

An aerial photograph of a city square, likely in Copenhagen, showing a large open plaza with a central fountain, surrounded by historic buildings with red-tiled roofs. A large ship is docked at a quay along the water's edge in the upper left. The image is used as a background for a camera advertisement.

PHASE**ONE**

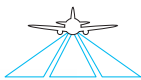
iXM series

High-productivity metric cameras

iXM series

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

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



Map more, fly less

The iXM family enables faster missions and lower operating costs. For example, with the iXM-RS250 flight time can be reduced by approximately 25- 30%, while up to 38% fewer images and shutter actuations increase productivity and help extend equipment lifetime.



High dynamic range

The high dynamic range captures exceptional detail even in the most challenging lighting 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 of 1/2500 s. An electronic global shutter option is also available, reaching the fastest shutter speed on the market of 1/16000 s.

The Fusion Shutter™ technology combines mechanical and electronic shutters into one system. Capture up to 4 fps at 1/16000 s for sharp, motion-free imagery even at high speeds or low altitudes.



Built for seamless integration

The iXM's compact size and low weight facilitate effortless integration. By connecting the iXM to a GNSS receiver and IMU, precise geolocation of images is ensured. Full control of the camera settings is easily achieved through our comprehensive Software Development Kit (SDK).

Flexible configurations to boost productivity

The iXM family offers flexible configurations to cover a wide range of resolutions to suit your specific needs and applications from 247 MP all the way down to 120 MP, with both RGB and Achromatic 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-RS250



