

Unbeatable shutter speed for blur-free  
astonishingly detailed images

# iXM-GS120



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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

With a 11,664 x 8,750-pixel count images of very large areas can be captured in incredible detail.



## 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.

# iXM-GS120

## 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)	6
	Burst frame rate (Hz)	12
	RAW file compression (approx.) (IIQ)	95 MB
	Lens mount	Phase One RSM and RS
	INTERFACE	Image data
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)
	Power input (VDC)	12 - 30
MECHANICAL	Weight - excluding lens (g)	630
	Dimensions - excluding lens (mm)	90 x 90 x 67
	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



### 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

## iXM-GS120

## 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