



Marlin F-131

Description

IEEE 1394 CMOS camera with IBIS5 CMOS sensor

The Marlin F-0131B is equipped with the global shutter CMOS sensor IBIS5. It runs at 25 fps (full resolution, Format_7). Higher frame rates can be reached by a smaller AOI and sub-sampling. The F-0131B is only available in monochrome, optionally with enhanced NIR sensitivity (**F-0131B NIR**).

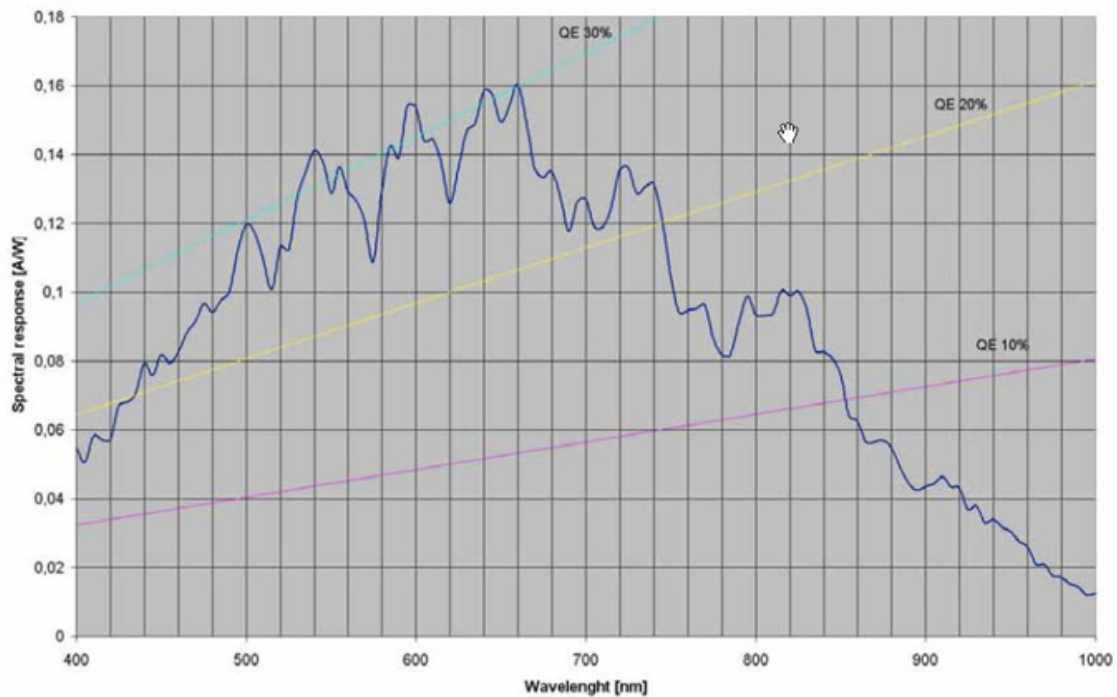
- Cypress IBIS5B/IBIS5B NIR
- Trigger
 - Edge mode, trigger level control, single trigger, bulk trigger, programmable trigger delay
- Options
 - Various IR cut/pass filters
 - CS-Mount
 - Angled head
 - Lateral cable exit
 - White medical housing

Specifications

Marlin F-131	
Interface	IEEE 1394a - 400 Mb/s, 1 port
Resolution	1280 x 1024
Sensor	Cypress IBIS5B
Type	CMOS Progressive
Sensor Size	Type 2/3
Cell size	6.7 µm
Lens mount	C
Max frame rate at full resolution	25 fps
A/D	10 bit
On-board FIFO	8 MB
Output	
Bit depth	8 bit
Mono modes	Mono8
Color modes YUV	-
Color modes RGB	-
Raw modes	-
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 \(click here\)](#)

Sensor Response (monochrome)



Smart features

Due to its CMOS sensor, the F-131B functions differ from the other Marlin cameras:

- DSNU (dark signal non uniformity) correction
- Blemish correction
- Shading correction
- HDR mode (High dynamic range mode)
- Sub-sampling
- AOI (with speed increase)
- Gain
 - Manual gain control: 0 - 16 dB
- Exposure
 - Exposure time: 10 μ s - 67 s
- Image mirror
- Deferred image transport
- SIS (secure image signature, time stamp for trigger, frame count etc.)
- Storable user settings

Applications

The Marlin F-131B is particularly suited for applications with high contrasts (e.g. shining and reflecting surfaces): Its IBIS5 CMOS sensor has no blooming and additionally features the HDR (High dynamic range) mode. The Marlin F-131B NIR provides enhanced near infrared sensitivity.

- Industrial inspection
- Scientific
- Security and Surveillance
- Surface inspection
- Welding applications