

FG-P5G-161S7C-C, FLIR Forge 5GigE Camera

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Teledyne FLIR IIS Forge 5GigE Camera - Front



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Note: This item requires accessories for use | [Learn More](#)

Spectrum: Color

General

Type: Color Camera

Model Number: FG-P5G-161S7C-C

Manufacturer: FLIR

Camera Series: Forge

Physical & Mechanical Properties

Dimensions (mm): 29 x 44 x 74 (excludes connectors and lens mount)

Weight (g): 132

Housing: Full

Sensor

Image Buffer: 500MB

Sensor Format: 1.1"

Resolution (Megapixels): 16.10

Frame Rate (fps): 38.00

Pixels (H x V): 5,320 x 3,032

Pixel Size, H x V (µm): 2.74 x 2.74

Sensing Area, H x V (mm): 14.58 x 8.31

Imaging Sensor: Sony IMX542

Type of Sensor: Progressive Scan CMOS

Shutter Type: Global

Pixel Depth: 8/10/12 Bit

Exposure Time: 10µs - 30s

Dynamic Range (dB):	70.00	Machine Vision Standard:	GigE Vision v2.0
Electrical			
Power Consumption (W):	8.5		
Hardware & Interface Connectivity			
Interface:	5GigE (PoE)	Connector:	5GigE, RJ45 with Screw Locks
Power Supply:	Power Supply Required and Sold Separately: USA: #88-063 Europe: #88-063 Japan: #88-063 Korea: Not Available China: #88-063	GPIOs:	1 opto-isolated input, 1 opto-isolated output, 1 non-isolated bi-directional, 1 non-isolated input
Synchronization:	Hardware Trigger (GPIO) or Software Trigger	Interface Port Orientation:	Back Panel
GPIO Connector Type:	6-pin Hirose (HR10)		
Threading & Mounting			
Mount:	C-Mount		
Environmental & Durability Factors			
Operating Temperature (°C):	0 to +65	Storage Temperature (°C):	-30 to +60
Regulatory Compliance			
Certificate of Conformance:	View		

Product Details

- Constructed on an All-New Platform
- Offers Burst Mode to Capture Images at Speeds up to 10Gb/s into Memory
- Designed to Simplify OEM Integration with Features Including PoE, Strong Thermal Management and Opto-Isolated Triggering



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Teledyne FLIR IIS Forge® 5GigE: The Machine Vision Camera That Fits Anywhere

A 5 Megapixel camera delivering high resolution images at 5GigE speed

The **FLIR IIS Forge® 5GigE** is designed for industrial imaging applications that require high-speed data capture and transfer such as Food, Beverage, Battery, Electronics inspection, and more. Based on the Sony Pregius S Backside Illuminated (BSI) sensors this camera can detect microscopic scratches on various materials due to its higher sensitivity in the UV spectrum. These models support advanced features such as:

- Burst Mode: Achieves 59% faster capture rate at 207 FPS when compared to other 5GigE cameras on the market.
- Lens Shading Correction: Improves entire image uniformity with lenses at a higher F-Stop (removing vignetting).

The **FLIR/IIS Forge® 5GigE** features an all-new platform, it is designed to offer the richest combination of on-camera pre-processing features, leverage the industry's most advanced sensors, and support the Trigger-to-Image Reliability (T2IR) framework contributing to robust system designs. Designed to simplify OEM integration with features including PoE, strong thermal management and opto-isolated triggering for streamlined peripherals & easier camera control. Forge® supports both Teledyne Spinnaker and Sapura SDKs and GigE Vision compliant software packages.

Features

- Data interface options: 5 GigE, 2.5 GigE, 1 GigE

- 5 Megapixel, 12 Megapixel, 16 Megapixel or 24.5 Megapixel CMOS sensor options
- Color or monochrome models
- 500 MB image buffer for controlled data transfer
- 6-pin GPIO connector
- Compatible with third-party software and hardware
- Support for a wide range of operating systems and host system architectures
- Rich sample code and descriptive API logging
- Simplified product iteration with consistent form factor across sensor sizes

Applications

- Factory automation
- Biometrics kiosk solutions
- Bar code reading
- Container inspection
- 3D scanning
- Automated optical inspection

Related Products



Teledyne FLIR IIS Blackfly® GigE Cameras



C Series Fixed Focal Length Lenses



HR Series Fixed Focal Length Lenses



HP Series Fixed Focal Length Lenses

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- Video
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APPLICATION NOTE

Sensor Performance and Limitations

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