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# FG-P5G-120S6M-C, FLIR Forge 5GigE Camera

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Teledyne FLIR IIS Forge 5GigE Camera - Front



Stock **#74-652** NEW **1 In Stock**

- 1 + €1.925<sup>00</sup>

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**i** Prices shown are exclusive of VAT/local taxes

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

## Product Downloads

Monochrome

Spectrum:

General

Monochrome Camera

Type:

|                 |                |
|-----------------|----------------|
| FG-P5G-120S6M-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:             |
| 1/1.1"                | Sensor Format:            |
| 12.40                 | Resolution (Megapixels):  |
| 50.00                 | Frame Rate (fps):         |
| 4,096 x 3,000         | Pixels (H x V):           |
| 2.74 x 2.74           | Pixel Size, H x V (µm):   |
| 11.22 x 8.22          | Sensing Area, H x V (mm): |
| Sony IMX545           | Imaging Sensor:           |
| Progressive Scan CMOS | Type of Sensor:           |
| Global                | Shutter Type:             |
| 8/10/12 Bit           | Pixel Depth:              |
| 8µs - 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 Required and Sold Separately:<br>USA: <a href="#">#88-063</a><br>Europe: <a href="#">#88-063</a><br>Japan: <a href="#">#88-063</a><br>Korea: Not Available<br>China: <a href="#">#88-063</a> | 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: |
|---------|--------|

Environmental & Durability Factors

|          |                             |
|----------|-----------------------------|
| 0 to +65 | Operating Temperature (°C): |
|----------|-----------------------------|

|                       |                             |
|-----------------------|-----------------------------|
| -30 to +60            | Storage Temperature (°C):   |
| Regulatory Compliance |                             |
| <a href="#">View</a>  | 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 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