

## FORGE 1GigE IP67

Industrial Machine Vision Camera | FG-PGE-50S5M-C-IP / FG-PGE-50S5C-C-IP

### KEY FEATURES

#### IP67 Protection

New Forge 1GigE camera series with IP67 cylindrical enclosure ensures easy integration, simplified cleaning, and protection from dust and water up to 1 meter.

#### Markets & Applications

Built for harsh environments, the Forge 1GigE IP67 cameras excel in smart agriculture and food applications, with auto-brightness (AGC and Auto-Exposure) for variable and outdoor lighting.

#### Additional Capabilities

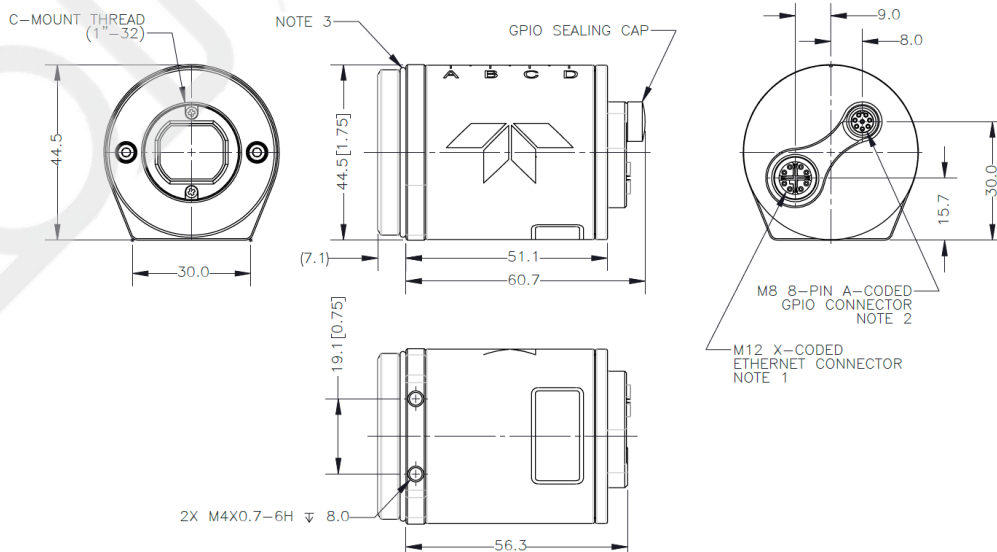
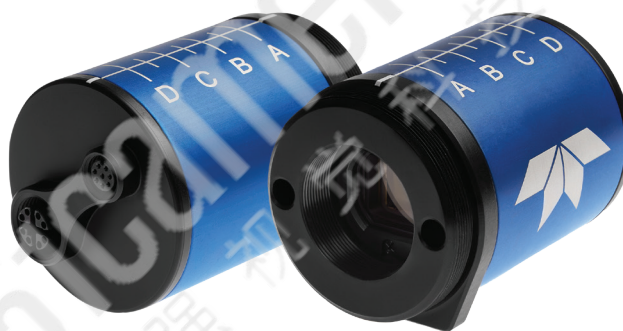
With advanced machine vision features, the Forge 1GigE IP67 cameras include IEEE1588 for multi-camera sync and Lossless Compression (LLC) for higher frame rates and reduced bandwidth, optimizing output without sacrificing image quality.

### APPLICATIONS

- Food and Beverage
- Automotive
- Precision Agriculture
- Pulp and Paper
- ITS / Traffic Enforcement

## Versatile, Robust, and Cost Effective

The Forge® 1GigE IP67 series offers affordable, easy-to-use GigE Vision cameras designed for industrial imaging with IP67 ingress protection and robust data capture. Ideal for users seeking a 1GigE performance upgrade, Forge 1GigE offers a compact IP67 body, multiple resolutions (1.2 - 12MP), and lower deployment costs.



## SPECIFICATIONS

|                            | FG-PGE-50S5M-C-IP   | FG-PGE-50S5C-C-IP   |
|----------------------------|---|---|
| Resolution                 | 2448 x 2048   |   |
| Frame Rate                 | 24 fps  |   |
| Megapixels                 | 5.0 MP  |   |
| Sensor Model               | Sony IMX264   |   |
| Sensor Size                | 2/3"  |   |
| Readout Method             | Global shutter  |   |
| Pixel Size                 | 3.45 µm   |   |
| Spectrum                   | Mono  |   |
| Lens Mount                 | C-mount   |   |
| ADC                        | 12-bit  |   |
| Minimum Frame Rate*        | 1 fps   |   |
| Gain Range                 | 0 – 47 dB   |   |
| Exposure Range*            | 27 µs to 30 seconds   |   |
| Acquisition Modes          | Continuous, Single Frame, Multi Frame                                 |   |
| Partial Image Modes        | Pixel binning, decimation, ROI  |   |
| Image Processing           | Gamma, lookup table, sharpness  | Color correction matrix, gamma, lookup table, saturation, sharpness |
| Image Buffer               | 240 MB  |   |
| User Sets                  | 2   |   |
| Flash Memory               | 6 MB (for user-defined data)  |   |
| Opto-isolated I/O          | 1 input, 1 output (on an IP-rated I/O connector)                      |   |
| Non-isolated I/O           | 1 bi-directional, 1 input (on an IP-rated I/O connector)              |   |
| Serial Port                | Supported (on an IP-rated I/O connector)                              |   |
| Auxiliary Output           | 3.3 V 120 mA  |   |
| Interface                  | 1 Gigabit Ethernet (on an IP-rated I/O connector)                     |   |
| Power Requirements         | Power over Ethernet (PoE) or externally powered over GPIO (12 - 24 V) |   |
| Power Consumption          | 3.3 W maximum PoE / 2.3 W maximum GPIO                                |   |
| Dimensions / Mass          | 55 mm x 45 mm x 45 mm (without optics) / 132 g                        |   |
| Machine Vision Standard    | GigE Vision v1.2  |   |
| Compliance                 | CE, FCC, KCC, RoHS, REACH. The ECCN for this product is: EAR099       |   |
| Temperature                | Operating: 0°C to 50°C / Storage: -30°C to 60°C                       |   |
| Humidity (no condensation) | Operating: 20% - 85% / Storage: 20% - 95%                             |   |
| Warranty                   | 3 Years   |   |

\*Values are the same in binning and no binning modes

## FOR MORE INFORMATION CONTACT:

**THE AMERICAS**  
 T: +1 866.765.0827 (toll free)  
 T: +1 604.242.9937  
 E: mv-sales@teledyne.com

**EUROPE, MIDDLE EAST, & AFRICA**  
 T: +49 7141 488817-0  
 F: +49 7141 488817-99  
 E: mv-eusales@teledyne.com  
  
**CHINA BEIJING OFFICE:**  
 T: +86-10-84669678 ex. 8019

**SHANGHAI OFFICE:**  
 T: +86-21-32501002 ex. 801  
 E: mv-chinasales@teledyne.com  
 E: mv-taiwansales@teledyne.com  
  
**JAPAN AND ASIA PACIFIC**  
 T: +81-3-5422-7866  
 E: mv-japansales@teledyne.com

This document does not contain information whose export/transfer/disclosure is restricted by the Canadian Export Control regulation. Teledyne FLIR reserves the right to make changes at any time without notice.  
 © 2024 Teledyne FLIR

Revision Date: 2025 03 13