



## Guppy F-036

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

### Description

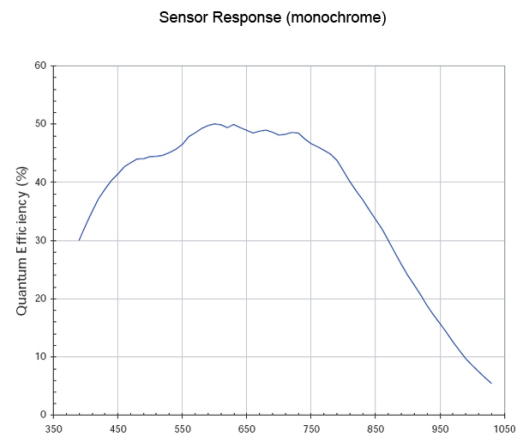
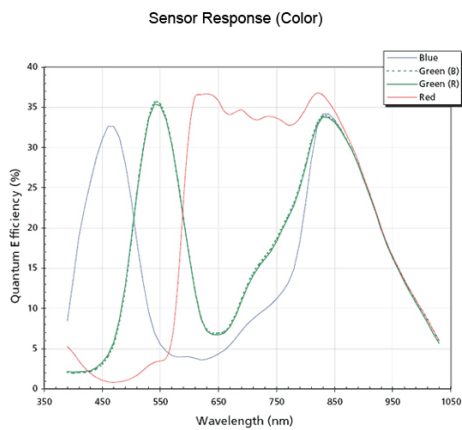
Ultra-compact, inexpensive high contrast VGA camera with HDR mode

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

### Specifications

<b>Guppy</b>	<b>F-036</b>
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	752 (H) × 480 (V)
Sensor	ON Semi MT9V022
Sensor type	CMOS
Cell size	6 μm x 6 μm
Lens mount	C-Mount, CS-Mount
Max frame rate at full resolution	64 fps
ADC	10 bit
Image buffer (RAM)	
	<b>Output</b>
Bit depth	8 bit
Mono modes	Mono8
Color modes RGB	n/a
Raw modes	Raw8
	<b>General purpose inputs/outputs (GPIOs)</b>
TTL I/Os	1 input, 3 outputs

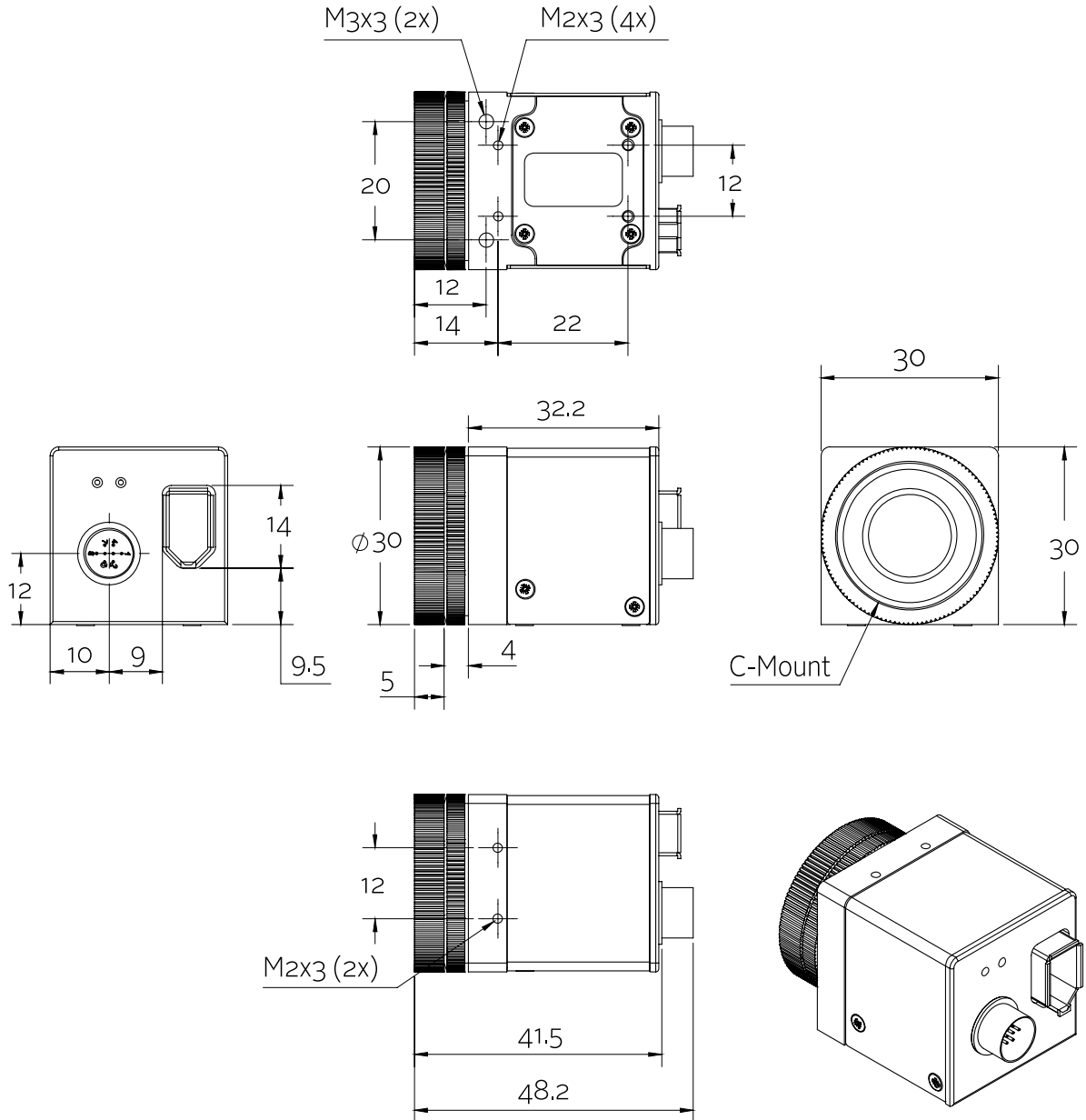
Guppy	F-036
RS-232	1
Operating conditions/dimensions	
Operating temperature	+5 °C to +45 °C
Power requirements (DC)	8 V to 36 V
Power consumption (@12 V)	<2 W
Mass	50 g
Body dimensions (L × W × H in mm)	48.2 × 30 × 30 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC



## Features

- High Dynamic Range (HDR) mode
- Reverse X/Y
- Look-up table (LUT)
- Binning
- Area of interest (AOI), separate AOI 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/F-036C has no blooming and supports the High Dynamic Range (HDR) 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