



Guppy F-046



- IEEE 1394a camera
- Lightweight
- Robust design
- Machine vision camera

Very compact, inexpensive FireWire camera - 0.5 Megapixels

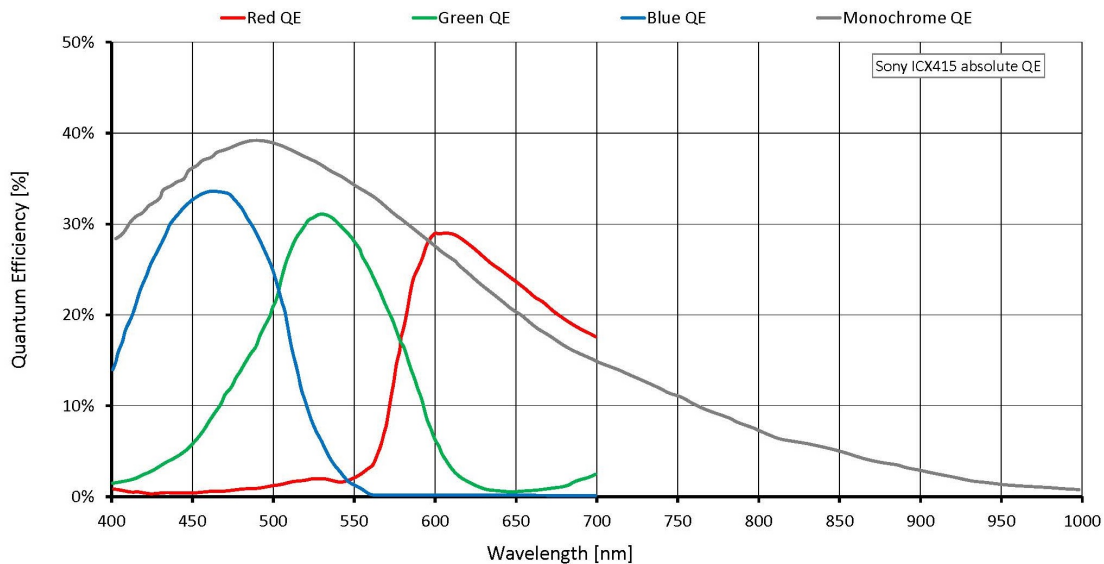
The Guppy F-046B/F-046C is a very compact, inexpensive camera with a sensitive Sony CCD sensor. At full resolution, it runs at up to 49.4 frames per second. Higher frame rates can be reached by a smaller area of interest (AOI).

Specifications

| Guppy | F-046 |
|---|-------------------------------|
| Interface | IEEE 1394a - 400 Mb/s, 1 port |
| Resolution | 780 (H) × 582 (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, CS-Mount |
| Max. frame rate at full resolution | 49 fps |
| ADC | 12 Bit |
| Output | |
| Bit depth | 8 Bit |
| Monochrome pixel formats | Mono8 |
| RGB color pixel formats | n/a |
| Raw pixel formats | Raw8 |
| General purpose inputs/outputs (GPIOs) | |
| TTL I/Os | 1 input, 3 outputs |
| RS232 | 1 |
| Operating conditions/dimensions | |

| Guppy | F-046 |
|-----------------------------------|---|
| Operating temperature | +5 °C to +45 °C |
| Power requirements (DC) | 8 V to 36 V |
| Power consumption | <2 W (@ 12 VDC) |
| Mass | 50 g |
| Body dimensions (L × W × H in mm) | 48.2 × 30 × 30 (including connectors) |
| Regulations | CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class B |

