







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

Lightweight and robust

Guppy - Ultra-compact camera with IEEE 1394a interface

Guppy F-036 with ON Semi MT9V022 runs 64.0 frames per second at 0.4 MP resolution.

Guppy is an ultra-compact, inexpensive IEEE 1394a VGA machine vision camera. This reliable mainstream FireWire camera addresses a wide range of imaging applications. With its ultra-compact, small housing, Guppy is the perfect fit for all applications with space constraints.

Easy software integration with Allied Vision's Vimba Suite and compatibility to the most popular third party image-processing libraries.

See the Customization and OEM Solutions webpage for hardware options.



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Interface IEEE 1394a - 400 Mb/s, 1 port

Resolution 752 (H) \times 480 (V)

Sensor ON Semi MT9V022

Sensor type CMOS

Sensor size Type 1/3

Pixel size $6 \mu m \times 6 \mu m$

Lens mount (default) C-Mount, CS-Mount

Max. frame rate at full resolution 64 fps

ADC 10 Bit

Output

Bit depth 8-bit

Monochrome pixel formats Mono8

RGB color pixel formats n/a

Raw pixel formats Raw8

General purpose inputs/outputs (GPIOs)

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

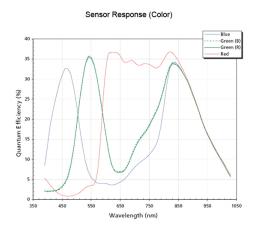
Power consumption <2 W (@ 12 VDC)

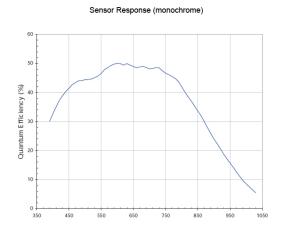
Mass 50 g

Body dimensions (L \times W \times H in mm) 48.2 \times 30 \times 30 (including connectors)



Quantum efficiency





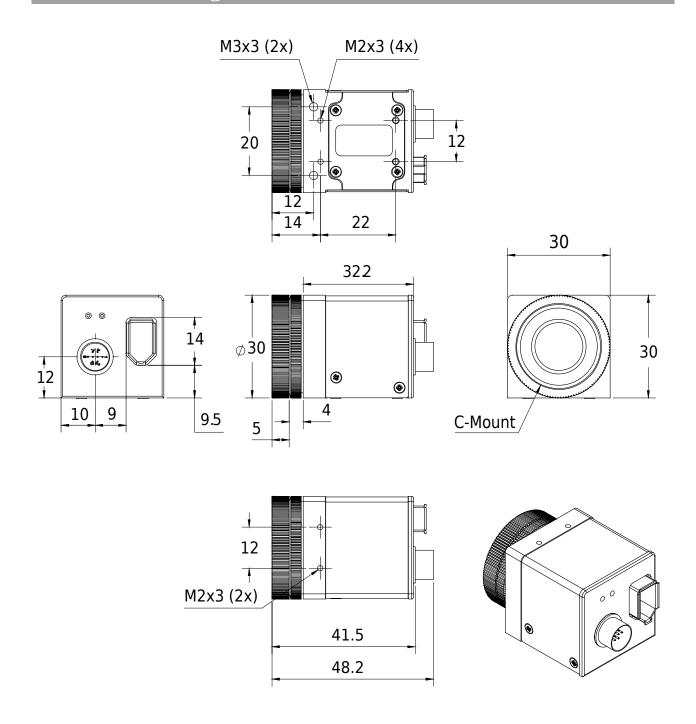


Features

- 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 SecurityInspection and Control
- Robotics
- ITS/Traffic monitoring
- Applications with high contrasts