

Cameras for vicosys®

Guppy

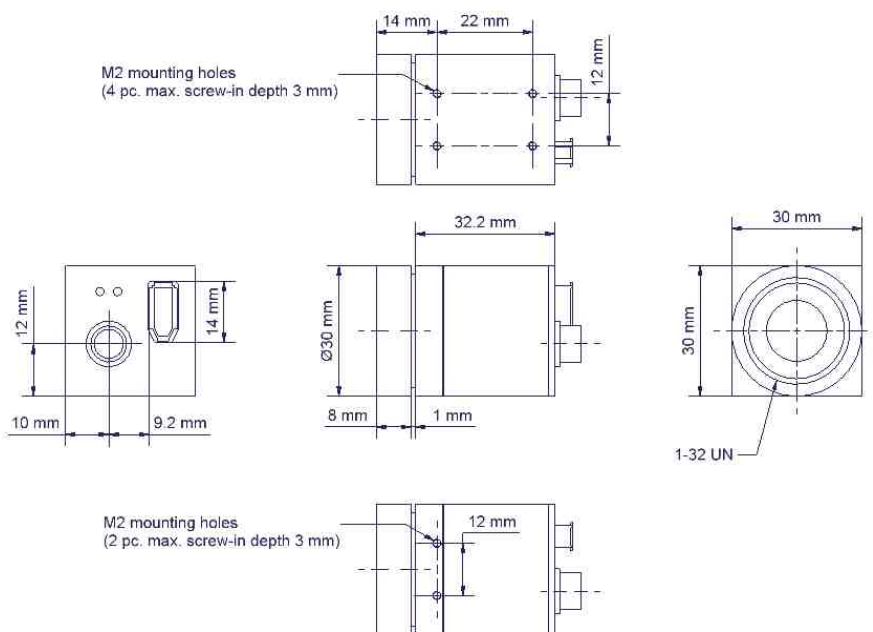
b/w cameras of Guppy series

Product features

- Digital FireWire cameras of most diverse resolutions
- External trigger
- Progressive Scan
- High Framerate
- Flexible AOI
- Extremely small design
- Compact and robust construction
- C-mount (thread connection)
- Very good price achievement relationship



Engineering drawing



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Manual



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CAD-File



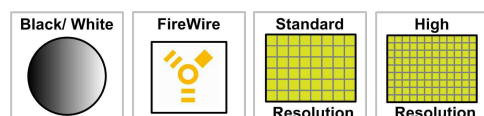
**NEW
2008**

Definition

The cameras of the Guppy series are available as black/ white and also as color cameras.

The FireWire cameras of the Guppy series differs only in the characteristics of the chip and the maximum framerate.

Variants



Cameras for vicosys®

Guppy b/w cameras of Guppy series

Technical data

Model	Guppy F-033B 4-22-020	Guppy F-046B 4-22-022	Guppy F-080B 4-22-024	Guppy F-146B 4-22-038
Sensor	1/3" Sony CCD, b/w, progressive scan	1/2" Sony CCD, b/w, progressive scan	1/3" Sony CCD, b/w, progressive scan	1/2" Sony CCD, b/w, progressive scan
Pixel number	640 x 480	782 x 582	1024 x 768	1392 x 1040
Cell size	7.4 µm x 7.4 µm	8.3 µm x 8.3 µm	4.65 µm x 4.65 µm	4.65 µm x 4.65 µm
Analogue-digital converter	10 bit	12 bit	12 bit	12 bit
Lens mount	C-Mount	C-Mount	C-Mount	C-Mount
Data interface	IEEE 1394a	IEEE 1394a	IEEE 1394a	IEEE 1394a
Transfer rate	100, 200, 400 Mbit/s	100, 200, 400 Mbit/s	100, 200, 400 Mbit/s	100, 200, 400 Mbit/s
Full frame frequency	60 Hz	53 Hz	30 Hz	17.7 Hz
Gain Control	Manual: 0 ... 24 dB; Auto gain	Manual: 0 ... 24 dB; Auto gain	Manual: 0 ... 24 dB; Auto gain	Manual: 0 ... 24 dB; Auto gain
Shutter	20 µs...67s, Auto Shutter	20 µs...67s, Auto Shutter	20 µs...67s, Auto Shutter	20 µs...67s, Auto Shutter
External trigger	Yes	Yes	Yes	Yes
Voltage supply	8 ... 36 VDC (via IEEE 1394 port)	8 ... 36 VDC (via IEEE 1394 port)	8 ... 36 VDC (via IEEE 1394 port)	8 ... 36 VDC (via IEEE 1394 port)
Weight	< 50 g	< 50 g	< 50 g	< 50 g
Dimensions	30 x 30 x 48.2 mm ³	30 x 30 x 48.2 mm ³	30 x 30 x 48.2 mm ³	30 x 30 x 48.2 mm ³
Operating temperature	+5 ... 50 °C	+5 ... 50 °C	+5 ... 50 °C	+5 ... 50 °C

