

// ENHANCED

Stingray – Smart Modularity



The Stingray offers a particularly wide range of functions and image optimization options – for example, shading correction and low-noise binning mode. Thanks to its modular and flexible design, it is a particularly versatile high-performance camera for a wide range of applications. It is also available in board level versions.

Key facts

- // VGA to 5 Megapixels
- // Sony CCD sensors
- // Up to 84 fps



Benefits and features

- // Daisy chain
- // Optocoupled I/Os, RS232
- // Numerous options (mount and filter options)
- // Housing options: board level, angled heads
- // Sequence mode
- // Shading correction
- // Low-noise binning mode, high SNR mode
- // Look-up table
- // Binning, decimation
- // Programmable trigger delay

// SPECIFICATIONS – OUR CAMERAS AT A GLANCE

Stingray



Family-specific:

Interface	IEEE 1394b - 800 Mb/s, 2 ports
Operating temperature	+5 °C to +45 °C (ambient)
Power requirements	DC 8 V to 36 V via IEEE 1394b or Hirose
Power consumption	typ. < 4 W @ 12 V DC
I/Os	1 in, 3 out, opto-coupled
Dimensions (L x W x H)	72.9 x 44 x 29 mm incl. connectors
Regulations	CE, FCC Class B, RoHS (2011/65/EU)

Model-specific:

	F-033	F-046	F-080	F-125
Sensor	Sony ICX414	Sony ICX415	Sony ICX204	Sony ICX445
Resolution	656 x 492	780 x 580	1032 x 776	1292 x 964
Megapixels	0.3	0.5	0.8	1.2
Sensor type	1/2 CCD	1/2 CCD	1/3 CCD	1/3 CCD
Max. frame rate	84 fps	61 fps	31 fps	30 fps
Cell size	9.9 µm	8.3 µm	4.65 µm	3.75 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no

Model-specific:

	F-145	F-146	F-201	F-504
Sensor	Sony ICX285	Sony ICX267	Sony ICX274	Sony ICX655
Resolution	1388 x 1038	1388 x 1038	1624 x 1234	2452 x 2056
Megapixels	1.4	1.4	2	5
Sensor type	2/3 CCD	1/2 CCD	1/1.8 CCD	2/3 CCD
Max. frame rate	16 fps	15 fps	14 fps	9 fps
Cell size	6.45 µm	4.65 µm	4.4 µm	3.45 µm
Standard mount	C-Mount	C-Mount	C-Mount	C-Mount
Mono/color/NIR variant	yes/yes/no	yes/yes/no	yes/yes/no	yes/yes/no

Options:

Modular concept

- // Various IR cut/pass filters
- // Hirose power: out
- // CS-Mount, F-Mount
- // Angled head
- // White medical housing

Board level versions

- // Board level versions available