

An aerial photograph of a coastal resort. The left side shows a rocky coastline with waves crashing onto a sandy beach. To the right, there are several swimming pools, including a large one with a slide, and several multi-story buildings. The water is a vibrant blue-green color.

PHASEONE

iXM series

High-productivity metric cameras

iXM series

Phase One iXM cameras are designed for the most demanding mapping, inspection, space and security applications.

All iXM cameras are medium format cameras, based on CMOS sensor, and purpose-built for an easy integration into the most demanding camera systems.



Wide coverage

The widest possible coverage with high resolution and pixel count to capture incredible details of very large areas.



High dynamic range

The high dynamic range to capture exceptional details even in the most challenging light conditions boosting productivity.



Innovative shutter technology

The iXM family provides the most advanced shutter options on the market. The RS Shutters allow for an unbeatable shutter speed rate of 1/2500. To push the limit even further, an electronic global shutter option is also available to reach the fastest shutter speed rate on the market of 1/16.000.



Build for seamless integration

The iXM's compact size and low weight facilitates effortless integration. By connecting the iXM to GNSS receiver and IMU, precise geolocation of the images are ensured. Plus, taking full control of the camera settings has never been so easy with our comprehensive Software Development Kit.

Flexible configurations to boost productivity

The iXM family offers flexible configurations to cover a wide range of resolutions to suit your specific need and application from 100 MP all the way up to 280 MP, with both NIR and RGB options.

A wide range of compatible lenses let you choose the optimal lens for your specific mission and operating conditions. Whether you are engaged in aerial mapping,

surveying, environmental monitoring, or infrastructure inspection, Phase One iXM cameras set the highest possible standard for image quality, productivity, and accuracy.

Elevate your imaging capabilities with the iXM camera family and capture the world from above with unparalleled precision and detail.

iXM-100



iXM-GS120



iXM-RS150F



iXM-RS280F



Camera comparisons



	iXM-100	iXM-GS120	iXM-RS150F	iXM-280F
SPECIFICATIONS				
Resolution	100 MP 11,664 x 8,750	120 MP 12,768 x 9,564	150 MP 14,204 x 10,652	284 MP 20,150 x 14,118
Color options	RGB & Achromatic	RGB & Achromatic	RGB & Achromatic	RGB
Dynamic range (dB)	83	80	83	83
Pixel size (Qm)	3.76	3.45	3.76	3.76
Light sensitivity (ISO)	RGB: 50-6400 ACH: 200-25600	RGB: 200-6400 ACH: 800-25600	RGB: 50-6400 ACH: 200-25600	RGB: 50-6400
Max shutter speed (sec)	1/2500	1/16000	1/2500 or 1/2000 depending on lens	1/2000
Camera type	Medium format	Medium format	Medium format	Large format
Continuous frame rate (fps)	3	Up to 5	2	2
RAW file compression (approx.) (IIQ)	65 MB	95 MB	100 MB	2 x 100 MB
Lens mount	Phase One RSM	Phase One RSM and RS	Phase One RS	Phase One RS (90mm only)
INTERFACE				
Image data	USB 3.0, Ethernet 10 G (Fiber/Copper)	USB 3.0, Ethernet 10 G (Fiber/Copper)	USB 3.0, Ethernet 10 G (Fiber/Copper)	USB 3.0, Ethernet 10 G (Fiber/Copper)
H/W signals	Inputs: Trigger, Black reference Outputs: Camera ready, MEP	Inputs: Trigger, Black reference Outputs: Camera ready, MEP	Inputs: Trigger, Black reference Outputs: Camera ready, MEP	Inputs: Trigger, Black reference Outputs: Camera ready, MEP
HDMI	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Synchronization speed in multiple camera configuration (Qsec)	50	50	50	50
POWER				
Max. power consumption (W)	16	20	16	32
Power input (VDC)	12 - 30	12 - 30	12 - 30	12 - 30
MECHANICAL				
Weight (g)	630 (excluding lens)	647 (excluding lens)	1000 (excluding lens)	4700 (incl. lenses)
OPERATING CONDITIONS				
Temperature (°)	- 10 to 40	- 10 to 40	- 10 to 40	- 10 to 40
Humidity (%) (non condensing)	15 to 80	15 to 80	15 to 80	15 to 80
4-BAND CONFIGURATION	-	-	Optional add-on	-

Phase One aerial cameras opening angles

Focal length	Pixel size (Qm)	Pixels Long side	Pixels Short side	Angle of view Long side (°)	Angle of view Short side (°)
iXM-RS280F					
RS-90 mm	3.76	20,150	14,118	45.7	32.9
iXM-RS150F					
RS-40 mm	3.76	14,204	10,652	67.5	53.2
RS-50 mm				56.2	43.7
RS-70 mm				41.8	31.9
RS-90 mm				33.1	25.1
RS-110 mm				27.3	20.6
RS-150 mm Mk II				20.2	15.2
RS-180 mm				16.9	12.7
RSM-300 mm				10.2	7.6
iXM-GS120					
RSM-35 mm	3.45	12,768	9,564	64.4	50.2
RS-50 mm				47.5	36.5
RS-70 mm				34.9	26.5
RSM-80 mm				30.8	23.3
RSM-80 mm AF				30.8	23.3
RS-90 mm				27.5	20.8
RS-110 mm				22.6	17.1
RS-150 mm Mk II				16.7	12.6
RSM-150 mm AF				16.7	12.6
RS-180 mm				14	10.5
RSM-300 mm AF				8.4	6.3
iXM-100					
RSM-35 mm	3.76	11,664	8,750	64.1	50.3
RSM-80 mm				30.7	23.2
RSM-80 mm AF				30.7	23.2
RSM-150 mm AF				16.6	12.5
RSM-300 mm AF				8.4	6.3





PHASEONE

About Phase One

Phase One is a global leader in digital imaging technology. Our commitment to imaging quality spans a wide spectrum of applications, from professional photography to heritage digitization, industrial inspections, aerial mapping, security and space.

With over three decades of innovation, Phase One has pioneered core imaging technologies and a range of digital cameras and imaging modules, setting new standards for image quality in terms of resolution, dynamic range, color fidelity and geometric accuracy. Together with its customers, technology partners and its global network of distributors, Phase One drives the imaging industry forward.

We deliver Imaging Beyond Imagination.
www.phaseone.com

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