



## Guppy PRO

### F-046



- Compact 0.5 MP camera
- Robust metal housing
- Sony ICX415 sensor
- Optocoupled I/Os

Small CCD camera with Sony ICX415 - IEEE 1394b

The Guppy PRO F-046B/F-046C is a small IEEE 1394b camera with the Sony ICX415 sensor. At full resolution the camera runs 62 frames per second. With a smaller area of interest (AOI), higher frame rates are possible.

#### Options

- Various IR cut/pass filters
- White medical housing

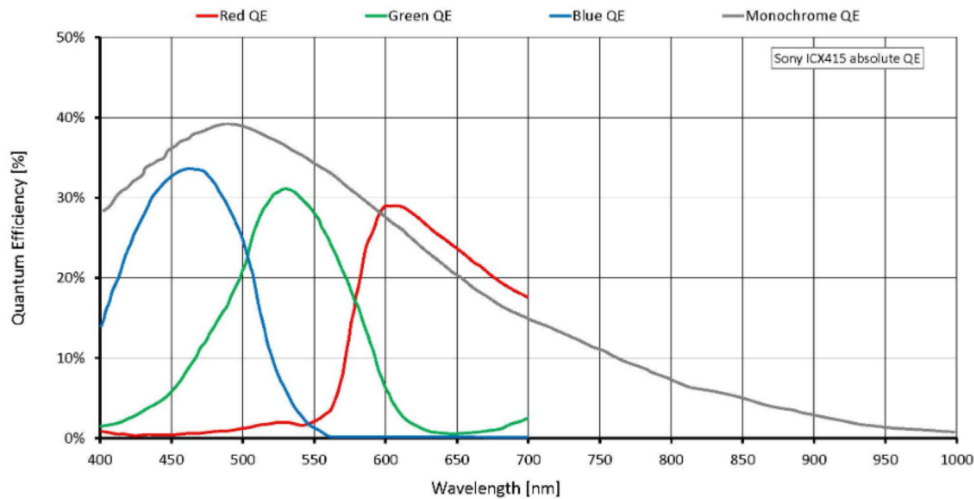
## Specifications

| Guppy PRO                          | F-046                         |
|------------------------------------|-------------------------------|
| Interface                          | IEEE 1394b - 800 Mb/s, 1 port |
| Resolution                         | 780 (H) × 580 (V)             |
| Sensor                             | Sony ICX415                   |
| Sensor type                        | CCD Progressive               |
| Sensor size                        | Type 1/2                      |
| Pixel size                         | 8.3 μm × 8.3 μm               |
| Lens mount (default)               | C-Mount                       |
| Max. frame rate at full resolution | 62 fps                        |
| ADC                                | 14 Bit                        |
| Output                             |                               |
| Bit depth                          | 8-12 Bit                      |
| Monochrome pixel formats           | 8/12/16                       |
| RGB color pixel formats            | RGB8                          |
| Raw pixel formats                  | 8/12/16                       |

General purpose inputs/outputs (GPIOs)

|                                        |                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------|
| <b>Guppy PRO</b>                       | <b>F-046</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, including amendment 2015/863/EU (RoHS); FCC Class B |

## Quantum efficiency



## 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 (41  $\mu$ s to 67 s)
- Trigger programmable, level, single, bulk, programmable delay

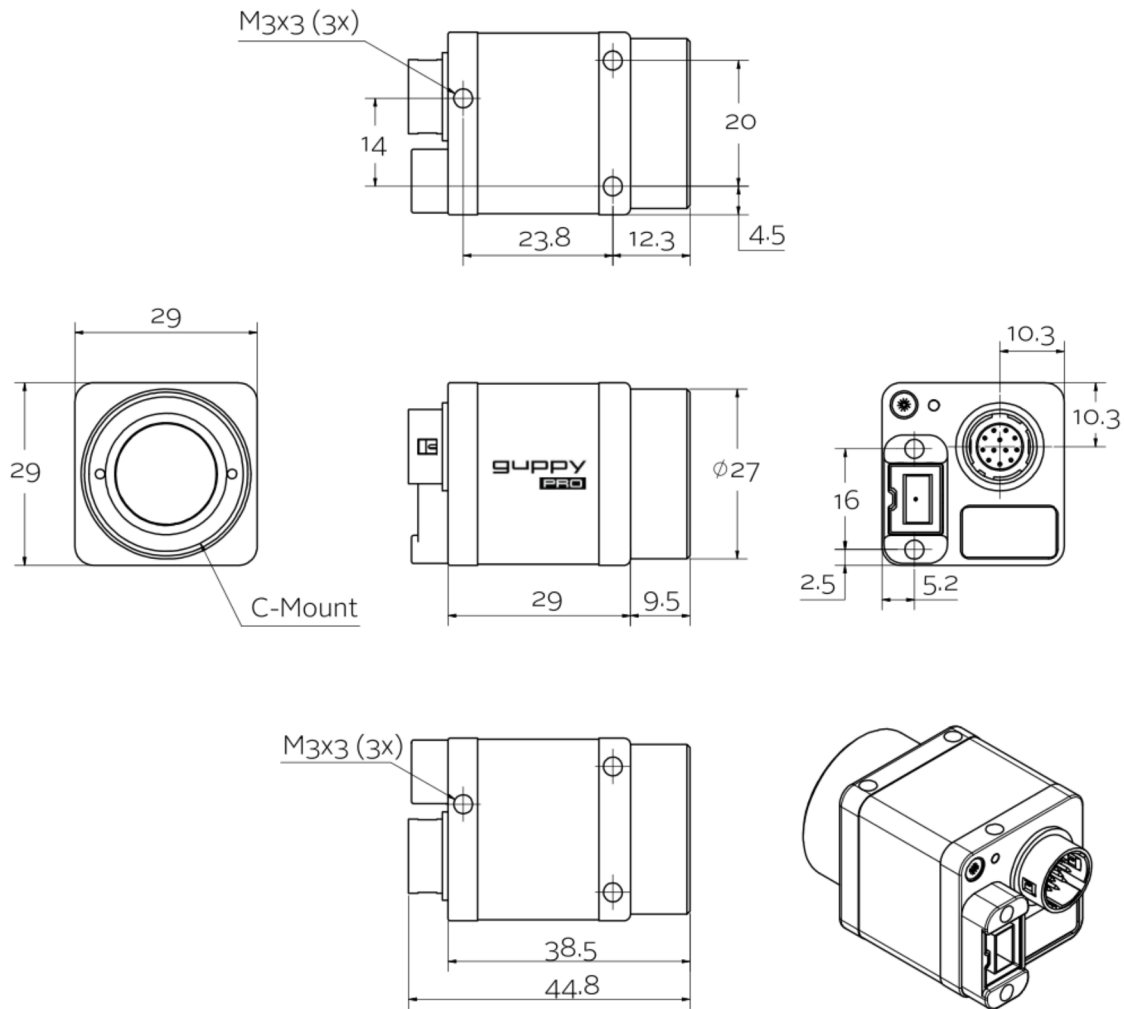


- Storable user sets

## Scope of delivery

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

Technical drawing





## Applications

This inexpensive, reliable mainstream machine vision camera addresses a wide range of imaging applications. With its ultra-compact housing, the Guppy PRO F-046B/F-046C is the perfect fit for all applications with space constraints.

- Machine vision
- Robotics (robust housing, lightweight camera)
- Quality control
- Semiconductor inspection
- Industrial inspection
- ITS/traffic monitoring