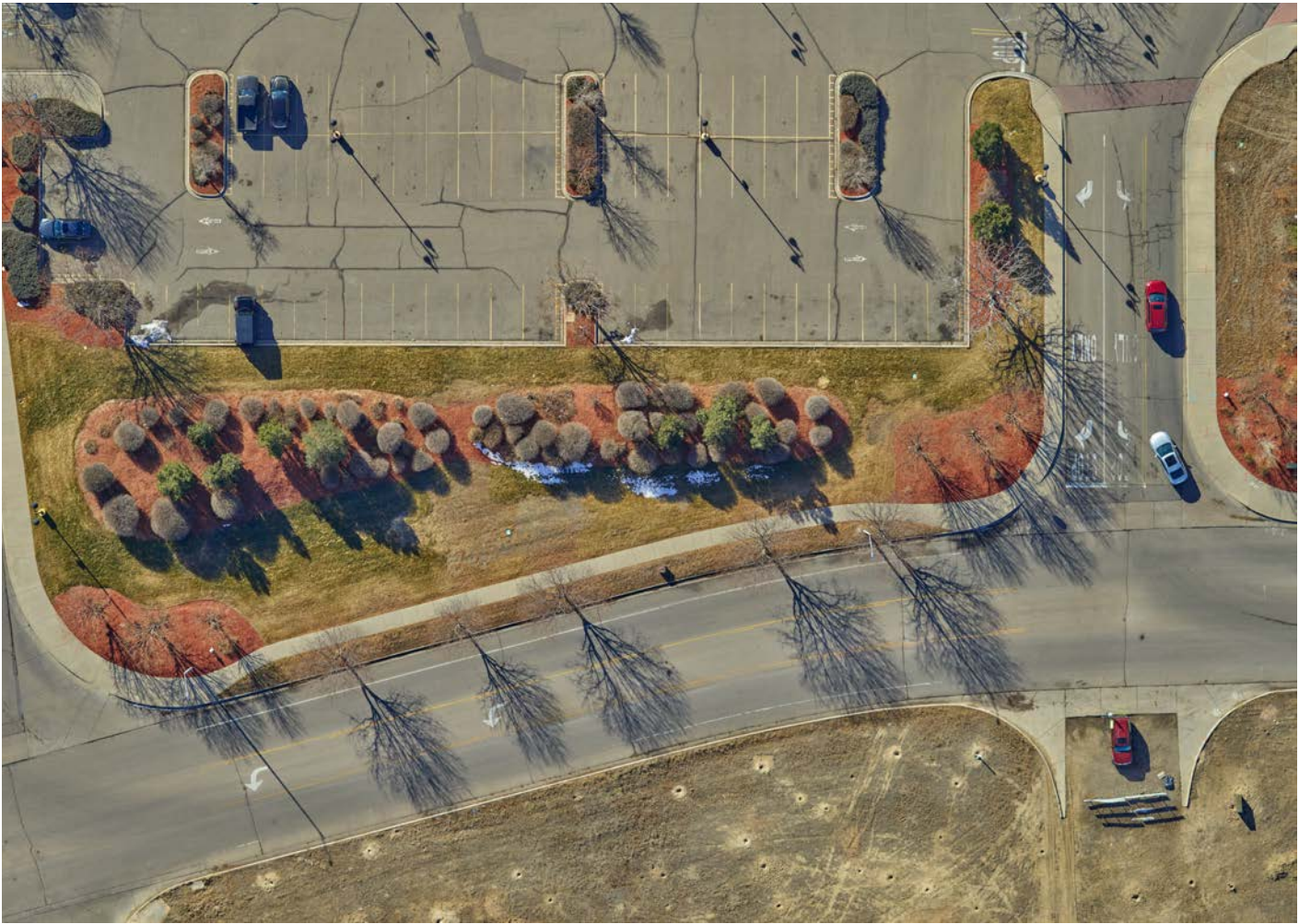
iXM-RS150



iXM-FS130



iXM-GS120



Camera comparisons

					
		iXM-RS250	iXM-RS150	iXM-FS130	iXM-GS120
Specifications	Resolution	247 MP	150 MP	128 MP	120 MP
		19,236 x 12,836	14,204 x 10,652	13,468 x 9,564	12,768 x 9,564
	Color options	RGB & Achromatic	RGB & Achromatic	RGB & Achromatic	RGB & Achromatic
	Dynamic range (dB)	82	83	80	80
	Pixel size (µm)	2.81	3.76	3.45	3.45
	Light sensitivity (ISO)	RGB: 50	RGB: 50	RGB: 200	RGB: 200
		ACH: 200	ACH: 200	ACH: 800	ACH: 800
	Max shutter speed (sec)	Up to 1/2500 depending on lens	1/2500 or 1/2000 depending on lens	1/16000	1/16000
	Camera type	Medium format	Medium format	Medium format	Medium format
	Continuous frame rate (fps) with previews	Up to 2	Up to 2	Up to 4	Up to 2
	IIQ-X compression	yes	no	yes	no
	Hardware accelerated preview processing	yes	no	yes	no
	Lens mount	Phase One RSX and RS	Phase One RSX and RS	Phase One RSM, RSX and RS	Phase One RSM, RSX and RS
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	Inputs: Trigger, Black reference	Inputs: Trigger, Black reference	Inputs: Trigger, Black reference
		Outputs: Camera ready, MEP	Outputs: Camera ready, MEP	Outputs: Camera ready, MEP	Outputs: Camera ready, MEP
	HDMI	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
	Synchronization speed in multiple camera configuration (µsec)	50	50	50	50
Power	Max. power consumption (W)	16	16	16	16
	Power input (VDC)	12 - 30	12 - 30	12 - 30	12 - 30
Mechanical	Weight (g)	1000 (excluding lens)	1000 (excluding lens)	647 (excluding lens)	647 (excluding lens)
Operating conditions	Temperature (°C)	- 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	Optional add-on	Optional add-on	

Phase One aerial cameras opening angles

Focal length	Pixel size (µm)	Pixels long side	Pixels short side	Angle of view long side (°)	Angle of view short side (°)
iXM-RS250					
RSX-45 mm	2.81	19,236	12,836	62.0	43.7
RSX-65 mm				45.2	31.0
RSX-95 mm				31.8	21.5
RSX-120 mm				25.4	17.1
RSX-150 mm				20.4	13.7
RSX-220 mm				14.0	9.4
RS-70 mm				42.2	28.9
RS-90 mm				33.4	22.7
RS-150 mm				20.4	13.7
RS-180 mm				17.1	11.4
iXM-RS150					
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-FS130					
RSM-35 mm*	3.45	13,468	9,564	64.4	50.5
RS-50 mm				49.8	36.5
RS-70 mm				36.7	26.5
RSM-80 mm				32.4	23.3
RSM-80 mm AF				32.4	23.3
RS-90 mm				28.9	20.8
RS-110 mm				23.9	17.1
RS-150 mm Mk II				17.6	12.6
RSM-150 mm AF*				17.6	12.6
RS-180 mm				14.7	10.5
RSM-300 mm AF				8.9	6.3
iXM-GS120					
RSM-35 mm	3.45	12,768	9,564	64.4	50.5
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				14.0	10.5
RSM-300 mm AF				8.4	6.3

*Resolution limited to 120 MP

Setting the standard in high-precision aerial imaging

Phase One sets the benchmark for high-end geospatial imaging by designing and manufacturing aerial camera components, compact systems, software packages and lifecycle services for high-precision aerial mapping and data collection.

With more than 30 years of imaging expertise, Phase One has built a reputation for uncompromised image quality — not only in resolution and dynamic range, but also in the geometric accuracy, radiometric consistency, and reliability required for photogrammetric workflows at scale. This technological foundation supports professionals across aerial mapping, infrastructure, utilities, environmental monitoring, defense and space — driving greater efficiency, flexibility and operational value.

Phase One continuously evolves its portfolio — advancing sensor and camera technologies, expanding software capabilities, and enabling seamless integration with OEM and partner platforms. Through scalable software offerings, structured upgrade and migration paths, as well as long-term service programs, we help customers maximize the lifetime value of their systems while preparing for next-generation capabilities.

www.phaseone.com

