

FLIR Compact A-Series Cameras

Real-Time Thermal Imaging for Machine Vision

This new compact, affordable infrared camera is designed specifically for Machine Vision. Its small form factor is ideal for tight spaces with no loss of performance. The FLIR Compact A-Series offers multiple configurations and is the perfect solution for those applications that require high performance at a low cost.

Uncooled Microbolometer Detector – Maintenance-free and provides excellent longwave imaging performance.

Compact & Synchronization Capable – Measuring only 4.2 x 1.6 x 1.7 in., multiple FLIR Compact A-Series cameras can be efficiently integrated into every production line and synchronized to increase coverage or for stereoscopic applications.

Pixel Resolution and Optics – Available in 80 x 64, 160 x 128, 320 x 256, or 640 x 512 resolutions with varying fields of view options.

Plug-and-Play Compatibility – The ideal system integration solution with universal plug and play compatibility through GigE Vision and GenICam protocols. The camera can be fully configured from a PC, allowing camera control and image capture in real time.

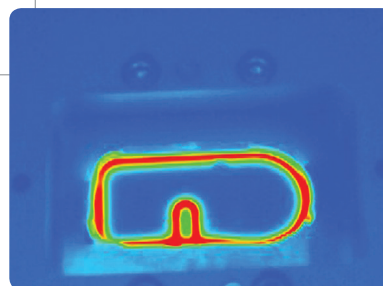
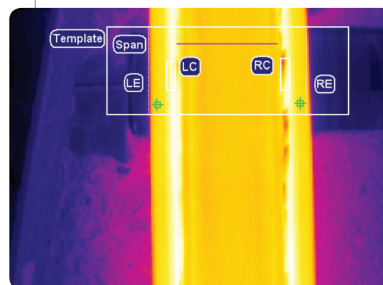
Versatility – Compact, rugged, and lightweight with straightforward mounting for quick installation and easy movement to alternate locations.

Fast Data Transfer – High 60 Hz frame rate streams 8- and 14-bit 336 x 256 thermal images.

High Sensitivity – <50 mK thermal sensitivity captures the finest image details and temperature difference information.



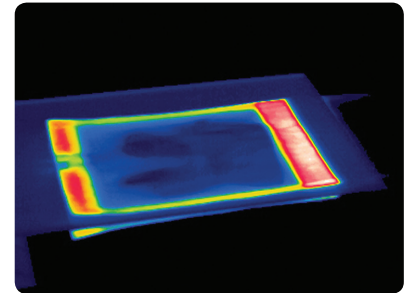
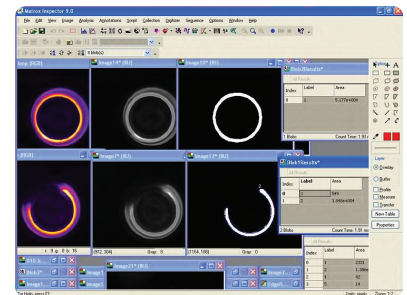
Actual Size



GigE[™]
VISION
GEN*i*CAM

Imaging Specifications

Detector	A5	A15	A35	A65
Detector Type	Uncooled VOx microbolometer			
Spectral Range	7.5 μm to 13.0 μm			
Resolution	80 x 64	160 x 128	320 x 256	640 x 512
Detector Pitch	50 μm	50 μm	25 μm	17 μm
NETD	<50 mK			
Imaging				
Time Constant	Typical 12 ms			
Frame Rate (Full Window)	60 Hz	60 Hz	60 Hz	9 Hz
Dynamic Range	14-bit			
Digital Data Streaming	Gigabit Ethernet			
Command and Control	Gigabit Ethernet			
Measurement				
Standard Temperature Range	-40 to +160°C (-40 to 320°F)			
Optional Temperature Range	-40 to +550°C (-40 to +1022°F)			
Accuracy	$\pm 5^\circ\text{C}$ ($\pm 9^\circ\text{F}$) or $\pm 5\%$ of reading			
Optics				
Available Lenses	5 mm, 9 mm	9 mm, 19 mm	9 mm, 19 mm	13 mm, 25 mm
Focus	Manual			
Image Presentation				
Digital Data	Via PC Using any GenICam-compliant software			
Ethernet				
Communication	GigE Vision and GenICam compatible			
Image Streaming	8-bit monochrome @ 60 Hz 14-bit 320 x 256 pixels @ 60 Hz			
Power	PoE IEEE 802.3af class 0 Power			
Protocols	TCP, UDP, ICMP, IGMP, DHCP, GigE Vision			
General				
Operating Temperature Range	-15°C to 50°C (5°F to 122°F)			
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)			
Encapsulation	IP 40 (IEC 60527)			
Bump / Vibration	5 g (IEC 60068-2-27) / 2 g (IEC 60068-2-6)			
Power	12/24 VDC, < 2.5 W absolute max, PoE compatible			
Weight	0.2 kg (0.44 lb)			
Size (L x W x H) w/o Lens	106 x 40 x 43 mm (4.2 x 1.6 x 1.7 in.)			
Base Mounting	4 x M3 thread mounting holes (on bottom), optional 1/4" - 20 mount available			



For more detailed specifications, please visit www.FLIR.com/Ax5



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