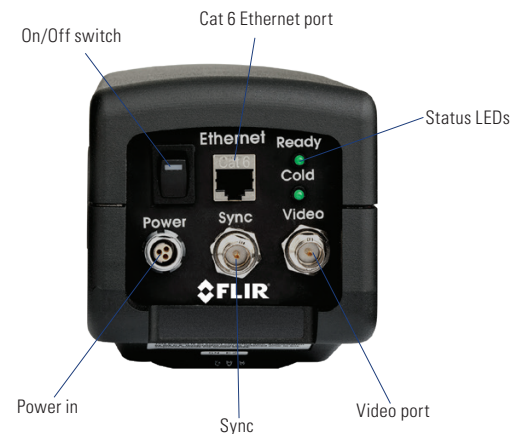
Electronics / Imaging	
Readout	Snapshot (FLIR 4 Channel)
Readout Modes	Asynchronous Integrate While Read; Asynchronous Integrate Then Read
Synchronization Modes	Sync In
Integration Time	480 ns to 687 sec
Frame Rate (Full Window)	Up to 60 Hz
Subwindow Mode	1/2 or 1/4 window
Max Frame Rate (@ Min Window)	480 Hz @ 1/4 window
Dynamic Range	14-bit
Digital Data Streaming	Gigabit Ethernet
Analog Video	NTSC, PAL
Command & Control	Gigabit Ethernet

Measurement	
Standard Temperature Range	25°C to 650°C (77°F to 1,112°F)
Accuracy	± 2°C or ±2% of reading

Optics	
Camera f/#	2.5
Available Lenses	13 mm, 25 mm, 50 mm, 100 mm
Focus	Manual
Filtering	Custom spectral filter for plastics inspection

Image Presentation	
Analog Palettes	Grayscale + Color
AGC	Manual, Linear, Plateau Equalization, DDE
Zoom	Video zoom is auto-selected: full resolution = 1x; 1/4 resolution = 2x

General	
Operating Temperature Range	-40°C to 50°C (-40°F to 122°F)
Altitude	0 to 10,000 ft operational; 0 to 70,000 ft non-operational
Shock / Vibration	40 g, 11 msec ½ sine pulse / 4.3 g RMS random vibration, all 3 axes
Power	24 VDC (< 50 W steady state)
Weight w/o Lens	5 lbs
Size (L × W × H) w/o Lens	216 × 102 × 109 mm (8.5 × 4.0 × 4.3 in)
Mounting	2 × ¼"-20, 1 × 3/8"-16, 4 × 10/24



Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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NASDAQ: FLIR

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18-2816-INS-A6700 Plastics Camera



The World's Sixth Sense®