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# FG-P5G-50S4M-C, FLIR Forge 5GigE Camera

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Teledyne FLIR IIS Forge 5GigE Camera - Front



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## Product Downloads

Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

FG-P5G-50S4M-C **Model Number:**

FLIR **Manufacturer:**

Forge **Camera Series:**

## Physical & Mechanical Properties

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

**Weight (g):**  
132

**Housing:**  
Full

## Sensor

**Image Buffer:**  
500MB

**Sensor Format:**  
1/1.8"

**Resolution (Megapixels):**  
5.00

**Frame Rate (fps):**  
122.00

**Pixels (H x V):**  
2,448 x 2,048

**Pixel Size, H x V (µm):**  
2.74 x 2.74

**Sensing Area, H x V (mm):**  
6.71 x 5.61

**Imaging Sensor:**  
Sony IMX547

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
8/10/12 Bit

**Exposure Time:**  
6µs - 30s

**Dynamic Range (dB):**  
48.00

**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 +50

**Storage Temperature (°C):**

## 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



Teledyne  
Authorized  
Distributor

### 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 Spera 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