



Guppy

F-503



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

Description

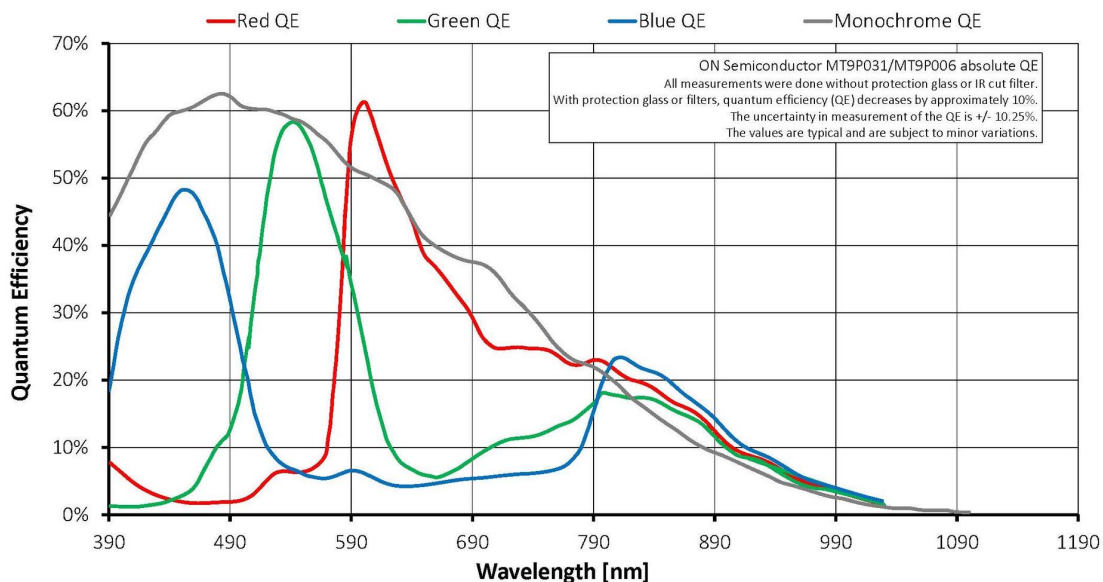
Very compact 5 Megapixel CMOS camera - attractive price - FireWire

The Guppy F-503B/F-503C is a very compact, economically priced camera with a CMOS sensor (no blooming). At full resolution, it runs up to 6.5 frames per second. Higher frame rates can be reached by a smaller area of interest (AOI), binning, or sub-sampling.

Specifications

| Guppy | F-503 |
|------------------------------------|---|
| Interface | IEEE 1394a - 400 Mb/s, 1 port |
| Resolution | 2592 (H) × 1944 (V) |
| Sensor | ON Semi MT9P031 |
| Sensor type | CMOS |
| Sensor size | Type 1/2.5 |
| Pixel size | 2.2 μm × 2.2 μm |
| Lens mount (default) | C-Mount, CS-Mount |
| Max. frame rate at full resolution | 6 fps |
| ADC | 12 bit |
| Image buffer (RAM) | |
| | Output |
| Bit depth | 8/12 bit |
| Monochrome pixel formats | Mono8, Mono12, Mono16 |
| RGB color pixel formats | n/a |
| Raw pixel formats | Raw8, Raw12, Raw16 |
| | General purpose inputs/outputs (GPIOs) |
| TTL I/Os | 1 input, 3 outputs |

