



## Guppy F-036

- 1394a camera
- Lightweight
- Robust design
- Machine vision camera

## 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.

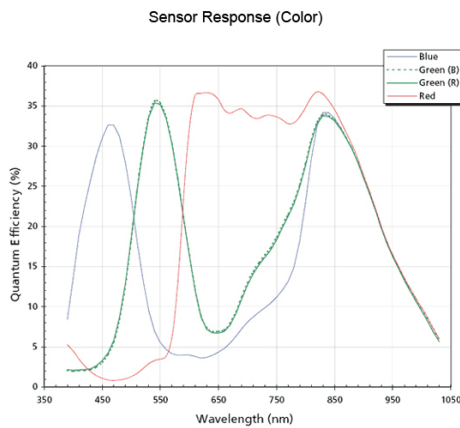
Options

- Various IR cut/pass filters
- White medical housing

## Specifications

Guppy	F-036
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	752 × 480
Sensor	Micron/Aptina MT9V022
Sensor type	CMOS Progressive
Sensor size	Type 1/3
Cell size	6 µm
Lens mount	C
Max frame rate at full resolution	64 fps
ADC	10 bit
On-board FIFO	0 Mbyte
Output	
Bit depth	8 bit
Mono modes	Mono8

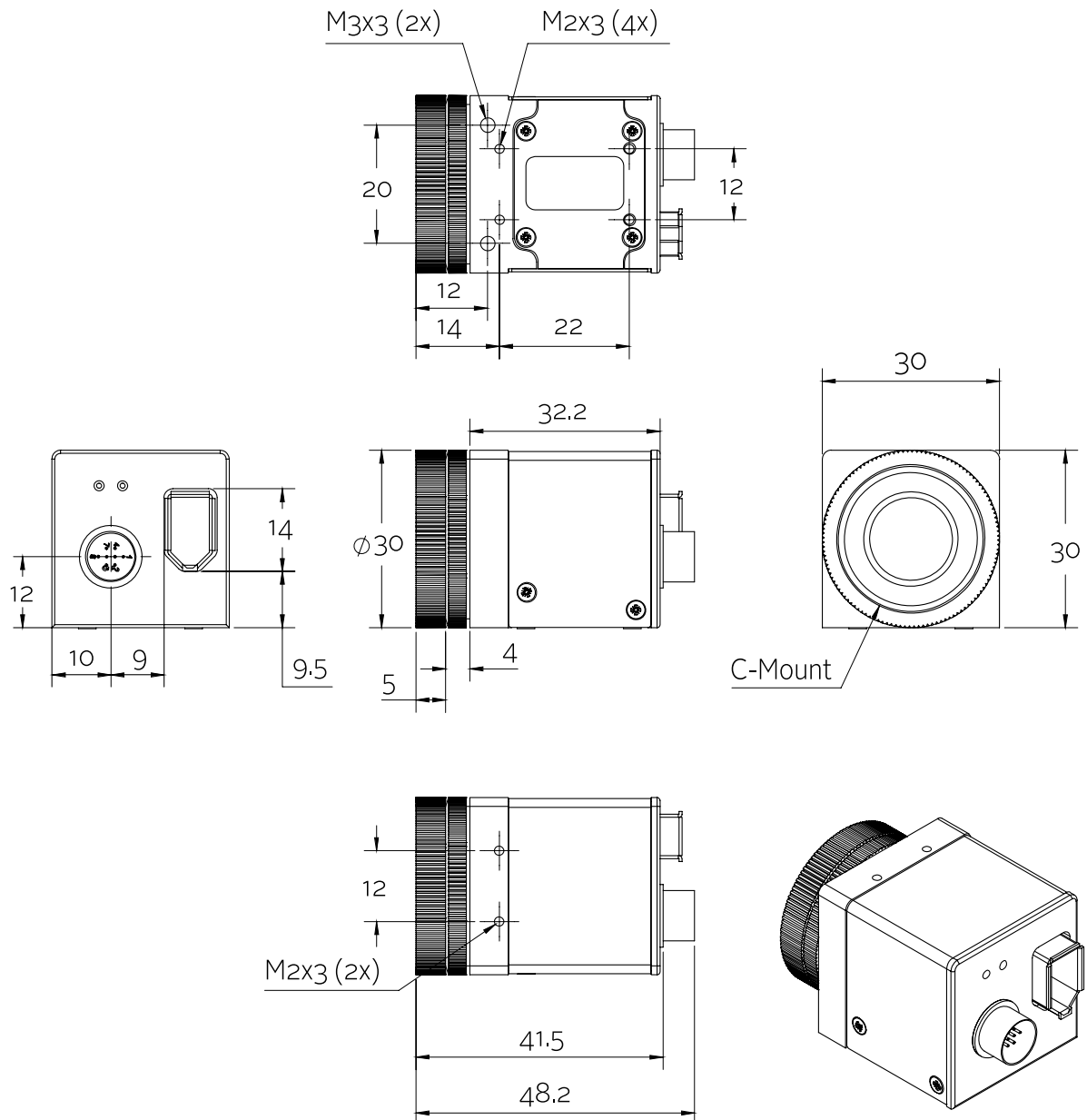
<b>Guppy</b>	<b>F-036</b>
Color modes RGB	n/a
Raw modes	Raw8
<b>General purpose inputs/outputs (GPIOs)</b>	
TTL I/Os	1 input, 3 outputs
RS-232	1
<b>Operating conditions/dimensions</b>	
Power requirements (DC)	8 V - 36 V
Power consumption (@12 V)	<2 W
Mass	50 g
Body dimensions (L × W × H in mm)	48.2 × 30 × 30 mm incl. connectors
Regulations	CE, FCC Class B, RoHS



## Features

- HDR mode (High Dynamic Range mode)
- Reverse X/Y
- LUT (look-up table)
- Binning
- ROI, separate ROI for auto features
- Auto gain (0 to 12 dB)
- Auto exposure (179  $\mu$ s to 979 ms)
- Auto white balance
- Storable user sets

## Technical drawing





## 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