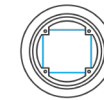


Phase One global shutter camera iXM-GS120

Cutting-edge imaging technology designed and built for the demanding needs of high quality imaging in demanding conditions. iXM-GS120 offers a wide area high resolution camera with high sensitivity, low noise and, minimal integration time, for diverse inspection and mapping applications.

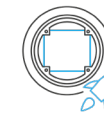


Key benefits



No mechanical shutter required

The iXM-GS120's electronic global shutter enables you to capture images without any physically moving parts. This makes the iXM-GS120 extremely durable with low-to-no maintenance.



The fastest electronic shutter speed currently on the market

Set exposure times up to 1/16,000 of a second to capture perfect still frames of fast-moving objects with no motion blur.



High dynamic range

Varying light conditions are no problem for the iXM-GS120. Its high dynamic range means it captures exceptionally detailed images at both ends of the light spectrum and everything in between.



Large number of pixels

Its 12,768 x 9,564-pixel count captures images of very large area in incredible quality and detail.

ixM-GS120

Technical specifications

		ixM-GS120
Specifications	Sensor type	CMOS Global Shutter
	Spectral range (nm)	350 - 1000
	Dynamic range (dB)	80
	Pixel size (µm)	3.45
	SNR ratio	105:1
	Sensitivity (ISO)	200
	Global Shutter speed (sec)	1/16000
	Global shutter efficiency (dB)	92
	Color options	Color or Monochrome
	Filter options	IR-Cut or clear glass
	Resolution	12768 x 9564
	Max. field of view (°)	63
	Continuous frame rate (fps)	6 (maximum frame rate)
	Burst frame rate (Hz)	12
	Raw file compression 14bit (MB)	120
Raw file compression 12bit (MB)	95	

2K Live video	Max. field of view (°)	21
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		ixM-GS120
Interface	Image data	Ethernet 10G (Fiber/Copper), USB3
	API	Phase One SDK, Mavlink
	H/W signals	Inputs: Trigger, dark calibration Outputs: Camera ready, MEP
	Internal storage	CF Express, up to 1TB

Power	Input (VDC)	12-30
	Max. power consumption (W)	20

Mechanical	Dimensions - excluding lens (mm)	90x90x67
	Weight - excluding lens (g)	630
	Interface	8x M4 threads
	Weight with RS lens adaptor (g)	1000

Operating conditions	Humidity (%)	15 - 95 (non-condensing)
	Weather protection	IP53
	Temperature (°C)	-10 to +40
	Storage temperature (°C)	-55 to +85
	EMI	EN61000, EN55024, EN55032
	FCC	Part 15, class A, subpart B

Lenses	RSM Lenses	35mm, 80mm, 80mmAF, 150mmAF, 300mmAF
	RS Lenses	50mm, 70mm, 90mm, 110mm, 150mm MK II, 180mm

RSM and RS lenses Technical specifications

	RSM Lenses				
	35mm	80mm	80mm AF	150mm AF	300mm AF
Lens composition	12 elements in 8 groups	8 elements in 5 groups	8 elements in 5 groups	8 elements in 7 groups	11 elements in 9 groups
Focus range	Infinity	Infinity	3m to Infinity	10m to Infinity	10m to Infinity
Shutter speed max.	1/2500	1/2500	1/2500	1/2500	1/2000
Exposure control	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments
Aperture range	f/5.6 - f/22	f/5.6 - f/22	f/5.6 - f/22	f/5.6 - f/22	f/8 - f/32
Filter diameter (mm)	58	58	58	58	86
Total Length (mm) with Camera	144	164	164	199	328
Weight (g/lb)	540	470	630	744	1900
Angle of view - Long side (°)	63	30.4	30.4	17.1	8.4
Angle of view - Short side - (°)	49.4	23	23	12.9	6.3
Entrance pupil to image plane (mm)	72	85	85	107	85.5

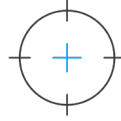
	RS Lenses					
	50mm	70mm	90mm	110mm	150mm MK II	180mm
Lens composition	10 elements in 7 groups	9 elements in 7 groups	9 elements in 8 groups	6 elements in 5 groups	8 elements in 7 groups	7 elements in 3 groups
Focus range	Infinity	Infinity	Infinity	Infinity	Infinity	Infinity
Shutter speed max.	Up to 1/2500	Up to 1/2500	Up to 1/2000	Up to 1/2500	Up to 1/2500	Up to 1/2000
Exposure control	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments
Aperture range	f/4 - f/22	f/5.6 - f/22	f/5.6 - f/22	f/4 - f/22	f/5.6 - f/22	f/6.3 - f/22
Filter diameter (mm)	67	58	72	58	86	67
Total Length (mm) with Camera	181	179	224	184	257	283
Weight (g/lb)	800/1.76	580/1.27	1150/2.53	620/1.37	1150/2.53	1400/3.1
Angle of view - Long side (°)	47.5	34.9	27.5	22.6	17.1	14
Angle of view - Short side - (°)	36.5	26.5	20.8	17	12.9	10.5
Entrance pupil to image plane (mm)	99.3	91.1	130.8	76.1	65.8	141.5

Additional benefits and features

iXM-GS120



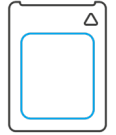
120 Megapixels
image data at 6 fps



Geotagged
images



Continuous HD
video stream



1 TB in camera
storage



Camera control and
Image processing SDK



Ready for
remote update



Weather and
dust proof



Secured
connectors



Lightweight
and compact



Low power
consumption



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