



# Marlin F-046



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

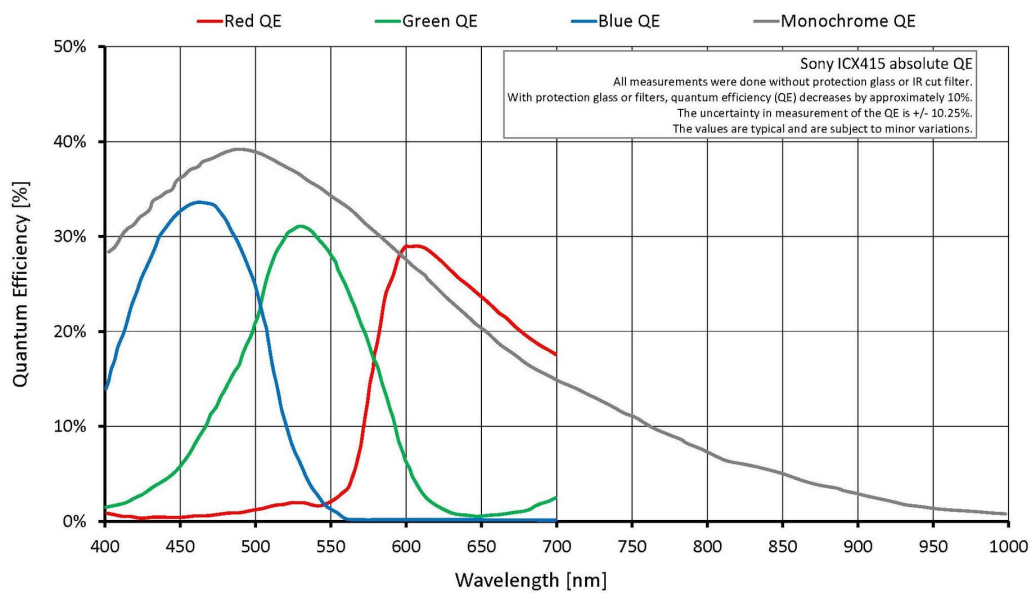
Compact, flexible, modular IEEE 1394a Wide VGA C-Mount camera

The Marlin F-046B/F-046C is equipped with a very sensitive Sony ICX415 CCD sensor. It runs at 52.71 frames per second at full resolution and Format\_7. Higher frame rates can be reached by using a smaller area of interest (AOI) and binning.

## Specifications

Marlin	F-046
インターフェイス	IEEE 1394a - 400 Mb/s, 1 port
解像度	780 (H) × 582 (V)
センサー	Sony ICX415
Sensor type	CCD Progressive
センサーサイズ	Type 1/2
ピクセルサイズ	8.3 μm × 8.3 μm
レンズマウント (標準搭載)	C-Mount
フレームレート (フル解像度)	52 fps
ADC	12 bit
Image buffer (RAM)	8 MByte
Output	
Bit depth	8-10 Bit
ビデオフォーマット(Mono)	Mono8, Mono16
ビデオフォーマット(RGB)	RGB8
ビデオフォーマット(Raw)	Raw8
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	2 inputs, 2 outputs
RS232	1
Operating conditions/dimensions	
Operating temperature	+5 °C to +45 °C

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Power requirements (DC)	8 V to 36 V
消費電力	<3 W (@ 12 VDC)
Mass	<120 g
Body dimensions (L × W × H in mm)	72 × 44 × 29 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class B



## 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 look-up table (LUT), white balance, hue, saturation
- Debayering
- Gain
  - Auto/manual
  - Manual gain control: 0 to 24 dB
- Exposure
  - Auto/manual
  - Exposure time: 32 μs to 67 s
- Color correction
- Shading correction



- Sub-sampling, 2x binning (b/w)
- Area of interest (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)
- 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