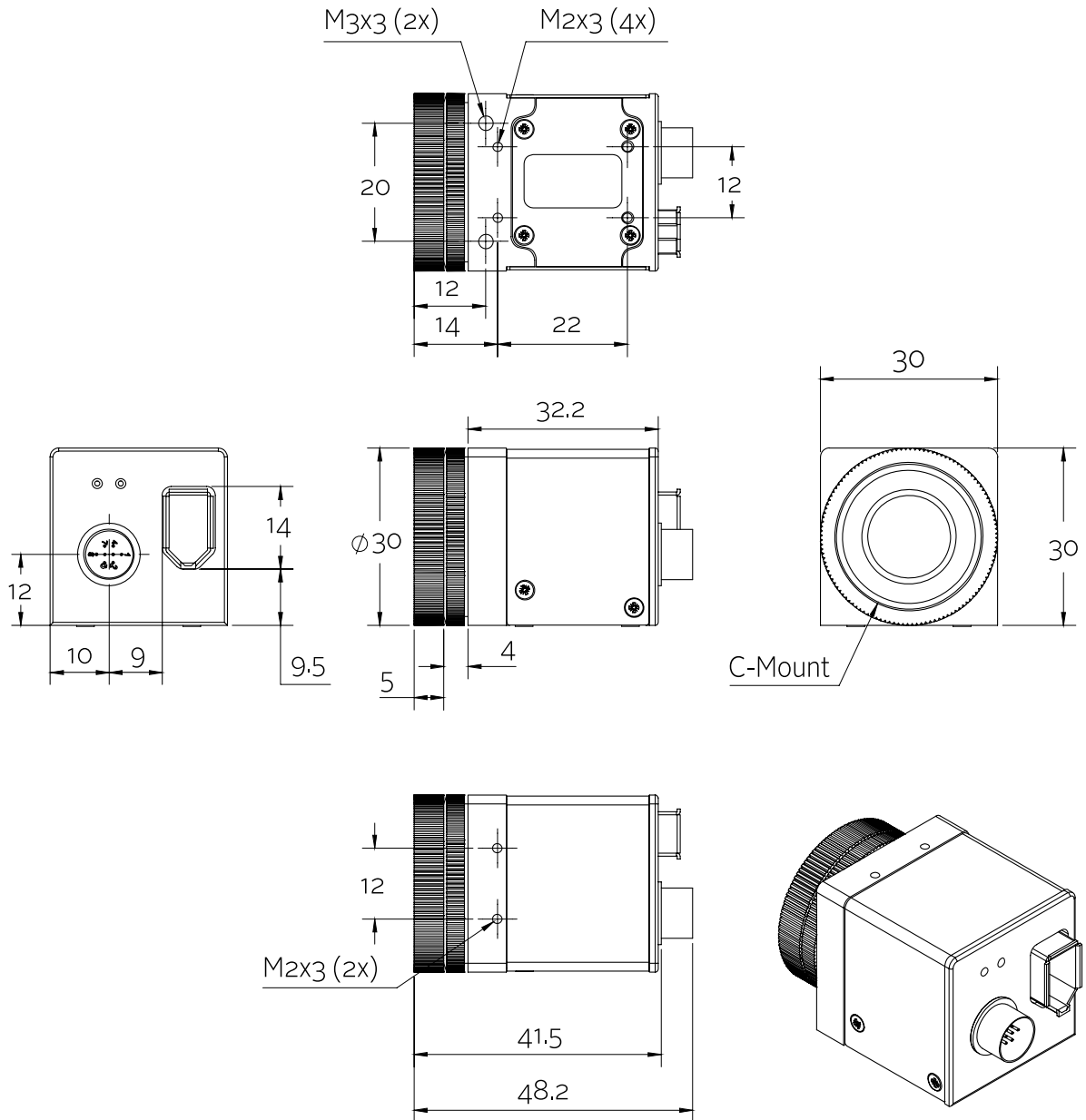
Quantum efficiency



Features

- Look-up table (LUT)
- Area of interest (AOI), separate AOI for auto features
- Auto gain (0 to 24 dB)
- Auto exposure (42 μ s to 67 s)
- Auto white balance
- Storable user sets

Technical drawing





Applications

This inexpensive, reliable mainstream 0.5 Megapixel camera addresses a wide range of imaging applications (e.g. robotics). With its ultra-compact housing, the Guppy F-046B/F-046C is the perfect fit for all applications with space constraints.

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