



Guppy PRO

F-503



- Compact 5 MP camera
- ON Semiconductor (Aptina) CMOS sensor
- Excellent price/performance
- 13 fps

Description

Industrial CMOS camera, 5 Megapixels

The Guppy PRO F-503B/F-503C is an industrial CMOS camera with 5 Megapixel resolution. It is equipped with an ON Semiconductor (Aptina) sensor and runs 13 frames per second at full resolution.

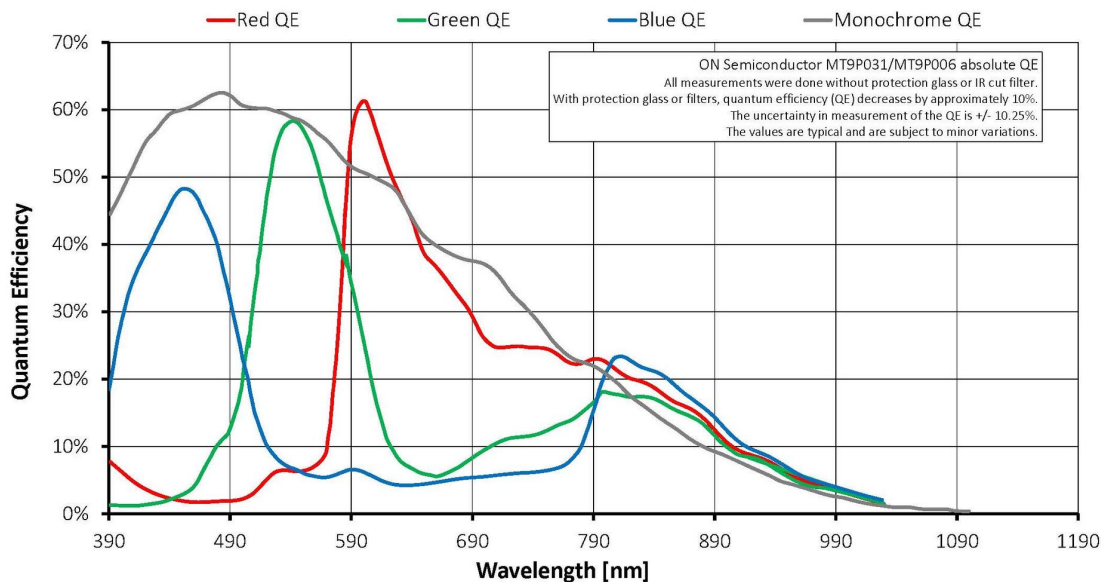
Options:

- Various IR cut/pass filters
- White medical housing

Specifications

| Guppy PRO | F-503 |
|------------------------------------|-------------------------------|
| Interface | IEEE 1394b - 800 Mb/s, 1 port |
| Resolution | 2588 (H) × 1940 (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 |
| Max. frame rate at full resolution | 13 fps |
| ADC | 12 bit |
| Image buffer (RAM) | |
| | Output |
| Bit depth | 8-12 bit |
| Monochrome pixel formats | 8/12/16 |
| Raw pixel formats | 8/12/16 |

| Guppy PRO | F-503 |
|---|--|
| General purpose inputs/outputs (GPIOs) | |
| Opto-isolated I/Os | 1/3 |
| Operating conditions/dimensions | |
| 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
- Defect pixel correction
- Area of interest (AOI), separate AOI for auto features
- Binning (monochrome and color)
- Low-noise binning
- Sub-sampling
- Image mirror H+V (color version only horizontal)
- Auto gain (manual gain control: 0 to 18.06 dB)



- Auto exposure (20 μ s to 22.3 s)
- Trigger with edge mode and programmable delay
- Storable user sets

Scope of delivery

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

Technical drawing





Applications

Thanks to the CMOS sensor and 5 Megapixel resolution, the Guppy PRO F-503B/F-503C is an industrial CMOS camera with a high performance and a very attractive price.

Applications:

- Industrial inspection with high resolution
- Robotics
- Logistics
- Pharmaceutical industry
- Multimedia
- ITS/Traffic monitoring