FLIR A5sc, A15sc, A35sc Cameras

Real-Time Thermal Imaging and Analysis for Machine Vision and Test & Measurement

The A5sc, A15sc, and A35sc are affordable Infrared Camera Kits designed specifically for thermal bench top testing applications. The compact packaging makes the AX5sc a perfect fit for the bench top and allows for deployment in locations where size constraints are critical. They are available in a variety of pixel resolutions and can meet the spatial resolution requirements of most applications.

Eliminate the Guesswork – *See heat patterns with the thermal imagery and extract temperature values from live or recorded imagery*

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

Pixel Resolution and Optics – *Available in 80 × 64, 160 × 128, 320 × 256 pixel formats to achieve numerous fields of view.*

Versatility – *Compact, rugged, and lightweight with straightforward mounting that permits quick installation and easy movement for new application requirements.*

Plug-and-Play Compatibility – *The ideal system integration solution with universal plug and play through GigE Vision and GEN<i>CAM protocols, these cameras can be fully configured from a PC, allowing camera control and image capture in real time*

Fast Data Transfer – *Its RJ-45 gigabit Ethernet connection supplies 14-bit images at frame rates as high as 60 Hz.*

Image and Data Acquisition – *Record thermal snapshots and movies with FLIR Tools + recording and analysis software.*

Kit Components – *includes everything needed for quick "out of box" deployment.*

$\diamondsuit$ FLIR®
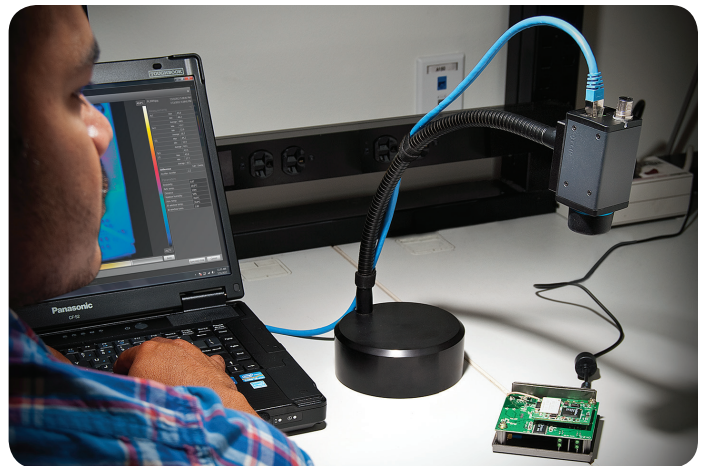
Imaging Specifications

Detector	A5sc	A15sc	A35sc
Detector Type	Uncooled VOx microbolometer		
Spectral Range	7.5 µm to 13.0 µm		
Resolution	80 × 64	160 × 128	320 × 256
Detector Pitch	50 µm	25 µm	25 µm
NETD	<50 mK		
Imaging			
Time Constant	Typical 12 ms		
Frame Rate (Full Window)	60 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) -40 to +550°C (-40 to +1022°F).		
Accuracy	±5°C (±9°F) or ±5% of reading		
Optics			
Available Lenses	5 mm	9 mm	9 mm
Focus	Fixed		
Image Presentation			
Digital Data	Via PC Using FLIR R&D Software or GigE Vision Protocols		
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, TBA W absolute max		
Weight	0.2 kg (0.44 lb)		
Size (L × W × H) w/o Lens	106 × 40 × 43 mm (4.2 × 1.6 × 1.7 in.)		
Tripod Mounting	UNC 1/4'-20 via Base Support Accessory		
Base Mounting	4 × M3 thread mounting holes (on bottom)		

A5sc, A15sc, A35sc Kits include:
Hard transport case, Infrared camera with lens, focus adjustment tool, base support, gooseneck table stand, PoE Injector (power over Ethernet), Ethernet CAT-6 cables, 2m/6.6 ft (2 ea.), FLIR Tools+Analysis and Recording Software, getting started guide, service & training brochure

GiGE VISION™

GEN<i>CAM

FLIR®