



Guppy PRO

F-033



- Compact VGA camera
- Robust metal housing
- 1/2" CCD sensor
- Optocoupled I/Os

Description

Small CCD camera with ICX414 - 1394b, VGA

The Guppy PRO F-033B/C is a small 1394b camera with the ICX414 sensor and VGA resolution. At full resolution the camera runs 85 fps. With a smaller AOI, higher frame rates are possible.

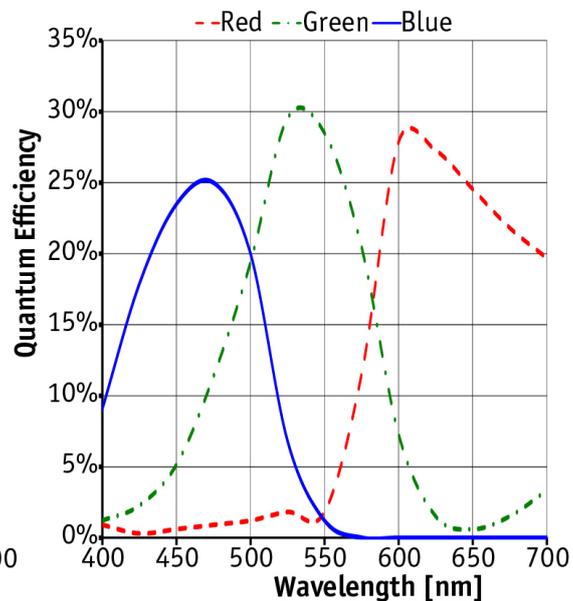
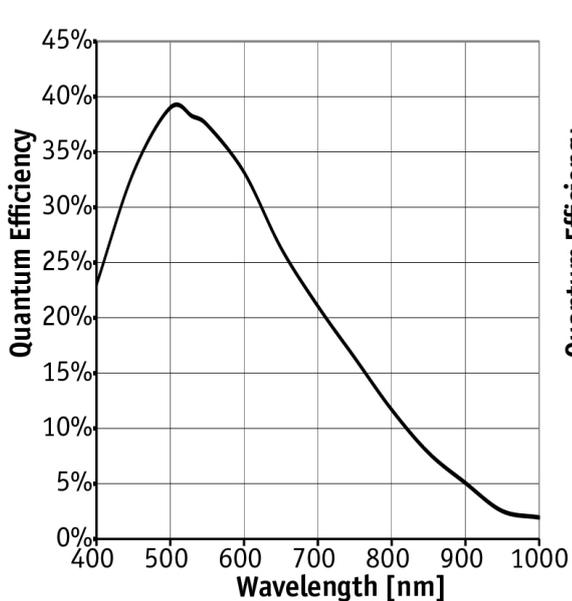
Options

- Various IR cut/pass filters
- White medical housing

Specifications

| Guppy PRO | F-033 |
|-----------------------------------|-------------------------------|
| Interface | IEEE 1394b - 800 Mb/s, 1 port |
| Resolution | 656 × 492 |
| Sensor | Sony ICX414 |
| Sensor type | CCD Progressive |
| Sensor size | Type 1/2 |
| Cell size | 9.9 μm |
| Lens mount | C-Mount |
| Max frame rate at full resolution | 85 fps |
| ADC | 14 bit |
| On-board FIFO | 0 Mbyte |
| | Output |
| Bit depth | 8-12 bit |
| Mono modes | 8/12/16 |
| Color modes RGB | RGB8 |

