



# Guppy PRO

## F-031



- Compact VGA camera
- Robust metal housing
- Sony ICX618 CCD sensor
- 123 fps

## Description

Small Firewire camera with Sony ICX618 - IEEE 1394b; 123 frames per second

The Guppy PRO F-031B/F-031C is a small IEEE 1394b camera with the Sony ICX618 sensor. This EXview HAD CCD sensor is very sensitive both in the visible spectrum and in the near-infrared (NIR) spectrum.

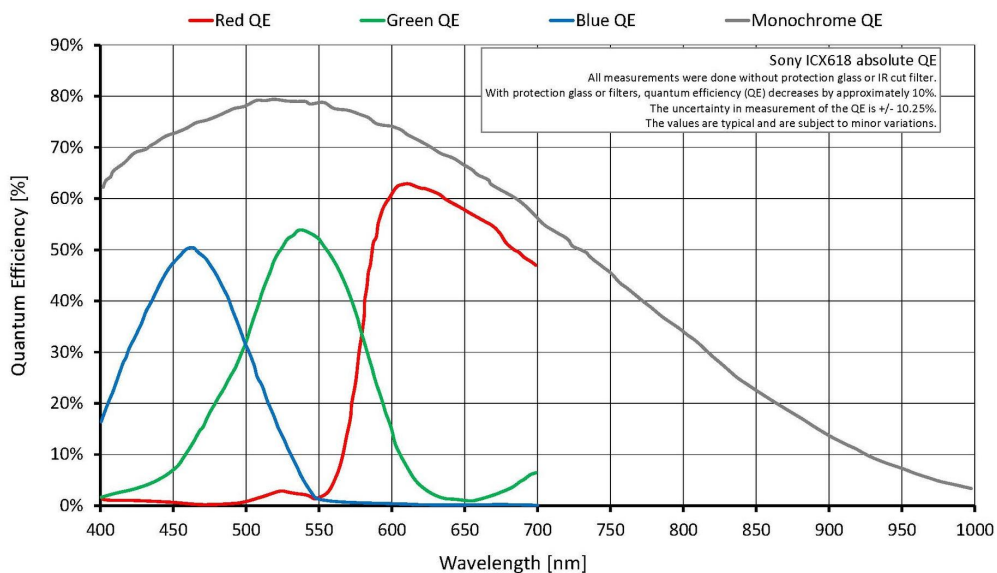
Options

- Various IR cut/pass filters
- White medical housing

## Specifications

| <b>Guppy PRO</b>                   | <b>F-031</b>                  |
|------------------------------------|-------------------------------|
| Interface                          | IEEE 1394b - 800 Mb/s, 1 port |
| Resolution                         | 656 (H) × 492 (V)             |
| Sensor                             | Sony ICX618                   |
| Sensor type                        | CCD Progressive               |
| Sensor size                        | Type 1/4                      |
| Pixel size                         | 5.6 μm × 5.6 μm               |
| Lens mount (default)               | C-Mount                       |
| Max. frame rate at full resolution | 123 fps                       |
| ADC                                | 14 bit                        |
| Image buffer (RAM)                 |                               |
|                                    | <b>Output</b>                 |
| Bit depth                          | 8-14 bit                      |
| Monochrome pixel formats           | 8/12/16                       |
| RGB color pixel formats            | RGB8                          |

| Guppy PRO                                     | F-031  |
|---|--|
| Raw pixel formats                             | 8/12/16  |
| <b>General purpose inputs/outputs (GPIOs)</b> |  |
| Opto-isolated I/Os                            | 1/3  |
| <b>Operating conditions/dimensions</b>        |  |
| Operating temperature                         | +5 °C to +45 °C                                      |
| Power requirements (DC)                       | 8 V to 36 V  |
| Power consumption                             | <3.5 W (@ 12 VDC)                                    |
| Mass  | 80 g   |
| Body dimensions (L × W × H in mm)             | 44.8 × 29 × 29 (including connectors)                |
| Regulations                                   | CE: 2014/30/EU (EMC), 2011/65/EU (RoHS); FCC Class B |



