Guppy F-038

Description

Sensitive machine vision camera, 0.4 Megapixel, interlaced sensor

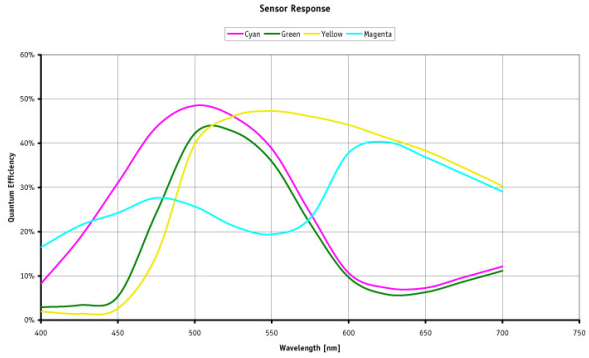
The Guppy F-038B/C is equipped with a sensitive **interlaced** sensor - which makes the move from analog to digital machine vision cameras very easy. Additionally, with the Guppy F-038B/C NIR, a version with enhanced NIR sensitivity is available. At full resolution, it runs at up to 30 fps. Higher frame rates can be reached by a smaller AOI.

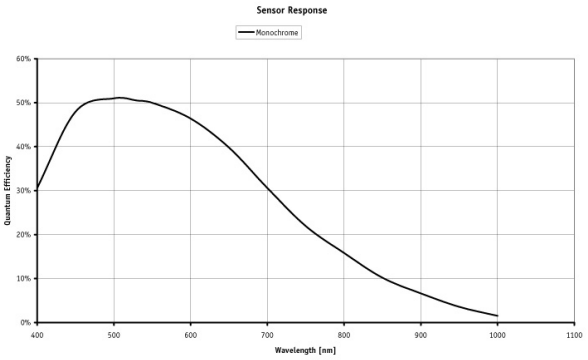
- Sony ICX418 interlaced CCD (NIR version: ICX428)
- Trigger
  - Edge mode, bulk trigger, programmable trigger delay
- Options
  - Various IR cut/pass filters
  - CS-Mount
  - White medical housing

Specifications

Guppy	F-038
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	768 x 492
Sensor	Sony ICX418
Type	CCD Interlaced
Sensor Size	Type 1/2
Cell size	8.4 x 9.8
Lens mount	C
Max frame rate at full resolution	30 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 µs - 67 s
- Auto white balance

Applications

Thanks to its sensitive interlaced sensor, the Guppy F-038B/C is a very cost-effective, easy solution for the switch from analog to digital machine vision cameras. The Guppy F-038B/C NIR version has enhanced near infrared sensitivity.

- Machine vision
- Quality control
- Robotics
- Industrial inspection
- Security and surveillance
- ... 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 in cotton testing machines in India.