Unbeatable shutter speed for blur-free
astonishingly detailed images

iXM-GS120

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iXM-GS120

For customers who need to capture the finest details of rapidly moving objects, the Phase One iXM-GS120 camera delivers the accuracy and resolution required at the highest speed possible due to its electronic global shutter.

Unlike competitors, the unrivalled dynamic range and image quality enables you to capture the details you need even under highly unfavorable environmental conditions, ensuring you can operate under any circumstances.

Large number of pixels

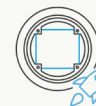Its 12,768 x 9,564-pixel count captures images of very large area in incredible quality and detail.

High dynamic range

The iXM-GS120's high dynamic range means it captures exceptionally detailed images under varying light condition.

No mechanical shutter required

The electronic global shutter ensures that the iXM-GS120 is extremely robust and long-lasting with low-to-no maintenance.

Fastest shutter speed on the market

Set exposure times up to 1/16,000 of a second to capture perfect still frames of fast-moving objects.

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Technical specifications

SPECIFICATIONS	Sensor type	CMOS Global Shutter
	Resolution	12,768 x 9,564 120 MP
	Color options	RGB & Achromatic
	Dynamic range (dB)	80
	Pixel size (μm)	3.45
	Light sensitivity (ISO)	RGB: 200 - 6400 ACH: 800 - 25600
	Max field of view (°)	63
	Max shutter speed (sec)	1/16000
	Camera type	Medium format
	Continuous frame rate (fps)	Up to 5*
	Burst frame rate (Hz)	12
	RAW file compression (approx.) (IIQ)	95 MB
	Lens mount	Phase One RSM and RS
INTERFACE	Image data	USB 3.0, Ethernet 10G (Fiber/Copper)
	API	Phase One SDK
	H/W signals	Inputs: Trigger, Black reference Outputs: Camera ready, MEP
	Internal data storage	CF Express card up to 1TB
	HDMI	1920x1080
	Synchronization speed in multiple camera configuration (μs)	50
POWER	Max. power consumption (W)	20
	Power input (VDC)	12 - 30
MECHANICAL	Weight - excluding lens (g)	647
	Dimensions - excluding lens (mm)	90 x 90 x67
	Interface (for mounting)	4 x M4 threads
OPERATING CONDITIONS	Weather protection	IP53
	Temperature (°)	-10 to 40
	Humidity (%)	15 to 80 (non-condensing)
	Approvals	FCC Class A, CE, RoHS

* = 10G required. Continuous frame rate may vary based on camera settings, image file size and host PC.

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	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 (°)	64.4	30.8	30.8	16.7	8.4
Angle of view - Short side (°)	50.5	23.3	23.3	12.6	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	16.7	14
Angle of view - Short side (°)	36.5	26.5	20.8	17.1	12.6	10.5
Entrance pupil to image plane (mm)	99.3	91.1	130.8	76.1	65.8	141.5

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Additional benefits and features

120 Megapixels image data at 6 fps

Geotagged images

Continuous HD video stream

1 TB in camera storage

Lightweight and compact

Camera control and image processing SDK

Ready for remote update

Weather and dust proof

Secured connectors

Low power consumption

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