



## Guppy PRO F-031

### Description

#### Small CCD camera with ICX618 - 1394b

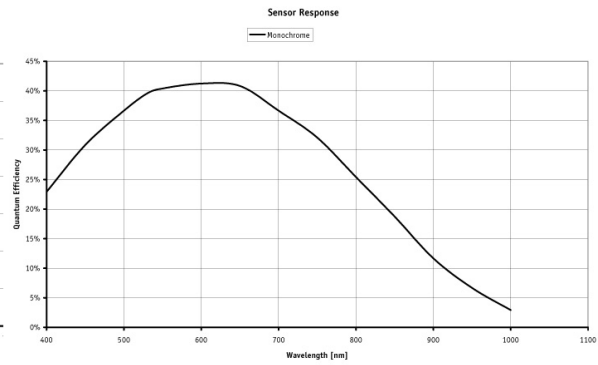
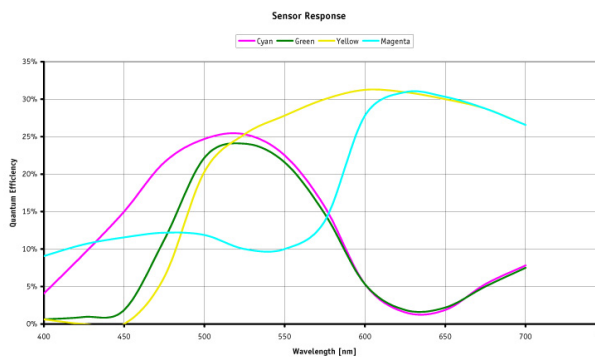
The Guppy PRO F-031B/C is a small 1394b camera with the ICX618 sensor. This ExView HAD CCD sensor is very sensitive both in the visible spectrum and in the NIR (near-infrared) spectrum.

- Sony ICX618 ExView HAD CCD sensor (VGA)
- Trigger
  - Programmable, trigger level control, single trigger, bulk trigger, programmable trigger delay
- Options
  - Various IR cut/pass filters
  - White medical housing

## Specifications

<b>Guppy PRO</b>		<b>F-031</b>	
<b>Interface</b>	IEEE 1394b - 800 Mb/s, 1 port		
<b>Resolution</b>	656 x 492		
<b>Sensor</b>	Sony ICX618		
<b>Type</b>	CCD Progressive		
<b>Sensor Size</b>	Type 1/4		
<b>Cell size</b>	5.6 µm		
<b>Lens mount</b>	C		
<b>Max frame rate at full resolution</b>	121 fps		
<b>A/D</b>	14 bit		
<b>On-board FIFO</b>	0 MB		
<b>Output</b>			
<b>Bit depth</b>	8-14 bit		
<b>Mono modes</b>	8/12/16		
<b>Color modes YUV</b>	411/422		
<b>Color modes RGB</b>	RGB8		
<b>Raw modes</b>	8/12/16		
<b>General purpose inputs/outputs (GPIOs)</b>			
<b>TTL I/Os</b>	0		
<b>Opto-coupled I/Os</b>	1/3		
<b>RS-232</b>	0		
<b>Power/Mass/Dimensions/Regulations</b>			
<b>Power requirements (DC)</b>	8 V - 36 V		
<b>Power consumption (12 V)</b>	3 W		
<b>Mass</b>	80 g		
<b>Body Dimensions (L x W x H in mm)</b>	44.8 x 29 x 29 mm incl. connectors		
<b>Regulations</b>	CE, FCC Class B, RoHS		

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



## Smart features

- AOI (separate AOI for auto features)
- Programmable LUT, gamma
- Debayering, color correction
- Gain
  - Auto/manual
  - Manual gain control: 0 - 24.4 dB
- Exposure
  - Auto/manual
  - Exposure time: 71  $\mu$ s - 67 s
- Binning (2 x 2 b/w)
- Sub-Sampling (2 x 2 b/w)

## Applications

The Guppy PRO F-031B/C is a fast and sensitive (also NIR sensitive) camera. Its robust, extremely compact design facilitates the integration into your system.

Typical Applications:

- Machine vision
- Robotics
- Semiconductor inspection
- Logistics
- Security and Surveillance
- Pharmaceutical industry
- Food inspection