



## Marlin

### F-080



- 1394a camera
- Modular design
- Robust housing
- Machine vision camera

## Description

Compact, flexible, modular IEEE 1394 XGA C-Mount camera

The Marlin F-080B/C is equipped with a sensitive SONY CCD sensor. It runs at 20.08 fps (full resolution, Format\_7). The **Marlin F-080B/C-30** variant offers 30 fps (at a slight expense in image quality). Higher frame rates can be reached by a smaller AOI and binning.

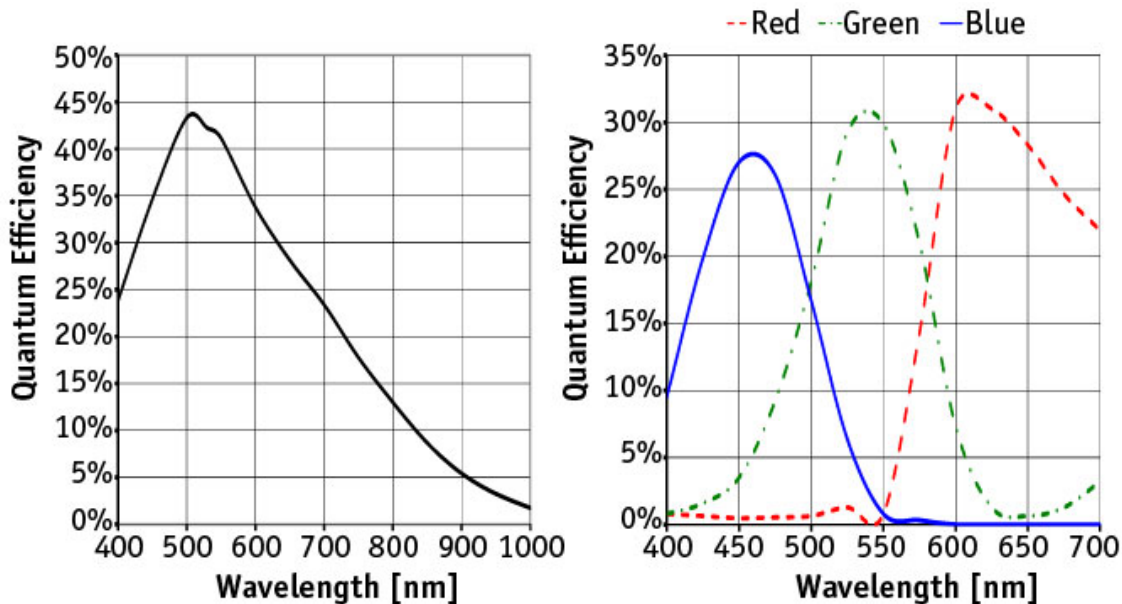
### Options

- Various IR cut/pass filter, CS-Mount
- Angled head, lateral cable exit, white medical housing

## Specifications

Marlin	F-080
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	1032 × 778
Sensor	Sony ICX204
Sensor type	CCD Progressive
Cell size	4.65 µm
Lens mount	C-Mount
Max frame rate at full resolution	20 fps
ADC	12 bit
On-board FIFO	8 Mbyte
Output	
Bit depth	8-10 bit
Mono modes	Mono8, Mono16
Color modes RGB	RGB8

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Raw modes	Raw8
<b>General purpose inputs/outputs (GPIOs)</b>	
Opto-isolated I/Os	2 inputs, 2 outputs
RS-232	1
<b>Operating conditions/dimensions</b>	
Power requirements (DC)	8 V - 36 V
Power consumption (@12 V)	<3 W
Mass	<120 g
Body dimensions (L × W × H in mm)	72 × 44 × 29 mm including connectors, w/o tripod and lens
Regulations	CE, FCC Class B, RoHS