Variants

Variants	Guppy F-033B	Guppy F-046B	Guppy F-080B	Guppy F-146B
Order number	4-22-020	4-22-022	4-22-024	4-22-038

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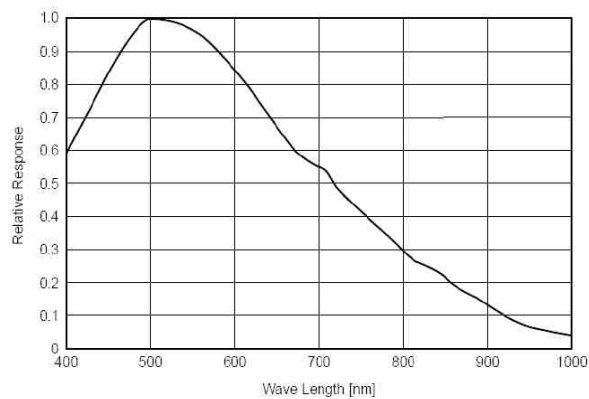
Notes

Scope of delivery

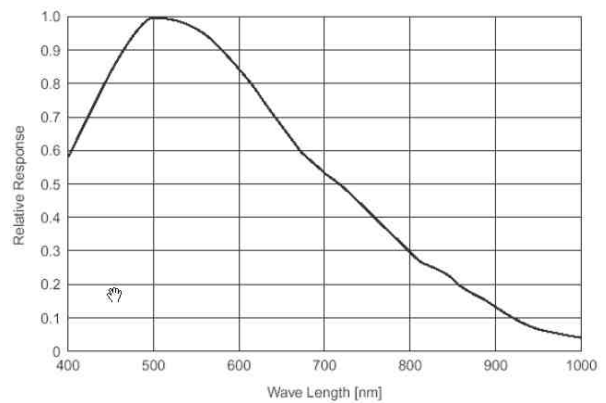
Guppy Camera
Camera cable IEEE 1394 4.5m

Technical diagram

Spectral Response Guppy F-033B



Spectral Response Guppy F-046B



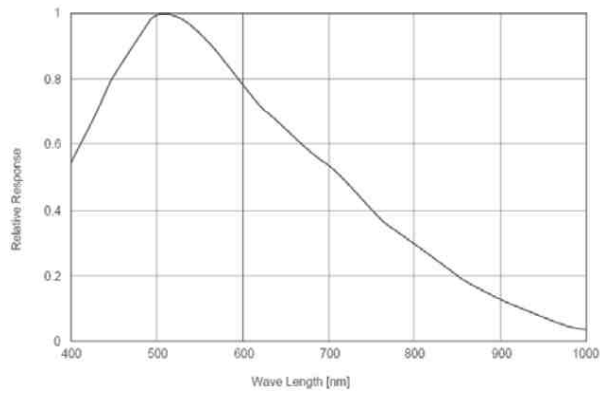
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Technical diagram

Spectral Response Guppy F-080B



Spectral Response Guppy F-146B

