Unbeatable shutter speed for blur-free astonishingly detailed images

iXM-GS120





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 \times 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.



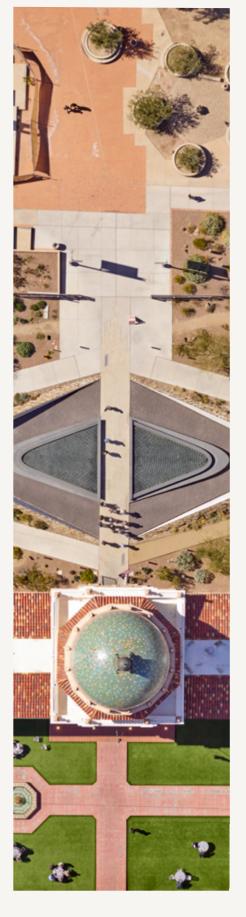
Fastest shutter speed on the market

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



iXM-GS120 Technical specifications

Resolution					
Color options RGB & Achromatic	SPECIFICATIONS	Sensor type	CMOS Global Shutter		
Dynamic range (dB)	_	Resolution	12,768 x 9,564 120 MP		
Pixel size (µm) 3.45		Color options	RGB & Achromatic		
Light sensitivity (ISO)		Dynamic range (dB)	80		
Light sensitivity (ISO)	_	Pixel size (μm)	3.45		
Max shutter speed (sec)		Light sensitivity (ISO)	RGB: 200 - 6400 ACH: 800 - 25600		
Camera type Medium formal Continuous frame rate (fps) 6 6 6 6 6 6 6 6 6		Max field of view (°)	63		
Continuous frame rate (Hps) Example		Max shutter speed (sec)	1/16000		
Burst frame rate (Hz)		Camera type	Medium format		
RAW file compression (approx.) (IIQ)	_	Continuous frame rate (fps)	6		
Capprox.) (IIQ)		Burst frame rate (Hz)	12		
Lens mount	_		95 MB		
Image data		Lens mount	Phase One RSM and RS		
H/W signals H/W signals H/W signals H/W signals Homitarial data storage Internal data	INTERFACE	lmage data	USB 3.0, Ethernet 10G (Fiber/Copper)		
H/W signals Black reference Outputs: Camera ready, MER Internal data storage Black reference Outputs: Camera ready, MER CF Express carc up to ITE HDMI 1920x1080 Synchronization speed in multiple camera configuration (µs) POWER Max. power consumption (W) Power input (VDC) Power input (VDC) MECHANICAL Weight - excluding lens (g) Dimensions - excluding lens (mm) Interface (for mounting) A x M4 threads OPERATING CONDITIONS Temperature (*) Humidity (%) FCC Class A FCC Class A		API	Phase One SDK		
Outputs: Camera ready, MEF Internal data storage Internal data storage		LIAM simula	Inputs: Trigger, Black reference		
HDMI 1920x108C Synchronization speed in multiple camera configuration (μs) POWER Max. power consumption (W) 2C Power input (VDC) 12 - 3C MECHANICAL Weight - excluding lens (g) 63C Dimensions - excluding lens (mm) 90 x 90 x 67 excluding lens (mm) 4 x M4 threads OPERATING CONDITIONS Temperature (°) -10 to 4C Humidity (%) FCC Class A		H/ W signais	Outputs: Camera ready, MEP		
Synchronization speed in multiple camera configuration (µs) POWER Max. power consumption (W) 20 Power input (VDC) 12 - 30 MECHANICAL Weight - excluding lens (g) 630 Dimensions - excluding lens (mm) 90 x 90 x 67 excluding lens (mm) 4 x M4 threads OPERATING CONDITIONS Temperature (°) -10 to 40 Humidity (%) (non-condensing)		Internal data storage	CF Express card up to 1TB		
in multiple camera configuration (µs) POWER Max. power consumption (W) 20 Power input (VDC) 12 - 30 MECHANICAL Weight - excluding lens (g) 630 Dimensions - excluding lens (mm) 90 x 90 x 67 excluding lens (mm) 4 x M4 threads OPERATING CONDITIONS Weather protection IP53 Temperature (°) -10 to 40 Humidity (%) (non-condensing)		HDMI	1920x1080		
POWER Max. power consumption (W) 20 Power input (VDC) 12 - 30 MECHANICAL Weight - excluding lens (g) 630 Dimensions - excluding lens (mm) 90 x 90 x 67 excluding lens (mm) 4 x M4 threads OPERATING CONDITIONS Weather protection IP53 Temperature (°) -10 to 40 Humidity (%) (non-condensing) FCC Class A		in multiple camera	50		
MECHANICAL Weight - excluding lens (g) Dimensions - excluding lens (mm) Interface (for mounting) 4 x M4 threads OPERATING CONDITIONS Weather protection Temperature (°) Humidity (%) FCC Class A	POWER		20		
Dimensions - excluding lens (mm) Interface (for mounting) OPERATING CONDITIONS Weather protection Temperature (°) Humidity (%) FCC Class A		Power input (VDC)	12 - 30		
excluding lens (mm) Interface (for mounting) OPERATING CONDITIONS Weather protection Temperature (°) Humidity (%) FCC Class A	MECHANICAL	Weight - excluding lens (g)	630		
OPERATING CONDITIONS Weather protection Temperature (°) Humidity (%) FCC Class A	_		90 x 90 x67		
CONDITIONS Temperature (°) Humidity (%) FCC Class A		Interface (for mounting)	4 x M4 threads		
Humidity (%) (non-condensing) FCC Class A		Weather protection	IP53		
Humidity (%) (non-condensing) FCC Class A		Temperature (°)	-10 to 40		
FCC Class A		Humidity (%)	15 to 80 (non-condensing)		
Approvals		Approvals	FCC Class A, CE, RoHS		





RSM Lenses

	35mm	80mm	80mm AF	150mm AF	300mm AF		
Lens composition	12 elements	8 elements	8 elements	8 elements	11 elements		
Lens composition	in 8 groups	in 5 groups	in 5 groups	in 7 groups	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		
Evposure control	1/3 f - stop	1/3 f - stop	1/3 f - stop	1/3 f - stop	1/3 f - stop		
Exposure control	increments	increments	increments	increments	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		

	50mm	70mm	90mm	110mm	150mm MK II	180mm
Lens composition	10 elements	9 elements	9 elements	6 elements	8 elements	7 elements
	in 7 groups	in 7 groups	in 8 groups	in 5 groups	in 7 groups	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
-	1/3 f - stop					
Exposure control	increments	increments	increments	increments	increments	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



Camera control and image processing SDK



Geotagged images



Ready for remote update



Continuous HD video stream



Weather and dust proof



1 TB in camera storage



Secured connectors



Lightweight and compact



Low power consumption







