

++ PRELIMINARY ++

## AVT Guppy F-503B / F-503C



### Small - easy - ingenious: Analog goes Guppy.

The AVT Guppy camera family is distinguished by an IEEE 1394 interface and an extremely compact design. It consists of ten different camera variants (each available in b/w and color) and, with a wide variety of sensors and bandwidths, offers the right solution for nearly any conceivable application. The Guppy is available optionally in a casing or board version (upon request) and therefore fits in the smallest spaces. A selection of high-quality, sensitive sensors (CCD, CMOS) help the Guppy provide outstanding image quality and true color. Two additional interlaced versions (EIA, CCIR) make it even more attractive to switch from analog to digital image processing. Due to its modularity and remarkable price/performance ratio, for many applications the Guppy is the ideal way to make the move to digital image processing.

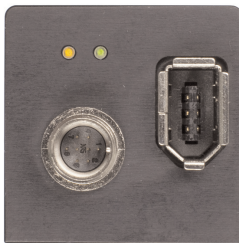
#### Highlights

- IEEE 1394a
- QWXGA (2592 x 1944)
- Up to 6.5 fps (full resolution)
- Rolling shutter CMOS, monochrome and color
- True partical scan (higher frame rates by smaller AOI)
- Flexible AOI, flexible speed (full Format\_7 support)
- Asynchronous image trigger
- Image preprocessing features:
  - Auto controlled gain, exposure, white balance (separate reference AOI)
  - Programmable LUT
  - And lots more ...
- Smart frame grabber features:
  - Single-shot, multi-shot, free-run
  - 1 prog. input / 3 prog. outputs
  - On-board RS-232 port
  - And lots more ...
- Industry proven and robust housing
- C-Mount / CS-Mount (convertible via adapter)
- Optional OEM board level version, customized housings
- Optical filters; cables; medical design (on request)

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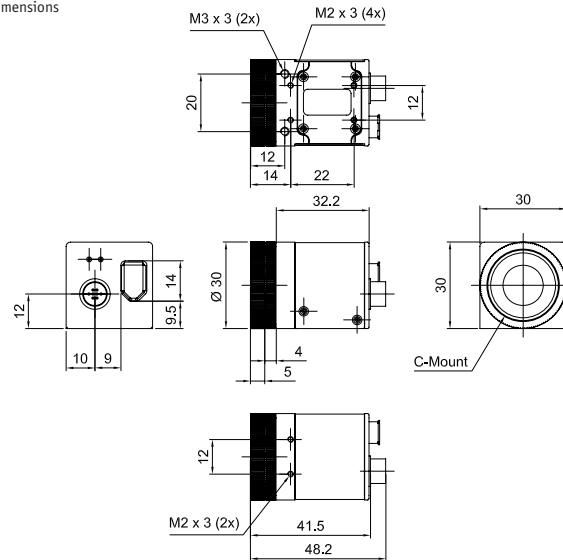
# AVT Guppy F-503B / F-503C

Pin	Signal
1	GP Output 1 (Default: IntEna)
2	GP Output 2 (Default: -)
3	GP Output 3 (Default: Busy)
4	GP Input 1 (Default: Trigger)
5	RxD RS232
6	TxD RS232
7	External Power (+8 ... +36 V DC)
8	External Ground



Connections

Dimensions



## Camera Specifications

	Guppy F-503B (b/w)	Guppy F-503C (color)
Image device	Type 1/2.5 (diag. 7.13 mm) Micron CMOS MT9P031	
Picture size	2592 (H)x 1944 (V)	
Cell size	2.2 µm x 2.2 µm	
Resolution depth	8 bit /12 bit (12 bit ADC)	
Lens mount	C-Mount, CS-Mount (convertible via adapter)	
Digital interface	IEEE 1394a (S400) single port	
Transfer rate	100 Mbit/s, 200 Mbit/s, 400 Mbit/s	
Frame rates	Up to 6.5 fps (full frames)	
Gain control	Manual 0 - 17.9 dB; auto gain (select. AOI)	
Shutter speed	42 µs...67s, auto shutter (select. AOI)	
External trigger shutter	Programmable, programmable trigger delay	
Smart features	2x - 4x binning or sub-sampling, multi-shot, separate reference AOI for auto features, mirror (vertical and horizontal), blemish correction	
Power requirements	DC 8 V - 36 V: 2 W @ 12 V	
Power consumption	Less than 2 watt (@ 12V DC)	
Dimensions	48.2 mm x 30 mm x 30 mm (L x W x H), w/o tripod and lens	
Mass	50 g (without lens)	
Operating temperature	+5... + 45° Celsius without condensation	
Storage temperature	-10... + 60° Celsius without condensation	
Regulations	CE, FCC Class B, RoHS (2002/95/EC)	
Options	Board level version, power out (HIROSE), AVT FirePackage / Active FirePackage / Fire4Linux	