



# Stingray

## F-080



- Versatile XGA camera
- Advanced feature set
- Many variants
- Excellent image quality

## Description

IEEE 1394b XGA camera, Sony ICX204 sensor

The Stingray F-080B/F-080C is equipped with a very sensitive Sony CCD sensor. At full resolution, this IEEE 1394b camera runs at 31 frames per second. Higher frame rates can be reached by using a smaller area of interest (AOI), binning (b/w) or sub-sampling.

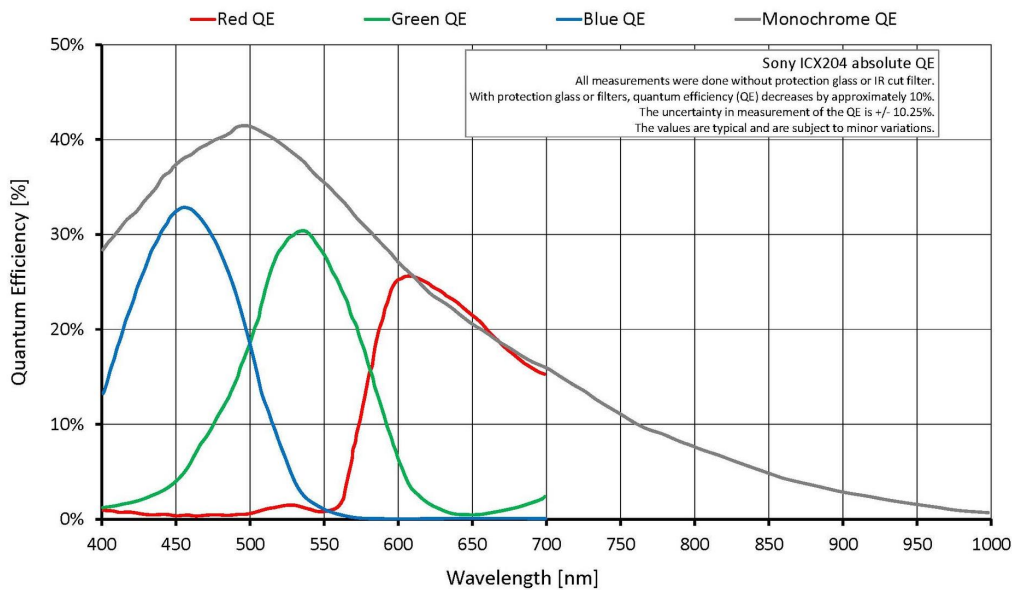
Options:

- IEEE 1394b connectors: 2 x copper (daisy chain), Hirose power: out
- Various IR cut/pass filters, various lens mounts
- Angled head, board level version, white medical housing

## Specifications

Stingray	F-080
Interface	IEEE 1394b - 800 Mb/s, 2 ports, daisy chain
Resolution	1032 (H) × 776 (V)
Sensor	Sony ICX204
Sensor type	CCD Progressive
Cell size	4.65 μm x 4.65 μm
Lens mount	C-Mount
Max frame rate at full resolution	31 fps
ADC	14 bit
Image buffer (RAM)	Up to 128 MByte
<b>Output</b>	
Bit depth	8-14 bit

Stingray	F-080
Mono modes	Mono8, Mono12, Mono16
Color modes RGB	RGB8
Raw modes	Raw8, Raw12, Raw16
<b>General purpose inputs/outputs (GPIOs)</b>	
Opto-isolated I/Os	2 inputs, 4 outputs
RS-232	1
<b>Operating conditions/dimensions</b>	
Operating temperature	+5 °C to +45 °C
Power requirements (DC)	8 V to 36 V
Power consumption (@12 V)	<4 W
Mass	92 g
Body dimensions (L × W × H in mm)	72.9 × 44 × 29 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



## Features

- High SNR mode (up to 24 dB better signal-to-noise ratio)
- Low-noise binning mode
- Shading correction
- Defect pixel correction
- Area of interest (AOI), separate AOI for auto features
- Binning
- Decimation



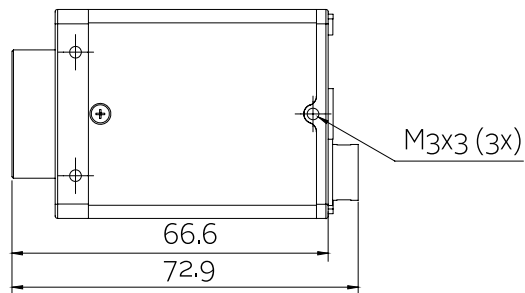
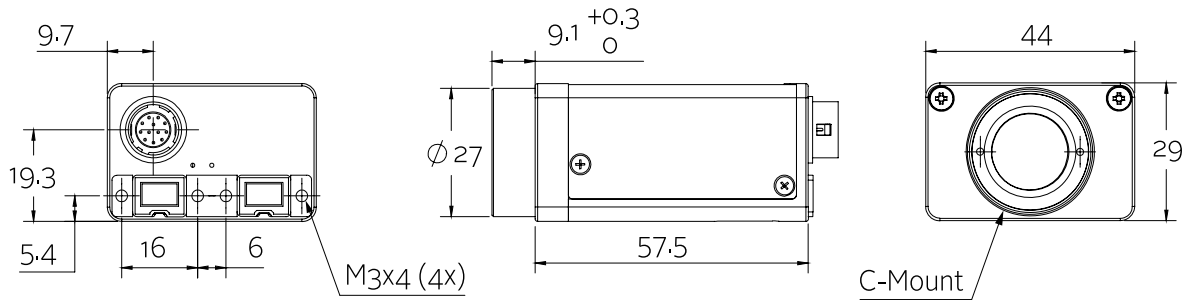
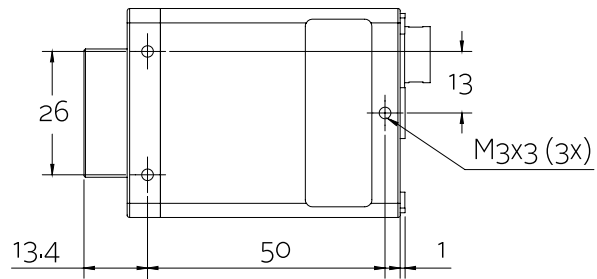
- Auto gain (manual gain control: 0 to 24.4 dB)
- Auto exposure (49  $\mu$ s to 67 s)
- Auto white balance
- Look-up table (LUT)
- Hue, saturation
- Color correction
- Local color anti-aliasing
- Reverse X/Y
- Deferred image transport
- Trigger programmable, level, single, bulk, programmable delay
- Sequence mode (changes the camera settings on the fly)
- SIS (secure image signature, time stamp for trigger, frame count etc.)
- Storable user sets

## Scope of delivery

- Camera and IEEE 1394b cable (other configurations on request)

## Technical drawing

### 2 x 1394b copper





## Applications

The Stingray F-080B/F-080C cameras includes extensive image pre-processing features. This camera is applicable for:

- Industrial inspection and automation
- Logistics
- Science and research
- Healthcare and medical (white housing available)
- Multimedia, entertainment and sports
- Intelligent traffic solutions (ITS)

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)