



Guppy F-036

Description

Ultra-compact, inexpensive high contrast VGA camera with HDR mode

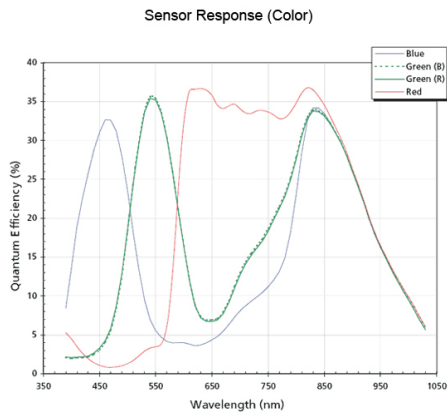
The Guppy F-036B/C is an ultra-compact, inexpensive VGA camera for applications with high contrasts. It is equipped with a CMOS sensor by Micron/Aptina which supports the HDR mode (High Dynamic Range mode). At full resolution, it runs at up to 58 fps. Higher frame rates can be reached by a smaller AOI.

- Micron/Aptina MT9V022 CMOS sensor
- Trigger
 - Edge mode, programmable trigger delay
- Options
 - Various IR cut/pass filters
 - CS-Mount, M12-Mount adapter (M12 only for sensors < 1/2)
 - White medical housing

Specifications

Guppy		F-036	
Interface	IEEE 1394a - 400 Mb/s, 1 port		
Resolution	752 x 480		
Sensor	Micron/Aptina MV022		
Type	CMOS Progressive		
Sensor Size	Type 1/3		
Cell size	6.0		
Lens mount	C		
Max frame rate at full resolution	64 fps		
A/D	10 bit		
On-board FIFO	0 MB		
Output			
Bit depth	8 bit		
Mono modes	Mono8		
Color modes YUV	n/a		
Color modes RGB	n/a		
Raw modes	Raw8		
General purpose inputs/outputs (GPIOs)			
TTL I/Os	1 input, 3 outputs		
Opto-coupled I/Os	0		
RS-232	1		
Power/Mass/Dimensions/Regulations			
Power requirements (DC)	8 V - 36 V		
Power consumption (12 V)	<2 W		
Mass	50 g		
Body Dimensions (L x W x H in mm)	48.2 x 30 x 30 mm incl. connectors		
Regulations	CE, FCC Class B, RoHS		

[Download Guppy technical drawing \(click here\)](#)



Smart features

- Programmable LUT
- Gain
 - Auto/manual
 - Manual gain control: 0 - 12 dB
- Exposure
 - Exposure time: 179 μ s - 979 ms
- Image mirror
- Binning (b/w)
- HDR mode (High Dynamic Range mode)

Applications

The CMOS sensor of the Guppy F-036B/B has no blooming and supports the HDR (High Dynamic Range) mode. For this reason, this FireWire camera is made for applications with intense illumination and high contrasts.

- Surveillance and Security
- Inspection and Control
- Robotics
- Applications with high contrasts