Guppy PRO
F-033

FireWire

Description

Small CCD camera with ICX414 - 1394b, VGA

The Guppy PRO F-033B/C is a small 1394b camera with the ICX414 sensor and VGA resolution. At full resolution the camera runs 85 fps. With a smaller AOI, higher frame rates are possible.

- Sony ICX414 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

Guppy PRO	F-033
Interface	IEEE 1394b - 800 Mb/s, 1 port
Resolution	656 x 492
Sensor	Sony ICX414
Sensor type	CCD Progressive
Sensor size	Type 1/2
Cell size	9.9 µm
Lens mount	C-Mount
Max frame rate at full resolution	85 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

Download technical drawing (click here)

Red Green Blue

Quantum Efficiency

Wavelength [nm]
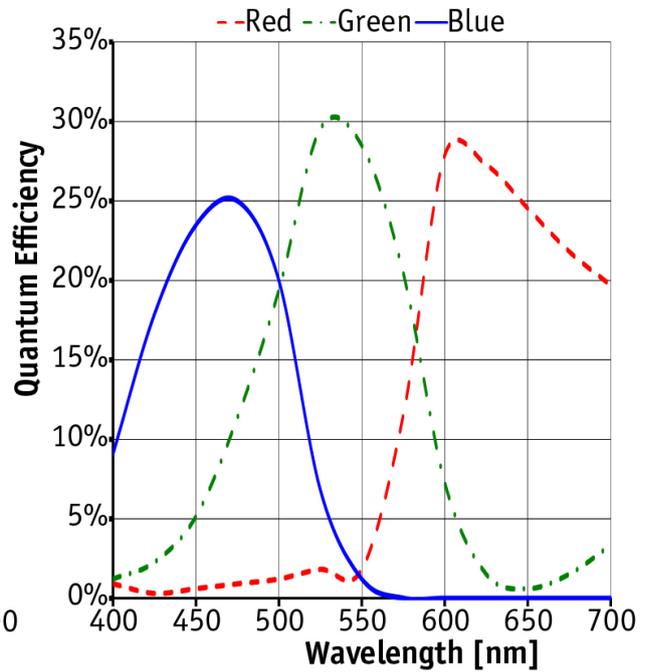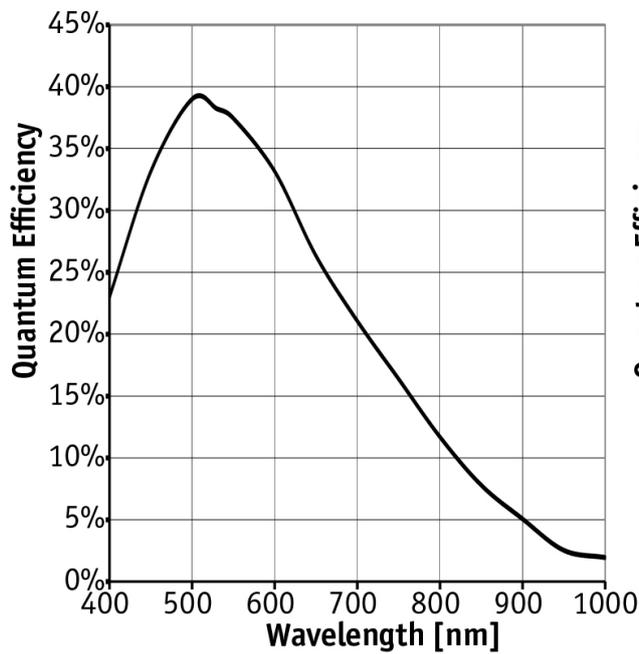
Smart features

- 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)

Applications

This inexpensive, reliable mainstream machine vision camera addresses a wide range of imaging applications. With its ultra-compact housing, the Guppy PRO F-033B/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