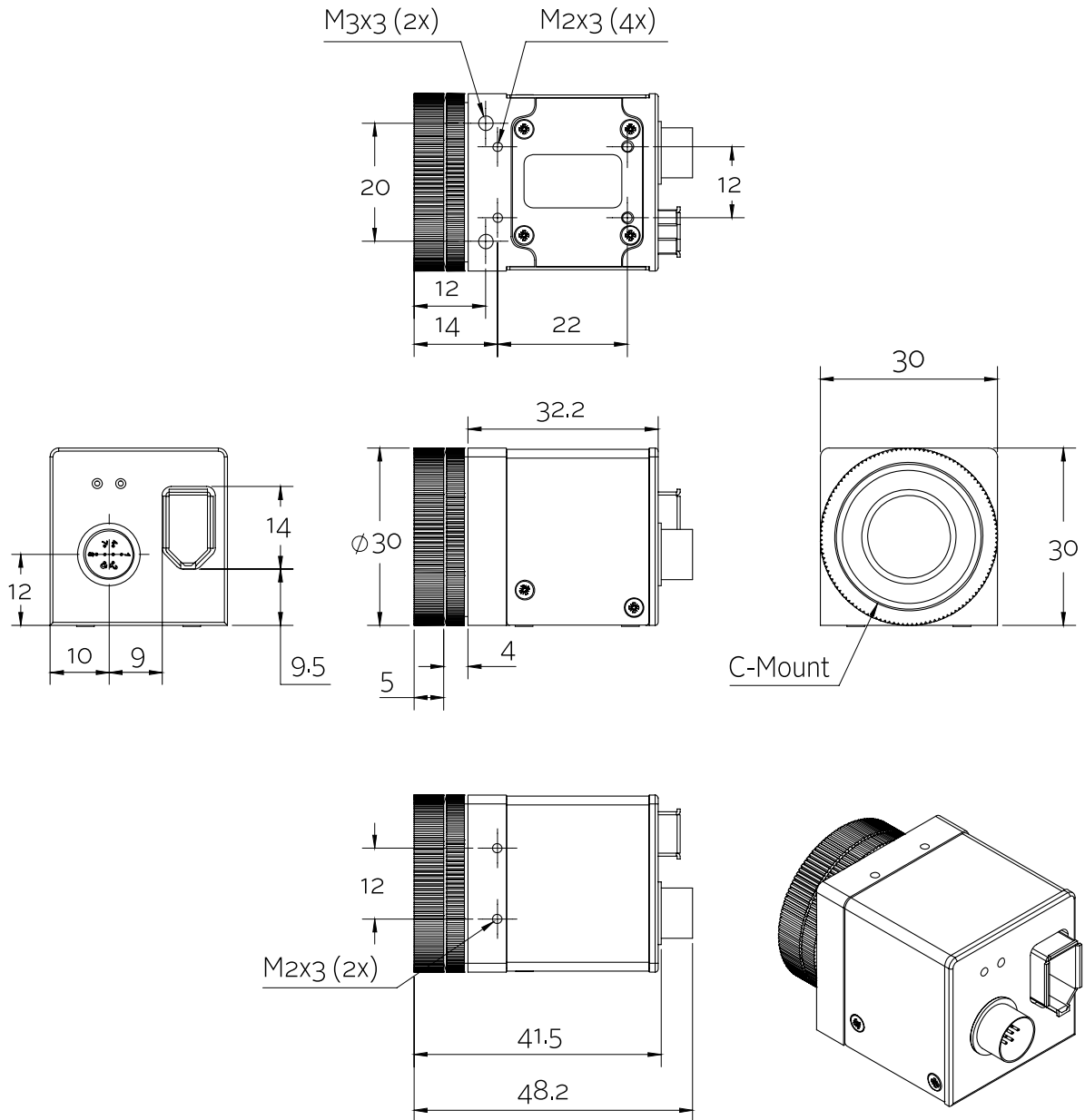
| Guppy | F-503 |
|-----------------------------------|--|
| RS232 | 1 |
| Operating conditions/dimensions | |
| Operating temperature | +5 °C to +45 °C |
| Power requirements (DC) | 8 V to 36 V |
| Power consumption | <2 W (@ 12 VDC) |
| Mass | 50 g |
| Body dimensions (L × W × H in mm) | 48.2 × 30 × 30 (including connectors) |
| Regulations | CE: 2014/30/EU (EMC), 2011/65/EU (RoHS); FCC Class B |



Features

- High Dynamic Range (HDR) mode
- Defect pixel correction
- Reverse X/Y
- Look-up table (LUT)
- Binning
- Decimation
- Area of interest (AOI), separate AOI for auto features
- Auto gain (0 to 26 dB)
- Auto exposure (41 µs to 2.3 s)
- Auto white balance
- Storable user sets

Technical drawing





Applications

The Guppy F-503B/F-503C is an economically priced 5 Megapixel camera; its CMOS sensor has no blooming and features the defect pixel correction mode. This camera fits a variety of applications:

- Quality control
- Industrial inspection
- Security and surveillance
- ITS/Traffic monitoring