



Stingray F-201

Description

High performance UXGA (2 Megapixel) camera, 1394b

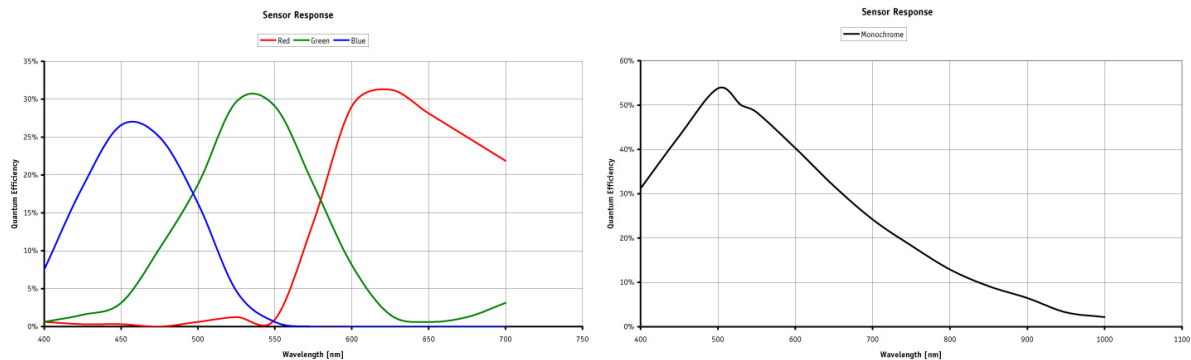
The Stingray F-201B/C is equipped with the SONY Super HAD CCD ICX 274 sensor. At full resolution, it runs at 14 fps. Higher frame rates can be reached by a smaller AOI, binning (b/w) or sub-sampling.

- Sony ICX274
- Trigger
 - Programmable, trigger level control, single trigger, bulk trigger, programmable trigger delay
- Options
 - 1394b connectors: 2 x copper (daisy chain) or 1 x GOF, 1 x copper
 - Various IR cut/pass filters, removed cover glass
 - Various lens mounts on request
 - Hirose power: out
 - Angled head
 - White medical housing
 - Compact housing version
 - Board level versions on request

Specifications

Stingray		F-201
Interface	IEEE 1394b - 800 Mb/s, 2 ports, daisy chain, fiber optic (GOF) optional	
Resolution	1624 x 1234	
Sensor	Sony ICX274	
Type	CCD Progressive	
Sensor Size	Type 1/1.8	
Cell size	4.4 μm	
Lens mount	C	
Max frame rate at full resolution	14 fps	
A/D	14 bit	
On-board FIFO	32 MB	
	Output	
Bit depth	8-14 bit	
Mono modes	Mono8, Mono12, Mono16	
Color modes YUV	YUV411, YUV422	
Color modes RGB	RGB8	
Raw modes	Raw8, Raw12, Raw16	
	General purpose inputs/outputs (GPIOs)	
TTL I/Os	0	
Opto-coupled I/Os	2 inputs, 4 outputs	
RS-232	1	
	Power/Mass/Dimensions/Regulations	
Power requirements (DC)	8 V - 36 V	
Power consumption (12 V)	<4 W	
Mass	92 g	
Body Dimensions (L x W x H in mm)	72.9 x 44 x 29 mm including connectors, w/o tripod and lens	
Regulations	CE, FCC Class B, RoHS	

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



Smart features

Stingray cameras include numerous real-time image pre-processing functions. All below mentioned functions are performed by the FPGA inside the camera – with no additional CPU load and thus an inexpensive host computer.

- AOI (true partial scan), separate AOI for auto features
- Programmable LUT, white balance, hue, saturation
- Debayering
- Gain
 - Auto/manual
 - Manual gain control: 0 - 24.4 dB
- Exposure
 - Auto/manual
 - Exposure time: 48 μ s - 67 s
- Color correction
- Shading correction
- High SNR mode (up to 24 dB better signal-to-noise ratio)
- Local color anti-aliasing
- Sub-sampling, 2x – 8x binning
- Low noise binning mode
- Defect pixel correction
- Sequence mode (changes the camera settings on the fly)
- Image mirror
- Deferred image transport
- SIS (secure image signature, time stamp for trigger, frame count etc.)
- Storable user settings

The Technical Manual of the Stingray contains detailed descriptions of all functions.

Applications

The Stingray is a high performance UXGA (2 Megapixel) 1394b camera with excellent image quality. Amongst others, this camera is suitable for:

- Industrial inspection and automation
- Logistics
- Science and research
- Intelligent traffic systems
- Healthcare and medical (white housing available)
- Multimedia, entertainment and sports
- ... and many more

Additionally, it is ideally suited for:

- Demanding OEM camera applications (board level versions with separate sensor board available on request)
- Daisy chaining (two copper connectors)
- Long cables - 400 meters and more without additional repeaters (glass optical fiber version: Stingray F-201B/C fiber)