



Guppy F-036



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

Description

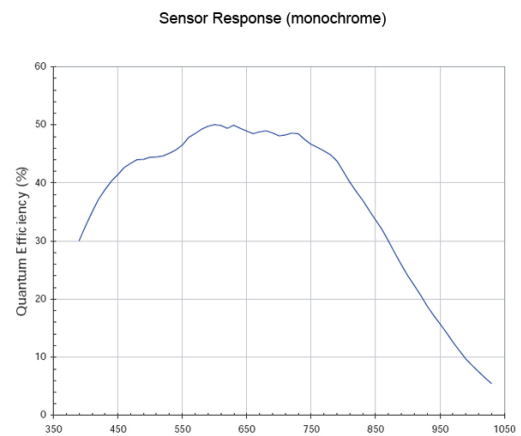
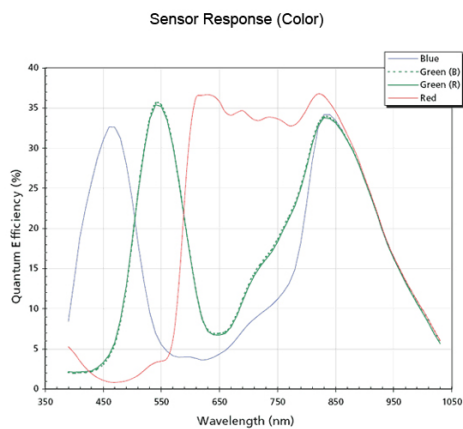
Ultra-compact, inexpensive high contrast VGA camera with HDR mode

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

Guppy	F-036
インターフェイス	IEEE 1394a - 400 Mb/s, 1 port
解像度	752 (H) × 480 (V)
センサー	ON Semi MT9V022
Sensor type	CMOS
センサーサイズ	Type 1/3
ピクセルサイズ	6 μm x 6 μm
レンズマウント (標準搭載)	C-Mount, CS-Mount
フレームレート (フル解像度)	64 fps
ADC	10 bit
Image buffer (RAM)	
	Output
Bit depth	8 bit
ビデオフォーマット(Mono)	Mono8
ビデオフォーマット(RGB)	n/a
ビデオフォーマット(Raw)	Raw8
General purpose inputs/outputs (GPIOs)	

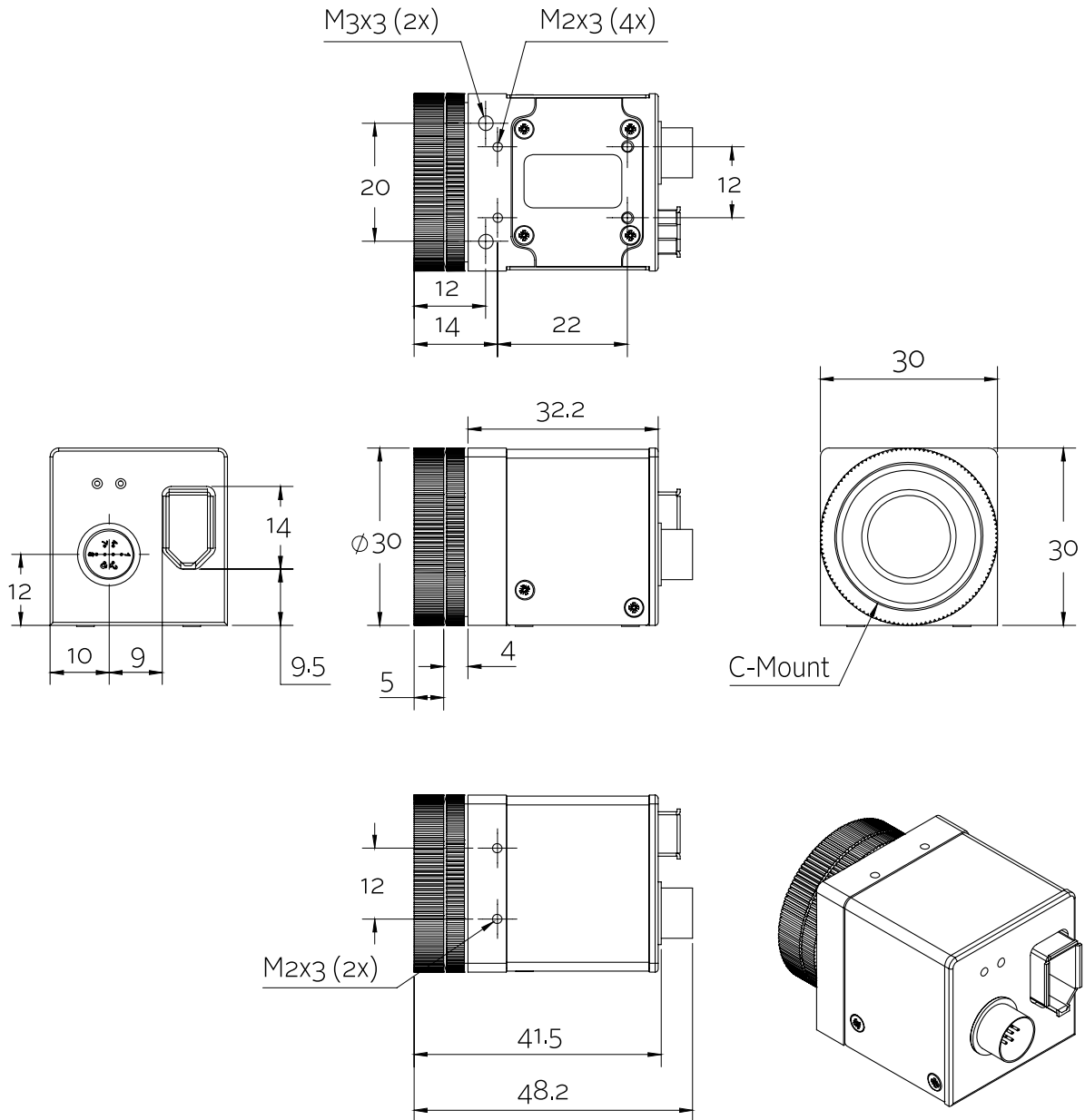
Guppy	F-036
TTL I/Os	1 input, 3 outputs
RS232	1
Operating conditions/dimensions	
Operating temperature	+5 °C to +45 °C
Power requirements (DC)	8 V to 36 V
消費電力	<2 W (@ 12 VDC)
Mass	50 g
Body dimensions (L × W × H in mm)	48.2 × 30 × 30 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU (RoHS); FCC Class B



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 μs 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