



# Guppy PRO

## F-046



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

## Description

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.

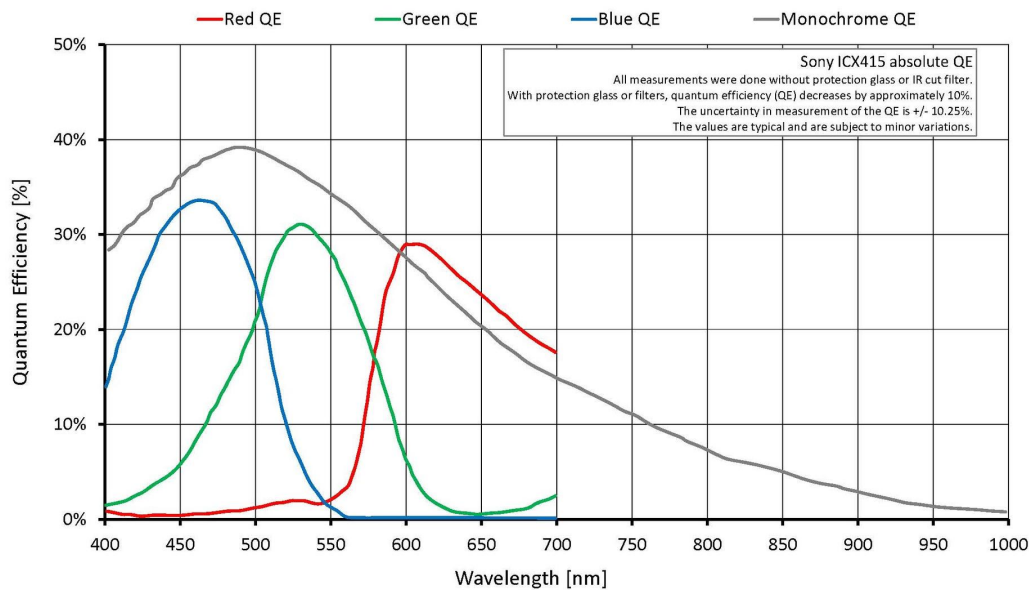
### Options

- 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
Image buffer (RAM)	
	<b>Output</b>
Bit depth	8-12 bit
Monochrome pixel formats	8/12/16

<b>Guppy PRO</b>	<b>F-046</b>
RGB color pixel formats	RGB8
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 (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