



Guppy F-038B NIR

- IEEE 1394a camera
- interlaced NIR sensor
- Lightweight
- Robust design

Sensitive machine vision camera, 0.4 Megapixel, interlaced sensor

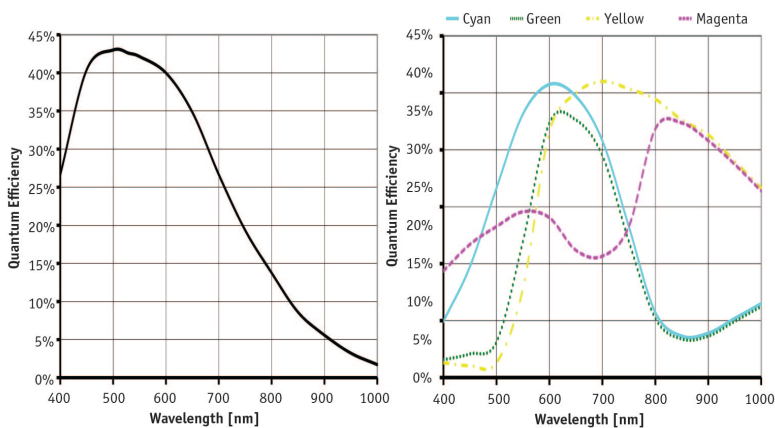
The Guppy F-038B NIR is equipped with a sensitive interlaced NIR sensor - which makes the move from analog to digital machine vision cameras very easy. At full resolution, it runs at up to 30 frames per second. Higher frame rates can be reached by a smaller area of interest (AOI).

Specifications

Guppy	F-038B NIR
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	768 × 492
Sensor	Sony ICX428
Sensor type	CCD Interlaced
Sensor size	Type 1/2
Pixel size	8.4 μm × 9.8 μm
Lens mount (default)	C-Mount, CS-Mount
Max. frame rate at full resolution	30 fps
ADC	12 Bit
Image buffer (RAM)	
	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

Guppy	F-038B NIR
	Operating conditions/dimensions
Operating temperature	+5 °C to +45 °C
Power requirements (DC)	8 V - 36 V
Power consumption	<2 W (@ 12 VDC)
Mass	50 g
Body dimensions (L × W × H in mm)	48.2 × 30 × 30 mm incl. connectors
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class B

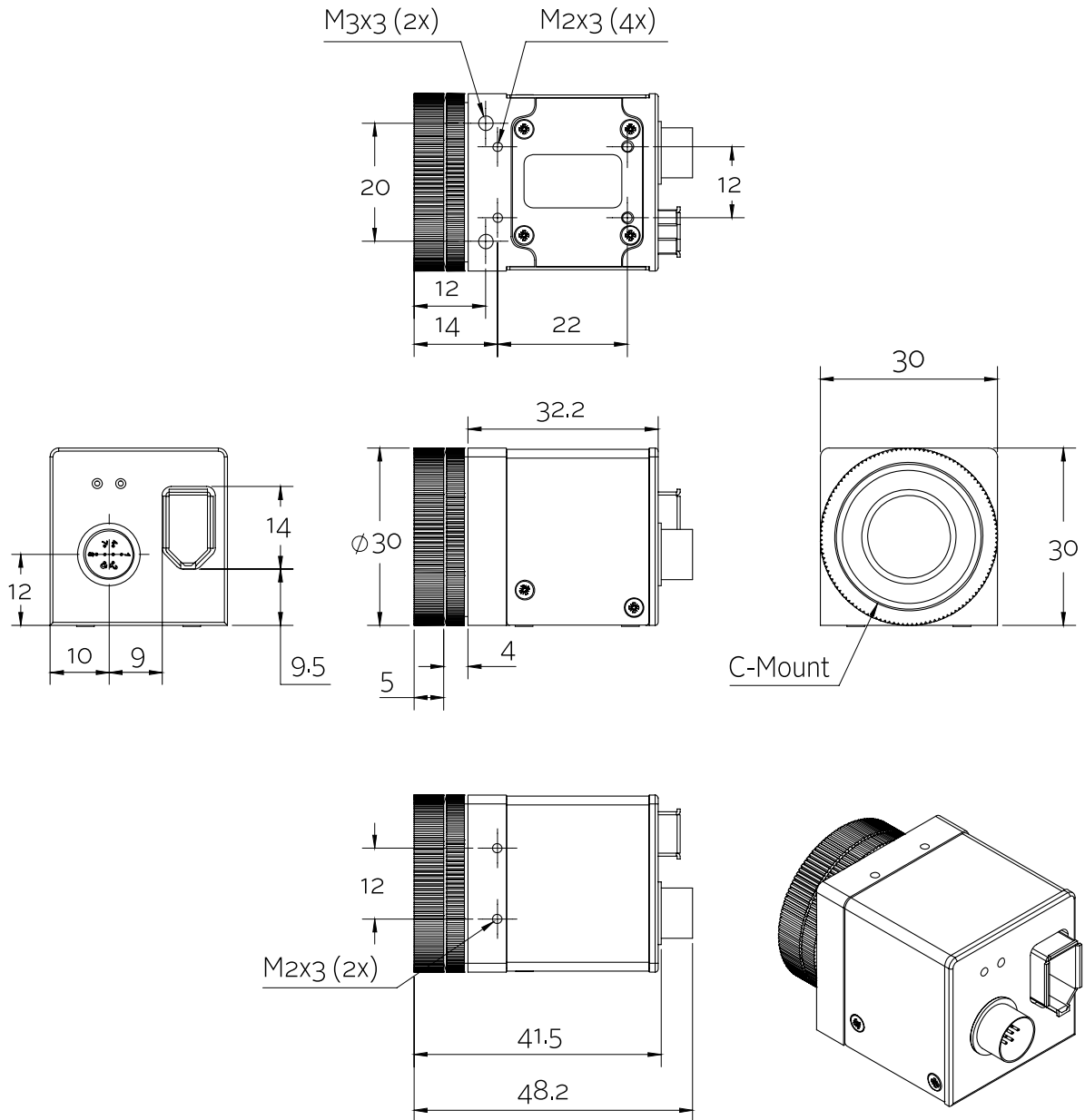
Quantum efficiency



Features

- Look-up table (LUT)
- Area of interest (AOI), separate AOI for auto features
- Auto gain (0 to 24 dB)
- Auto exposure (62 μ s to 67 s)
- Auto white balance
- Storable user sets

Technical drawing





Applications

Thanks to its sensitive interlaced sensor, the Guppy F-038B NIR is a very cost-effective, easy solution for the switch from analog to digital machine vision cameras. The camera has enhanced near infrared sensitivity.

- Machine vision
- Quality control
- Robotics
- Industrial inspection
- Security and surveillance
- ITS/Traffic monitoring