



Marlin F-201



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

Description

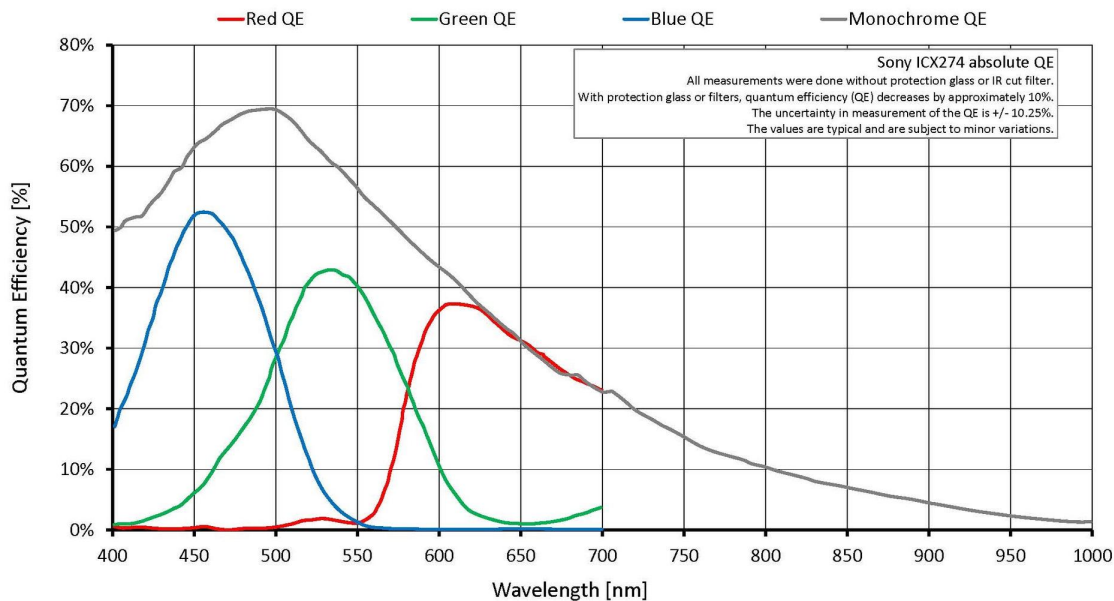
Compact, flexible, modular IEEE 1394a 2 Megapixel C-Mount camera

The Marlin F-201B/F-201C is equipped with a highly sensitive Sony ICX274 CCD sensor. It runs at 12.5 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-201 |
| インターフェイス | IEEE 1394a - 400 Mb/s, 1 port |
| 解像度 | 1628 (H) × 1236 (V) |
| センサー | Sony ICX274 |
| Sensor type | CCD Progressive |
| センサーサイズ | Type 1/1.8 |
| ピクセルサイズ | 4.4 μ m × 4.4 μ m |
| 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) | 12 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 |

| | |
|-----------------------------------|--|
| Marlin | F-201 |
| RS232 | 1 |
| Operating conditions/dimensions | |
| Operating temperature | +5 °C to +45 °C |
| 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 × 44x 29 (including connectors) |
| Regulations | CE: 2014/30/EU (EMC), 2011/65/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: 59 μ s 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
- Industrial inspection
- Intelligent traffic systems