Allied Vision

FireWire

Guppy
F-033

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

Lightweight and robust

Guppy - Ultra-compact camera with IEEE 1394a interface

Guppy F-033 with Sony ICX424 runs 58 frames per second at 0.3 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.

Allied Vision

Specifications

Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	656 (H) × 494 (V)
Sensor	Sony ICX424
Sensor type	CCD Progressive
Sensor size	Type 1/3
Pixel size	7.4 µm × 7.4 µm
Lens mount (default)	C-Mount, CS-Mount
Max. frame rate at full resolution	58 fps
ADC	10 Bit

Output

Bit depth	8-bit
Monochrome pixel formats	Mono8
RGB color pixel formats	n/a
Raw color pixel formats (Bayer)	Raw8

General purpose inputs/outputs (GPIOs)

TTL I/Os	1 input, 3 outputs
RS232	1

Operating conditions/dimensions

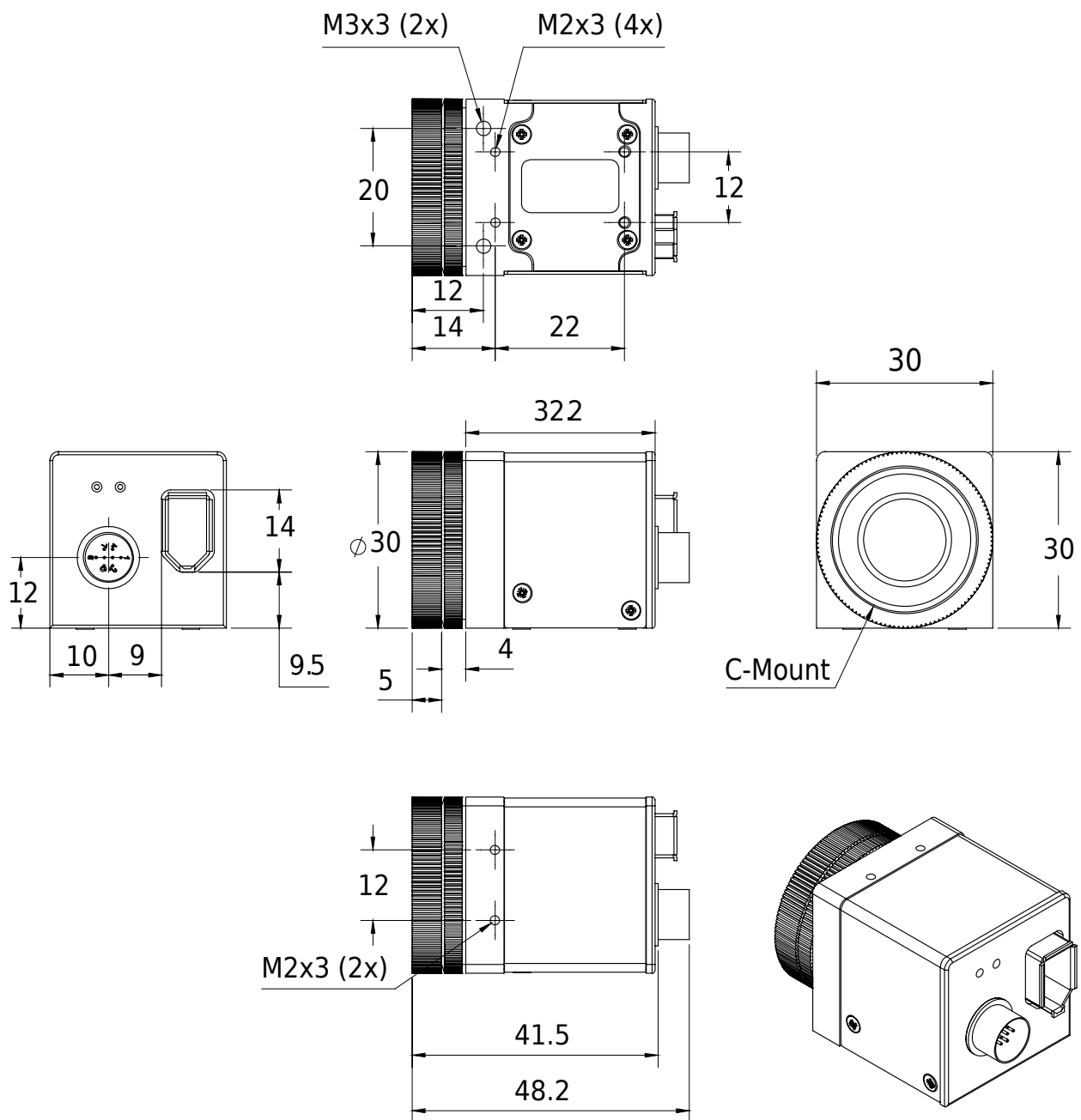|	
Operating temperature	+5 °C to +45 °C
