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

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Teledyne FLIR IIS Forge 5GigE Camera - Front

Teledyne Authorized Distributor

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

(-)   1   (+)   €2.500.⁰⁰

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Note: This item requires accessories for use | Learn More

Product Downloads

Spectrum:

Monochrome

General

Type:

Monochrome Camera

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

Physical & Mechanical Properties

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

Sensor

Image Buffer:	
500MB	
Sensor Format:	
1.1"	
Resolution (Megapixels):	
16.10	
Frame Rate (fps):	
38.00	
Pixels (H x V):	
5,320 x 3,032	
Pixel Size, H x V (µm):	
2.74 x 2.74	
Sensing Area, H x V (mm):	
14.58 x 8.31	
Imaging Sensor:	
Sony IMX542	
Type of Sensor:	
Progressive Scan CMOS	
Shutter Type:	
Global	
Pixel Depth:	
8/10/12 Bit	
Exposure Time:	
10µs - 30s	
Dynamic Range (dB):	
71.00	
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 +65	

Storage Temperature (°C):
-30 to +60

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

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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 Sapera 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

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