



## Guppy F-036

### Description

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

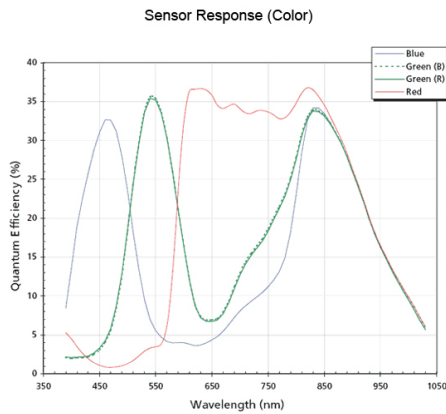
The Guppy F-036B/C is an ultra-compact, inexpensive VGA camera for applications with high contrasts. It is equipped with a CMOS sensor by Micron/Aptina which supports the HDR mode (High Dynamic Range mode). At full resolution, it runs at up to 58 fps. Higher frame rates can be reached by a smaller AOI.

- 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

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