Power requirements (DC)	8 V to 36 V
Power consumption	<2 W (@ 12 VDC)
Mass	50 g
Body dimensions (L × W × H in mm)	48.2 × 30 × 30 (including connectors)
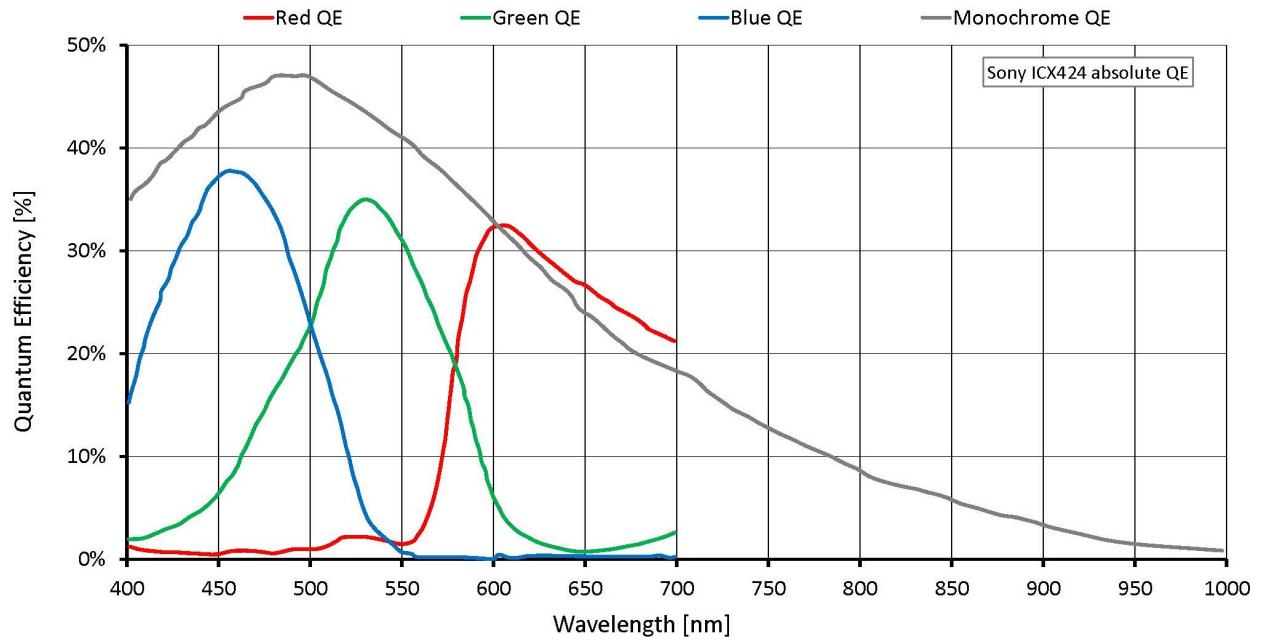
- Look-up table (LUT)
- Area of interest (AOI), separate AOI for auto features
- Auto gain (0 to 24 dB)
- Auto exposure (129 µs to 67 s)
- Auto white balance
- Storable user sets

M3x3 (2x)   M2x3 (4x)

20

12

12

14   22

322

14

⌀30

12

10   9

9.5

5   4

C-Mount

30

30

12

M2x3 (2x)

41.5

48.2

Applications

This inexpensive, reliable mainstream VGA machine vision camera addresses a wide range of imaging applications. With its ultra-compact, small housing, the Guppy F-033B/F-033C is the perfect fit for all applications with space constraints.

- Machine vision
- Robotics (robust housing, lightweight camera)
- Quality control
- Ophthalmology
- Semiconductor inspection
- Industrial inspection
- ITS/Traffic monitoring