

HR-12000-S Series

HR-12000-S-M Monochrome

HR-12000-S-C Color

HR-12000-S-PC Polarized-C

HR-12000-S-PM Polarized-M



12MP 10 GigE Camera with Sony Pregius IMX253

The HR-12000-S utilizes the Sony Pregius IMX253 1.1" sensor. At full resolution (4096 x 3000), you get 80 frames per second. Other benefits include high sensitivity, high frame rate, low noise, and high picture quality. The HR-12000-S offers multi-camera synchronization at <math><1\mu s</math>, low CPU overhead, excellent price-performance ratio, and fiber cable lengths from 1M to 10KM without the need of fiber converters or repeaters.

Polarized sensor options (Sony Polarsens technology) are also available.

Benefits

- » High-speed 10GigE SFP+ Interface
- » 10x the speed of GigE
- » GigE Vision® and Genicam™ compliant
- » Optional IP67 housing

Applications

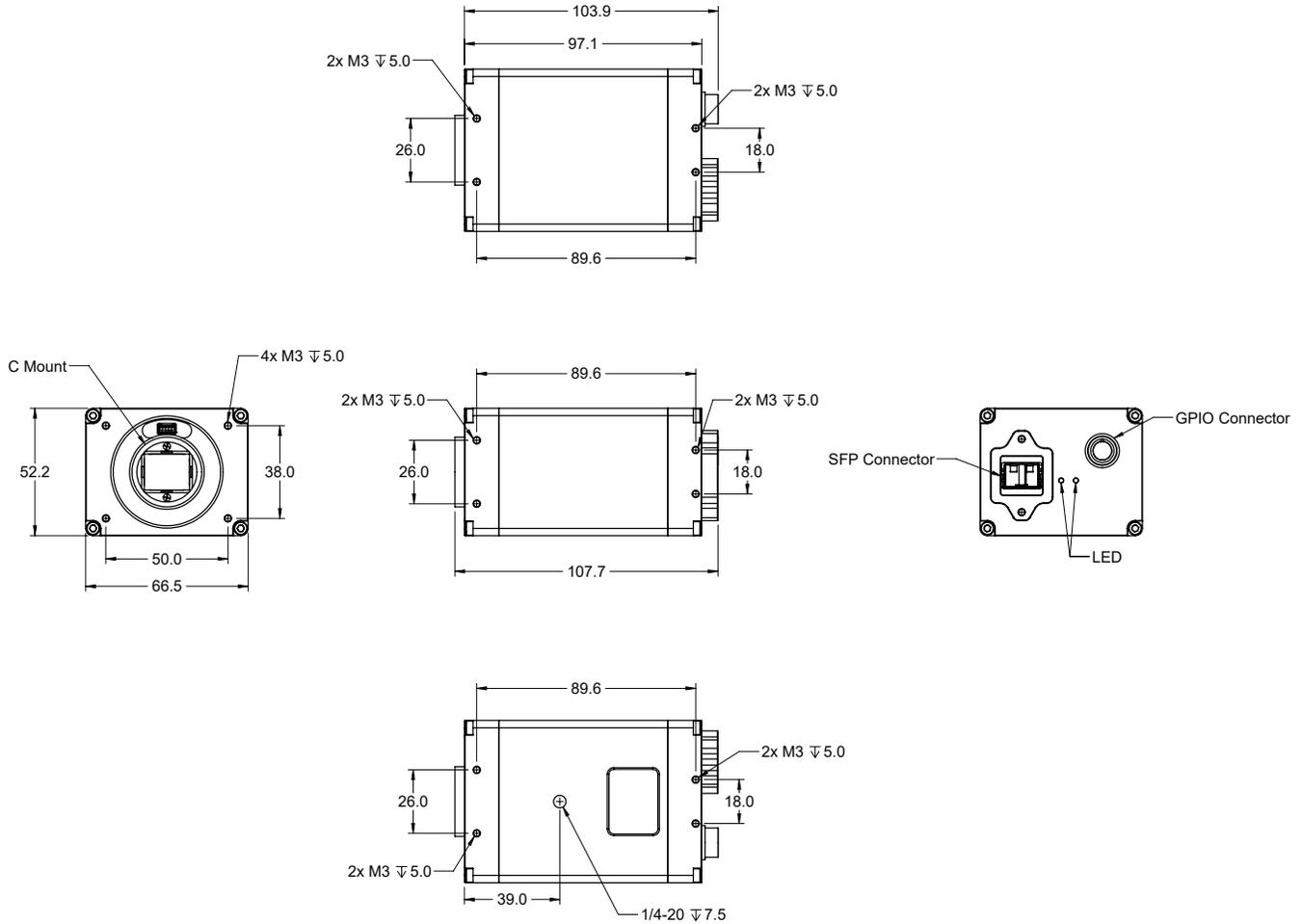
- » Virtual reality
- » 4D reconstruction
- » Volumetric capture
- » Motion capture
- » Microscopy Imaging
- » Player Analytics
- » Transportation Logistics Imaging
- » Immersive 3D Content
- » Goal Line technology
- » Finish Line Vision
- » Referee Assist
- » Sports, Broadcast, Entertainment
- » Pharmaceutical Inspection

Specifications

Sensor	Sony IMX253LLR Sony IMX253LQR Sony IMX253MYR Sony IMX253MZR
Resolution	4096 x 3000
Megapixels	12 MP
Sensor Type	1.1" CMOS
Max Frame Rate	80 fps
Cell Size	3.45µm
Standard Mount	C Mount
Shutter	Global
Bit Depth	8 & 12 bit
GPIO / Triggering	3 in, 3 out Software, External (Pulse or Edge)
Interface	SFP+ 10GigE
Exposure/Integration*	10µs-1s
Dynamic Range	71 dB
Monochrome Modes	Mono8, Mono12, Mono12Packed
Color Modes	RGB8, BGR8, YUV411, YUV422, YUV444
Raw Modes	BayerRG8, BayerRG12, BayerRG12Packed
Operating System	Win7/8/10 (64 bit), Linux (64 bit)
Compliance	CE, FCC, RoHS, WEEE, GigE Vision, GenICam
Power Requirements	7W, 12V
Operating Temperature	0C- 45C
Storage Temperature	-30C to +60C
Dimensions & Weight	97 x 66 x 52- 500g
Warranty	2 Years

*all minimum exposure specs can vary from what is listed based on the limitations of each sensor as per notice from the manufacturer.

Mechanical drawings



Spectral Sensitivity