## Features

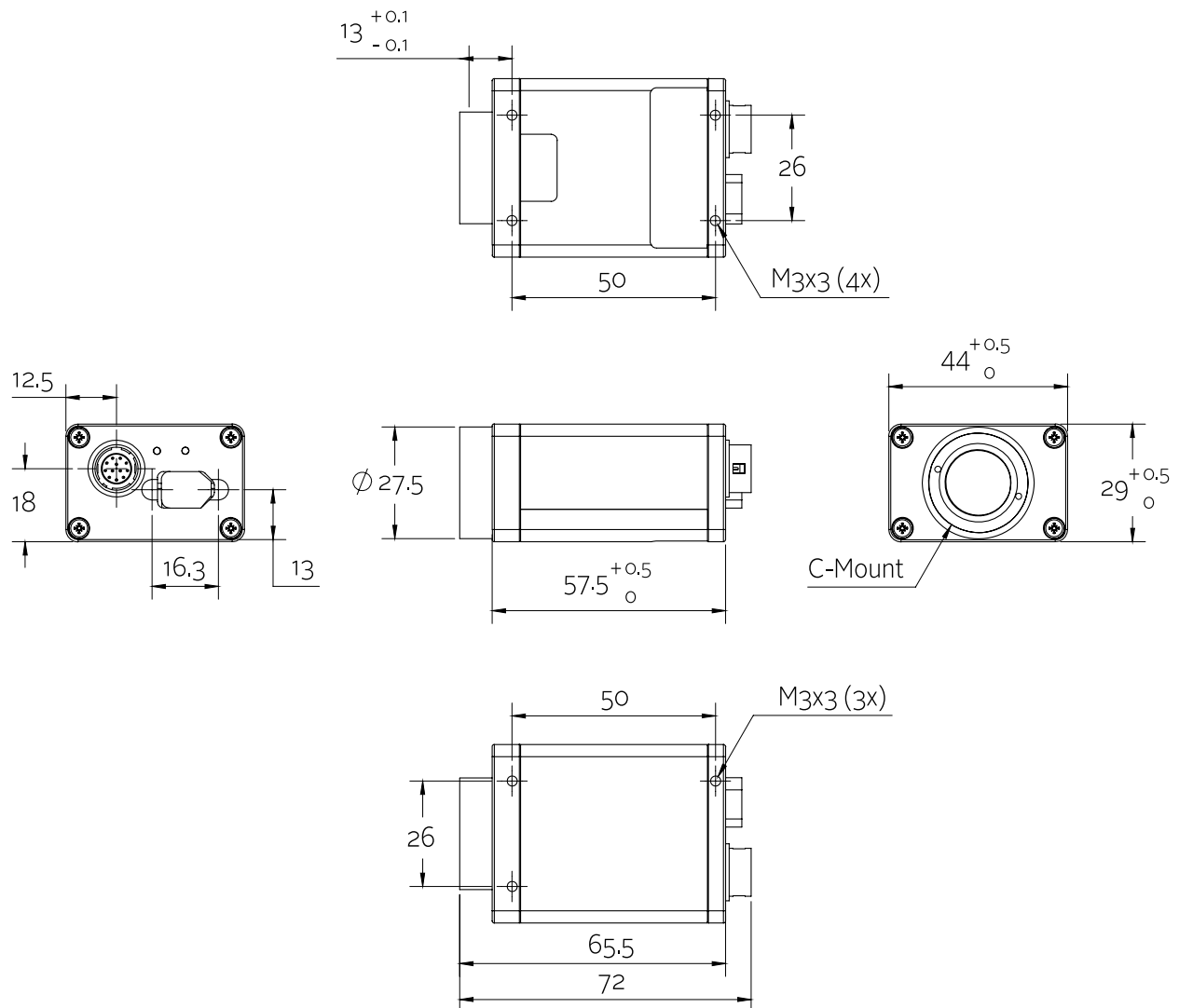
Marlin cameras are equipped with many useful real-time image pre-processing functions. They are performed by the FPGA inside the camera – with no additional CPU load on the host, so that an inexpensive system is sufficient.

- Programmable LUT, white balance, hue, saturation
- Debayering
- Gain
  - Auto/manual
  - Manual gain control: 0 - 24 dB



- Exposure
  - Auto/manual
  - Exposure time: 50  $\mu$ s - 67 s
- Color correction
- Shading correction
- Sub-sampling, 2x binning (b/w)
- AOI (with speed increase)
- Sequence mode - changes the image settings on the fly
- Image mirror
- Deferred image transport
- SIS (secure image signature, time stamp for trigger, frame count etc.)
- Storable user settings

## Technical drawing





## Applications

With its modular and flexible design and the real-time pre-processing functions, this Marlin camera fits for many applications:

- Machine vision
- Quality control
- Semiconductor inspection
- Industrial inspection
- ... and many more