



Guppy F-044

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

Description

Ultra-compact, inexpensive 0.4 Megapixel camera - interlaced, high sensitivity

The Guppy F-044B/C is equipped with an ultra-sensitive **interlaced** CCD sensor - which makes the move from analog to digital cameras (e.g. quality control applications) very easy. Additionally, with the Guppy F-044B/C NIR, a version with enhanced NIR sensitivity is available. At full resolution, it runs at up to 25 fps. Higher frame rates can be reached by a smaller AOI.

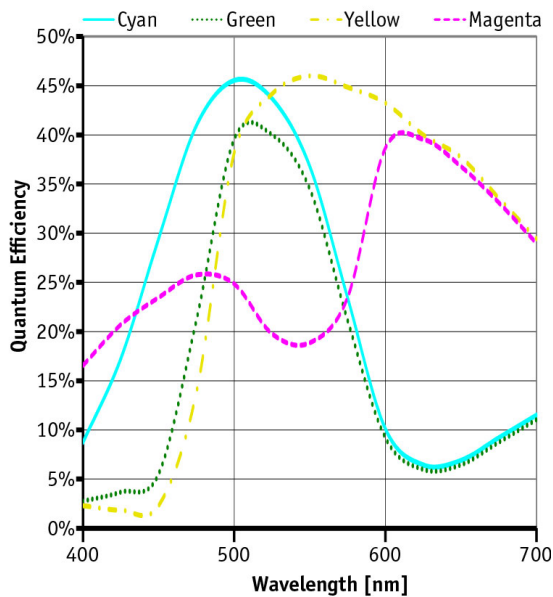
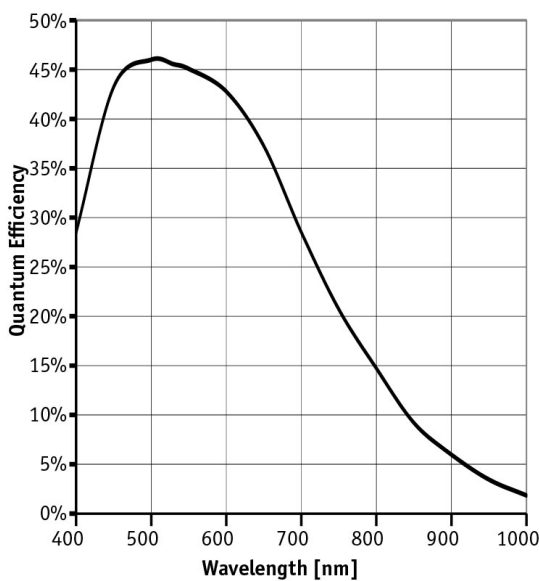
Options

- Various IR cut/pass filters
- White medical housing

Specifications

Guppy	F-044
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	752 × 580
Sensor	Sony ICX419
Sensor type	CCD Interlaced
Sensor size	Type 1/2
Cell size	8.6 x 8.3 µm
Lens mount	C
Max frame rate at full resolution	25 fps
ADC	12 bit
On-board FIFO	0 Mbyte
Output	
Bit depth	8 bit

