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# FG-P5G-120S6M-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-120S6M-C	<b>Model Number:</b>
FLIR	<b>Manufacturer:</b>
Forge	<b>Camera Series:</b>

## Physical & Mechanical Properties

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

## Sensor

500MB	<b>Image Buffer:</b>
1/1.1"	<b>Sensor Format:</b>
12.40	<b>Resolution (Megapixels):</b>
50.00	<b>Frame Rate (fps):</b>
4,096 x 3,000	<b>Pixels (H x V):</b>
2.74 x 2.74	<b>Pixel Size, H x V (µm):</b>
11.22 x 8.22	<b>Sensing Area, H x V (mm):</b>
Sony IMX545	<b>Imaging Sensor:</b>
Progressive Scan CMOS	<b>Type of Sensor:</b>
Global	<b>Shutter Type:</b>
8/10/12 Bit	<b>Pixel Depth:</b>
8µs - 30s	<b>Exposure Time:</b>
70.00	<b>Dynamic Range (dB):</b>
GigE Vision v2.0	<b>Machine Vision Standard:</b>

## Electrical

8.5	<b>Power Consumption (W):</b>
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## Hardware & Interface Connectivity

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

## Threading & Mounting

C-Mount	<b>Mount:</b>
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## Environmental & Durability Factors

0 to +65	<b>Operating Temperature (°C):</b>
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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