



Guppy F-044

Description

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

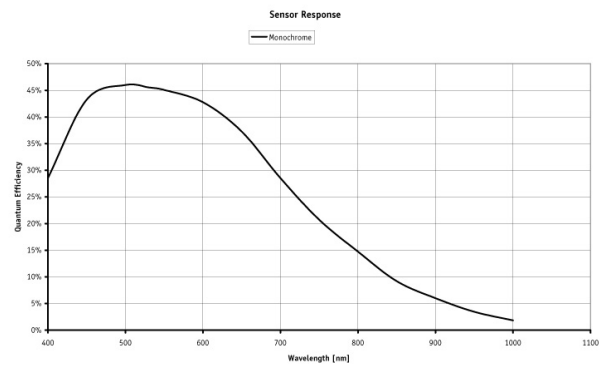
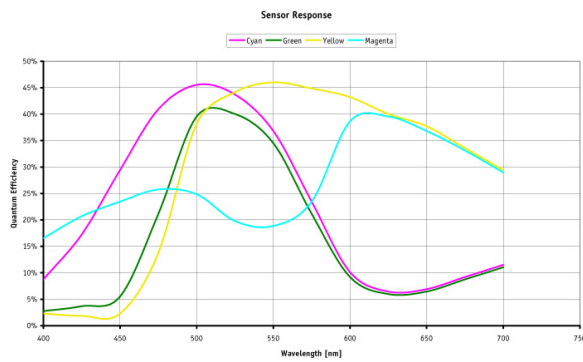
The Guppy F-044B/C is equipped with an ultra-sensitive **interlaced** CCD sensor - which makes the move from analog to digital cameras (e.g. quality control applications) very easy. Additionally, with the Guppy F-044B/C NIR, a version with enhanced NIR sensitivity is available. At full resolution, it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

- Sony ICX419 (NIR version: ICX429), interlaced CCD
- Trigger
 - Edge mode, bulk trigger, programmable trigger delay
- Options
 - Various IR cut/pass filters
 - CS-Mount
 - White medical housing

Specifications

Guppy F-044	
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	752 x 580
Sensor	Sony ICX419
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
A/D	12 bit
On-board FIFO	0 MB
Output	
Bit depth	8 bit
Mono modes	Mono8
Color modes YUV	n/a
Color modes RGB	n/a
Raw modes	Raw8
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 3 outputs
Opto-coupled I/Os	0
RS-232	1
Power/Mass/Dimensions/Regulations	
Power requirements (DC)	8 V - 36 V
Power consumption (12 V)	<2 W
Mass	50 g
Body Dimensions (L x W x H in mm)	48.2 x 30 x 30 mm incl. connectors
Regulations	CE, FCC Class B, RoHS

[Download Guppy technical drawing \(click here\)](#)



Smart features

- Programmable LUT
- Gain
 - Auto/manual
 - Manual gain control: 0 - 24 dB
- Exposure
 - Auto/manual
 - Exposure time: 62 μ s - 67 s
- Auto white balance

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

Application Case Study:

- **Cotton Interlaced**

Industrial Inspection: How Guppy interlaced digital cameras provided an easy and affordable migration from analog to digital interface incotton testing machines in India.