

++ PRELIMINARY ++

AVT Guppy F-080B / F-080C



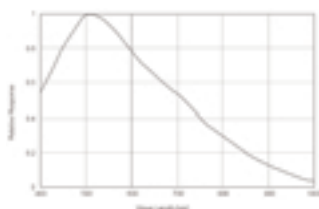
Small - easy - ingenious: Analog goes GUPPY.

The AVT GUPPY camera family is distinguished by an IEEE1394 interface (starting in the summer of 2006 also USB2.0) and an extremely compact design. It consists of six 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.

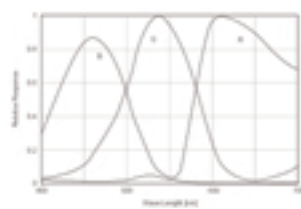
Highlights

- IEEE1394a
- USB 2.0 (Q2 2006)
- XGA (1034 x 778)
- Up to 30 fps (full resolution)
- Progressive Scan CCD, monochrome and color
- True Partial 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. Inputs / 3 prog. Outputs
 - On boards RS-232 Port
 - and lots more ...
- Industry proven and robust housing
- C-Mount, CS-Mount (convertable via adapter)
- OEM Boardlevel Version, Customized Housings

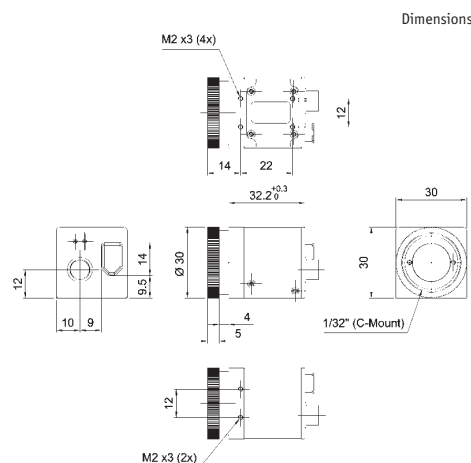
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Sensor Specifications b/w; color
(extracted from the data sheet of the sensor - excluding lens and filter)



Pin	Signal	Aoi_HEIGHT	fps
1	GP Output 0 (IntEna)	600	33
2	GP Output 1	480	39
3	GP Output 2	240	61
4	GP Input (Trigger)	120	85
5	RxD RS232	60	106
6	TxD RS232	30	120
7	External Power		
8	GND		



Dimensions



Connections

Camera Specifications

	GUPPY F-080B (b/w)	GUPPY F-080C (color)
Image Device	1/3" (Diag. 6mm) progressive scan, SONY IT CCD	
Effective Picture Elements	1034 (H) x 778 (V)	
Picture Size	1034 (H) x 778 (V) (all modes and color formats)	
Cell Size	4.65µm x 4.65µm	
Resolution Depth	8 Bit (12 Bit ADC)	
Lens Mount	C-Mount, CS-Mount (convertable via adapter)	
Digital Interface	IEEE1394a, Single Port	
Transfer Rate	100, 200, 400 Mbit/s	
Frame Rates	up to 30fps	
Gain Control	Manual 0 - 24dB, Auto Gain	
Shutter Speed	20µs ... 67s, Auto Shutter, Level Mode	
External Trigger Shutter	Programmable, Trigger-Level-Controlled Single Trigger, Bulk Trigger, Programmable Trigger Delay	
Smart Features	AGC, AEC, AWB, LUT, 1 progr. Input / 3 progr. Outputs, RS-232 Port, etc.	
Power Requirements	DC 8 - 36V (via IEEE1394 port or HIROSE)	
Power Consumption	Less than 2 Watt (@ 12V DC)	
Dimensions	30mm x 30mm x 47mm (incl. Connectors, without lens)	
Mass	< 50 g (without lens)	
Operating Temperature	+5°C ... + 45°C (non condensing)	
Storage Temperature	-10°C ... + 60°C (non Condensing)	
Regulations	EN 55022, EN61000, EN55024, FCC Class B, DIN ISO 9022, ROHS in preparation	
Options	Board Level Version, Power Out (Hirose), APIs, DirectX, Linux, etc.	