## Features

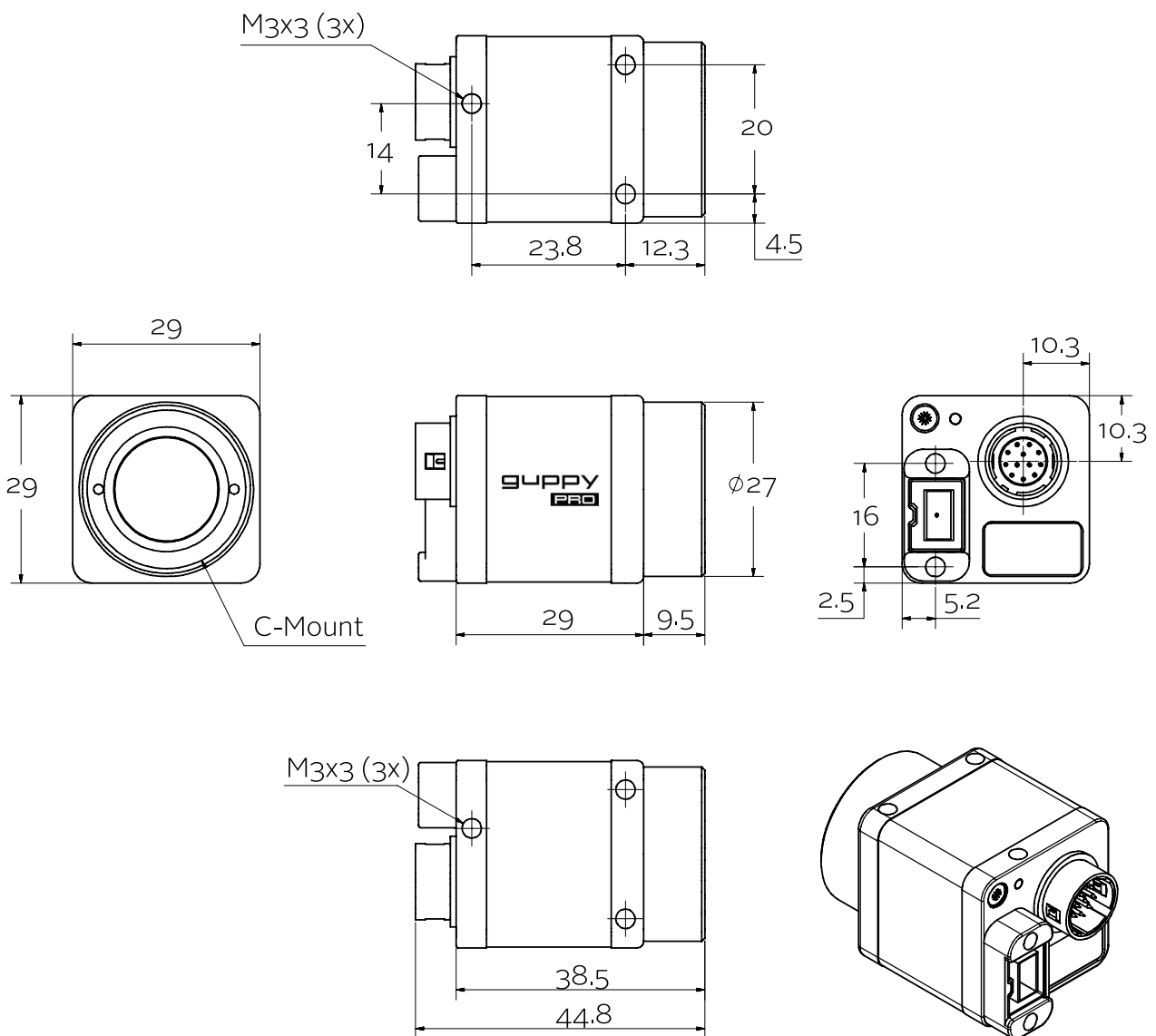
- Look-up table (LUT)
- Gamma correction
- Color correction
- Area of interest (AOI), separate AOI for auto features
- Binning
- Sub-sampling
- Auto gain (manual gain control: 0 to 24.4 dB)
- Auto exposure (75  $\mu$ s to 67 s)
- Trigger programmable, level, single, bulk, programmable delay

- Storable user sets

## Scope of delivery

- Camera and IEEE 1394b cable (other configurations on request)

## Technical drawing





## Applications

The Guppy PRO F-031B/F-031C is a fast and sensitive (also NIR sensitive) camera. Its robust, extremely compact design facilitates the integration into your system.

Typical Applications:

- Machine vision
- Robotics
- Semiconductor inspection
- Logistics
- Security and Surveillance
- Pharmaceutical industry
- Food inspection
- ITS/Traffic monitoring