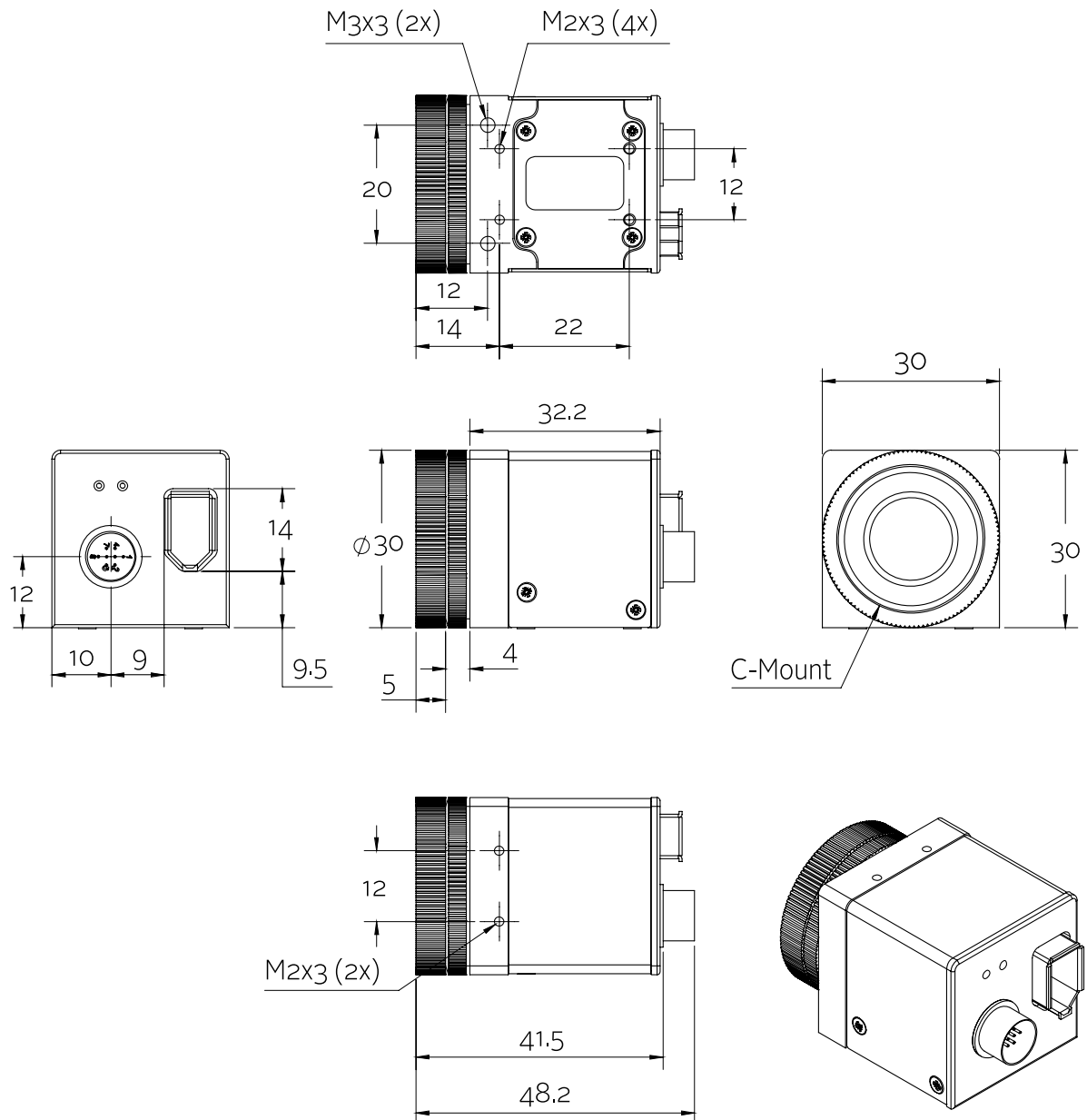
Guppy	F-044
Mono modes	Mono8
Color modes RGB	n/a
Raw modes	Raw8
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 3 outputs
RS-232	1
Operating conditions/dimensions	
Power requirements (DC)	8 V - 36 V
Power consumption (@12 V)	<2 W
Mass	50 g
Body dimensions (L × W × H in mm)	48.2 × 30 × 30 mm incl. connectors
Regulations	CE, FCC Class B, RoHS



Features

- LUT (look-up table)
- ROI, separate ROI for auto features
- Auto gain (0 to 24 dB)
- Auto exposure (62 μ s to 67 s)
- Auto white balance
- Storable user sets

Technical drawing





Applications

Due to the very sensitive interlaced sensor, the Guppy F-044B/C is a very inexpensive, easy solution for the switch from analog to digital cameras, e.g for quality control. The Guppy F-044B/C NIR version has enhanced near infrared sensitivity.

- Machine vision
- Quality control
- Industrial inspection
- Robotics
- Security and surveillance
- Pharma
- Semiconductor inspection
- ITS/Traffic monitoring
- ... and many more