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FG-P5G-161S7M-C, FLIR Forge 5GigE Camera

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Teledyne FLIR IIS Forge 5GigE Camera - Front



Stock **#74-649** **1 In Stock**

⊖ 1 ⊕ £2,000⁰⁰

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Monochrome **Spectrum:**

General

Monochrome Camera **Type:**

FG-P5G-161S7M-C	Model Number:
FLIR	Manufacturer:
Forge	Camera Series:

Physical & Mechanical Properties

29 x 44 x 74 (excludes connectors and lens mount)	Dimensions (mm):
132	Weight (g):
Full	Housing:

Sensor

500MB	Image Buffer:
1.1"	Sensor Format:
16.10	Resolution (Megapixels):
38.00	Frame Rate (fps):
5,320 x 3,032	Pixels (H x V):
2.74 x 2.74	Pixel Size, H x V (µm):
14.58 x 8.31	Sensing Area, H x V (mm):
Sony IMX542	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
8/10/12 Bit	Pixel Depth:
10µs - 30s	Exposure Time:
71.00	Dynamic Range (dB):
GigE Vision v2.0	Machine Vision Standard:

Electrical

8.5	Power Consumption (W):
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Hardware & Interface Connectivity

5GigE (PoE)	Interface:
5GigE, RJ45 with Screw Locks	Connector:
Power Supply Required and Sold Separately: USA: #88-063 Europe: #88-063 Japan: #88-063 Korea: Not Available China: #88-063	Power Supply:
1 opto-isolated input, 1 opto-isolated output, 1 non-isolated bi-directional, 1 non-isolated input	GPIOs:
Hardware Trigger (GPIO) or Software Trigger	Synchronization:
Back Panel	Interface Port Orientation:
6-pin Hirose (HR10)	GPIO Connector Type:

Threading & Mounting

C-Mount	Mount:
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Environmental & Durability Factors

0 to +65	Operating Temperature (°C):
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-30 to +60 **Storage Temperature (°C):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

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



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 Sapeira 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