



## Guppy F-503

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

## Description

Very compact 5 Megapixel CMOS camera - attractive price - FireWire

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

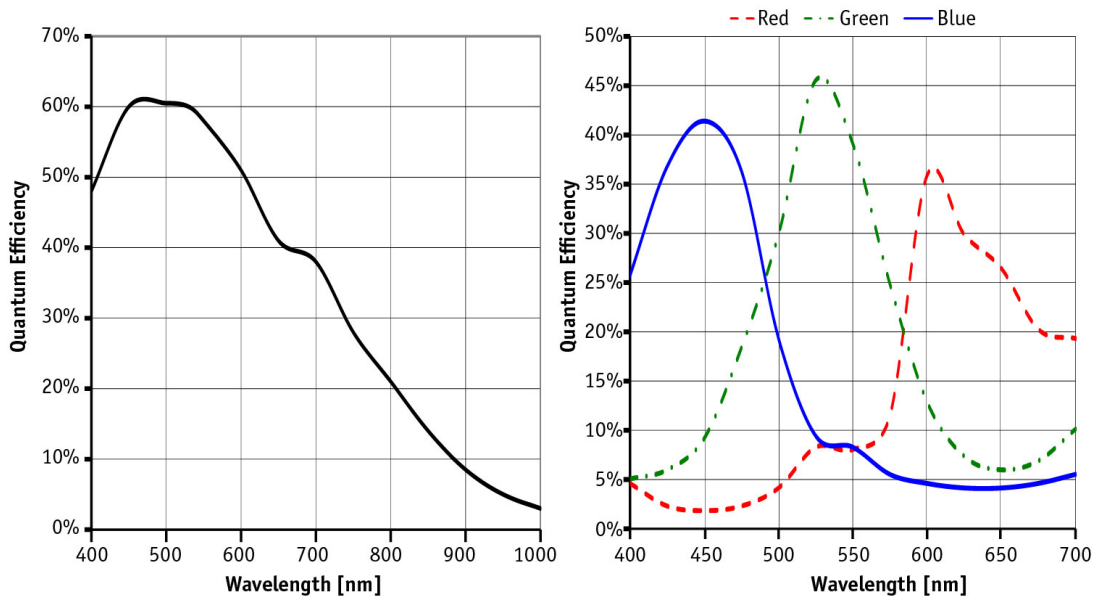
Options

- Various IR cut/pass filters
- White medical housing

## Specifications

Guppy	F-503
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	2592 × 1944
Sensor	Aptina MT9P031
Sensor type	CMOS Progressive
Sensor size	Type 1/2.5
Cell size	2.2 µm
Lens mount	C
Max frame rate at full resolution	6 fps
ADC	12 bit
On-board FIFO	0 Mbyte
<b>Output</b>	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono16

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Color modes RGB	n/a
Raw modes	Raw8, Raw12, Raw16
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 3 outputs
RS-232	1
Operating conditions/dimensions	
Power requirements (DC)	8 V - 36 V
Power consumption (@12 V)	<2 W
Mass	50 g
Body dimensions (L × W × H in mm)	48.2 × 30 × 30 mm incl. connectors
Regulations	CE, FCC Class B, RoHS

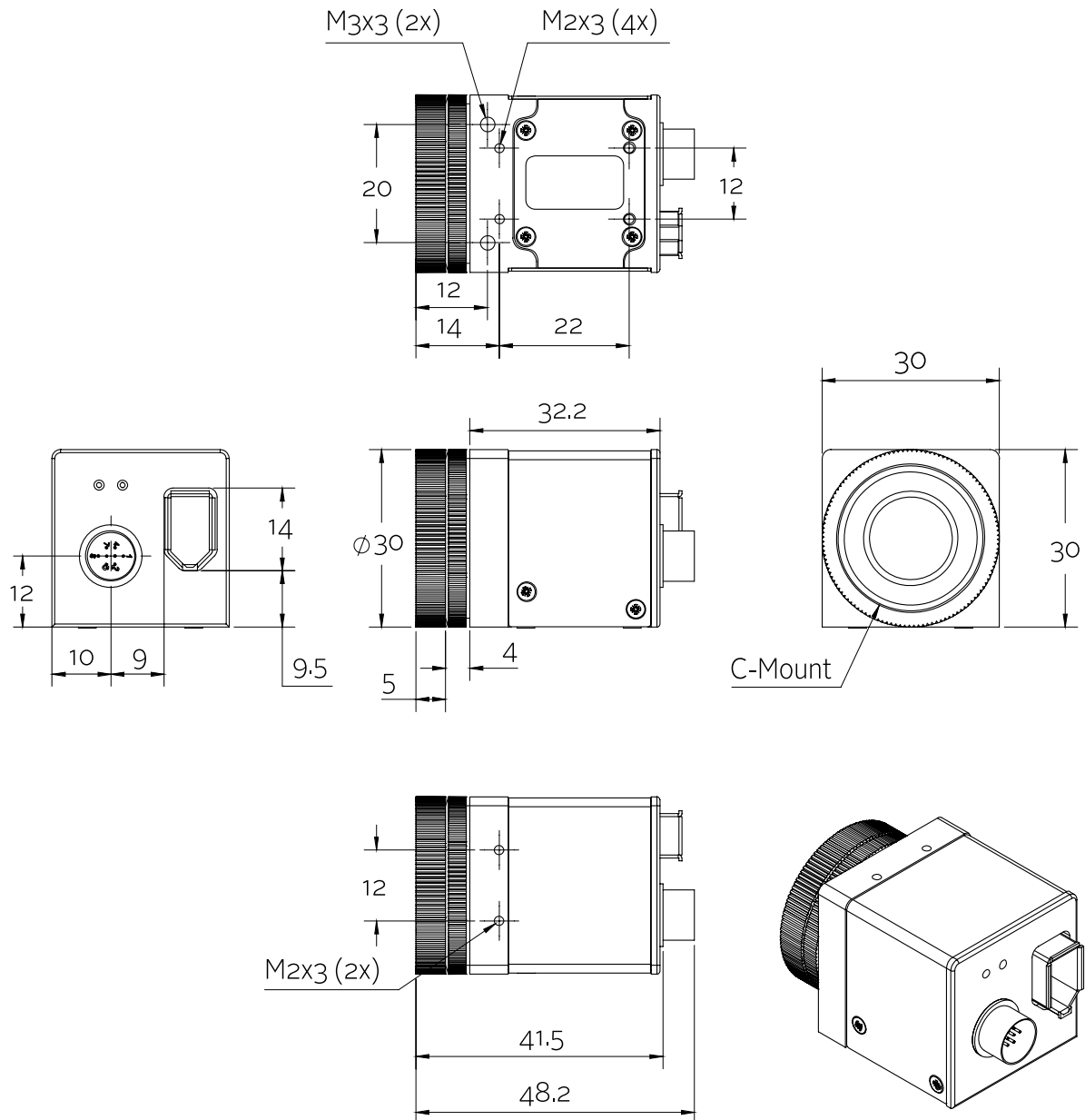


## Features

- HDR mode (High Dynamic Range mode)
- Defect pixel correction
- Reverse X/Y
- LUT (look-up table)
- Binning
- Decimation
- ROI, separate ROI for auto features
- Auto gain (0 to 26 dB)
- Auto exposure (41  $\mu$ s to 2.3 s)

- Auto white balance
- Storable user sets

## Technical drawing





## Applications

The Guppy F-503B/C 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
- ... and many more