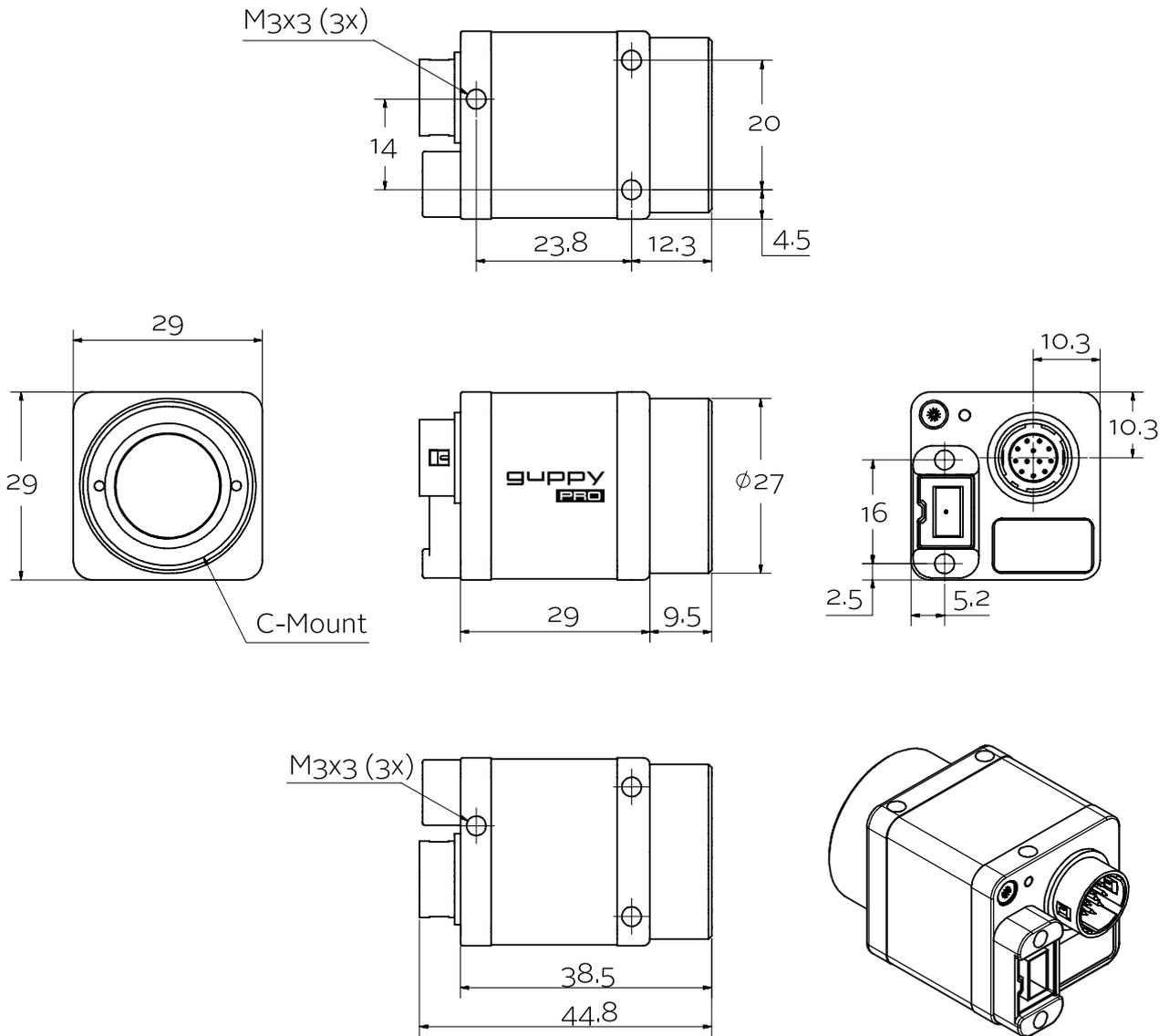
| | |
|---|------------------------------------|
| Guppy PRO | F-033 |
| Raw modes | 8/12/16 |
| General purpose inputs/outputs (GPIOs) | |
| Opto-isolated I/Os | 1/3 |
| Operating conditions/dimensions | |
| Operating temperature | +5 °C ... +45 °C |
| Power requirements (DC) | 8 V - 36 V |
| Power consumption (@12 V) | <3.5 W |
| Mass | 80 g |
| Body dimensions (L × W × H in mm) | 44.8 × 29 × 29 mm incl. connectors |
| Regulations | CE, FCC Class B, RoHS |



Features

- LUT (look-up table)
- Gamma
- Color correction
- AOI, separate AOI for auto features
- Binning
- Sub-sampling
- Auto gain (manual gain control: 0 to 24.4 dB)
- Auto exposure (31 μ s to 67 s)
- Trigger programmable, level, single, bulk, programmable delay
- Storable user sets

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-033B/C 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
- ... and many more