



Marlin F-033

Description

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

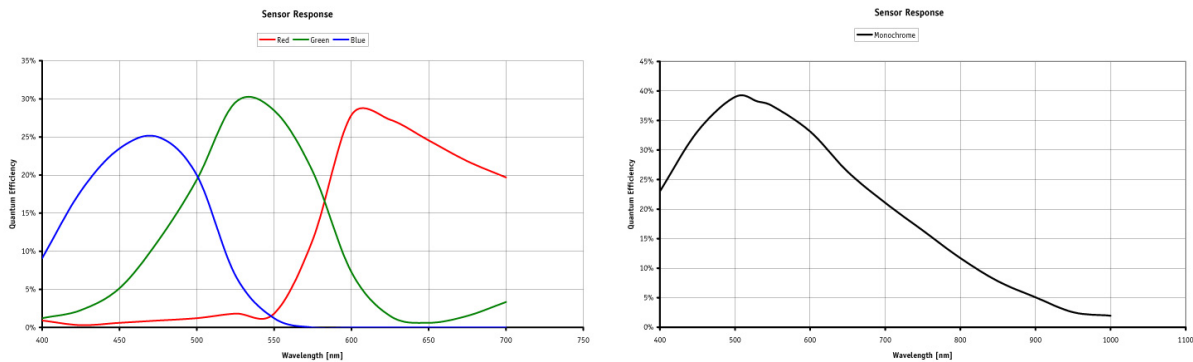
The Marlin F-033B/C is equipped with a sensitive SONY CCD sensor. It runs at 73.06 fps (full resolution, Format_7). Higher frame rates can be reached by a smaller AOI and binning.

- Sony ICX414 (removable IR cut filter)
- Trigger
 - Edge mode, trigger level control, single trigger, bulk trigger, programmable trigger delay
- Options
 - Various IR cut/pass filters
 - CS-Mount
 - Angled head
 - Lateral cable exit
 - White medical housing

Specifications

Marlin		F-033	
Interface	IEEE 1394a - 400 Mb/s, 1 port		
Resolution	656 x 494		
Sensor	Sony ICX414		
Type	CCD Progressive		
Sensor Size	Type 1/2		
Cell size	9.9 µm		
Lens mount	C		
Max frame rate at full resolution	73 fps		
A/D	12 bit		
On-board FIFO	8 MB		
Output			
Bit depth	8-10 bit		
Mono modes	Mono8, Mono16		
Color modes YUV	YUV411, YUV422		
Color modes RGB	RGB8		
Raw modes	Raw8		
General purpose inputs/outputs (GPIOs)			
TTL I/Os	0		
Opto-coupled I/Os	2 inputs, 2 outputs		
RS-232	1		
Power/Mass/Dimensions/Regulations			
Power requirements (DC)	8 V - 36 V		
Power consumption (12 V)	<3 W		
Mass	<120 g		
Body Dimensions (L x W x H in mm)	72 x 44x 29 mm including connectors, w/o tripod and lens		
Regulations	CE, FCC Class B, RoHS		

[Download Marlin technical drawing \(click here\)](#)



Smart 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: 32 μ 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

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