



Guppy F-033

Description

Ultra-compact, inexpensive 1394 VGA machine vision camera

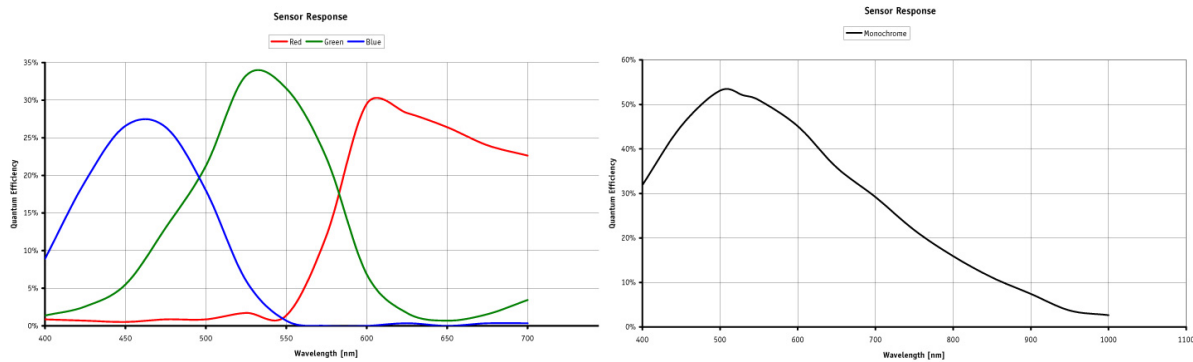
The Guppy F-033B/C is an ultra-compact, inexpensive VGA machine vision camera with a sensitive CCD sensor (Sony ICX424). At full resolution, it runs up to 58 fps. Higher frame rates can be reached by a smaller AOI.

- Sony ICX424 (progressive scan)
- Trigger
 - Edge mode, level mode, bulk trigger; programmable trigger delay
- Options
 - Various IR cut/pass filters
 - CS-Mount, M12-Mount adapter
 - On request: board level version

Specifications

Guppy F-033	
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	656 x 494
Sensor	Sony ICX424
Type	CCD Progressive
Sensor Size	Type 1/3
Cell size	7.4 µm
Lens mount	C
Max frame rate at full resolution	58 fps
A/D	10 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: 129 μ s - 67 s
- Separate AOI for auto features
- Auto white balance

Applications

This inexpensive, reliable mainstream VGA machine vision camera addresses a wide range of imaging applications. With its ultra-compact, small housing, the Guppy F-033B/C is the perfect fit for all applications with space constraints.

- Machine vision
- Robotics (robust housing, lightweight camera)
- Quality control
- Ophthalmology
- Semiconductor inspection
- Industrial inspection
- ... and many more

Application Case Studies:

- **Advertising In The Third Dimension**

Multimedia & Entertainment: With the Virtual Stage, advertisers are discovering a new dimension: the floor. This innovative system transmits advertising messages in an original, entertaining and interactive way.