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

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Teledyne FLIR IIS Forge 5GigE Camera - Front



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Color **Spectrum:**

**General**

Color Camera **Type:**

**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:**

70.00 **Dynamic Range (dB):**

GigE Vision v2.0 **Machine Vision Standard:**

## Electrical

8.5 **Power Consumption (W):**

## Hardware & Interface Connectivity

5GigE (PoE) **Interface:**

5GigE, RJ45 with Screw Locks **Connector:**

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#88-063](#)  
Europe: [#88-063](#)  
Japan: [#88-063](#)  
Korea: Not Available  
China: [#88-063](#)

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:**

## Environmental & Durability Factors

0 to +65 **Operating Temperature (°C):**

-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



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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