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Guppy PRO F-046

FireWire

Description

Small CCD camera with ICX415 - 1394b

The Guppy PRO F-046B/C is a small 1394b camera with the ICX415 sensor. At full resolution the camera runs 62 fps. With a smaller AOI, higher frame rates are possible.

- Sony ICX415 CCD sensor
- Trigger
  - Programmable, trigger level control, single trigger, bulk trigger, programmable trigger delay
- Options
  - Various IR cut/pass filters
  - White medical housing

Specifications

Guppy PRO	F-046
Interface	IEEE 1394b - 800 Mb/s, 1 port
Resolution	780 x 580
Sensor	Sony ICX415
Sensor type	CCD Progressive
Sensor size	Type 1/2
Cell size	8.3 µm
Lens mount	C-Mount
Max frame rate at full resolution	62 fps
A/D	14 bit
	Output
Bit depth	8-12 bit
Mono modes	8/12/16
Color modes YUV	411/422
Color modes RGB	RGB8
Raw modes	8/12/16
	General purpose inputs/outputs (GPIOs)
Opto-coupled I/Os	1/3
	Operating conditions/Dimensions
Operating temperature	+5 °C ... +45 °C
Power requirements (DC)	8 V - 36 V
Power consumption (12 V)	<3.5 W
Mass	80 g
Body Dimensions (L x W x H in mm)	44.8 x 29 x 29 mm incl. connectors
Regulations	CE, FCC Class B, RoHS

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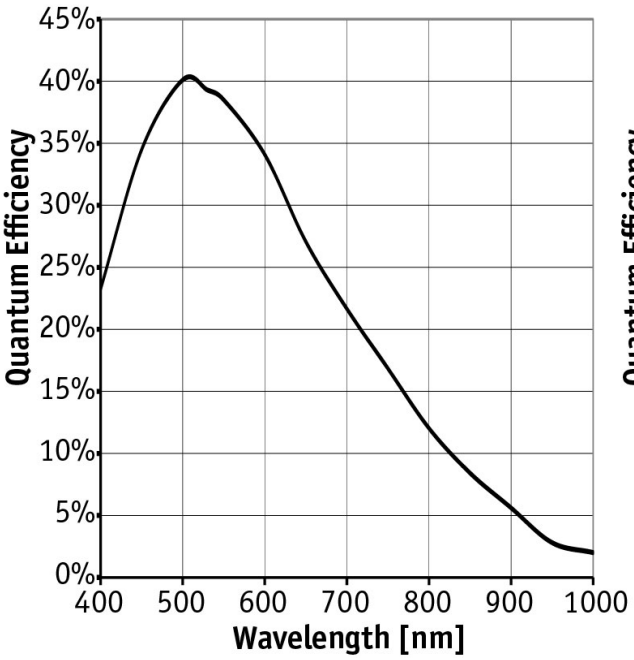

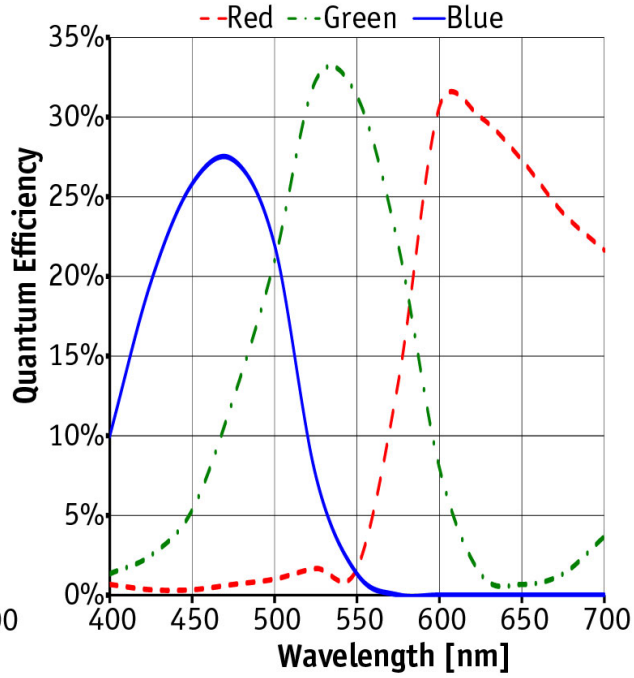

Smart features

- 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: 31 µs - 67 s
- Binning (2 x 2 b/w)
- Sub-Sampling (2 x 2 b/w)

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Applications

This inexpensive, reliable mainstream machine vision camera addresses a wide range of imaging applications. With its ultra-compact housing, the Guppy PRO F-046B/C is the perfect fit for all applications with space constraints.

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

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