

An aerial, high-angle photograph of a city street grid. The image shows a large central square with a fountain, surrounded by buildings with dark roofs. To the right, there are more buildings with red roofs. At the top, a waterfront area is visible with a large ship docked and a smaller boat nearby. The overall scene is a dense urban environment.

PHASE**ONE**

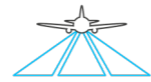
iXM series

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. Depending on configuration, 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 and 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



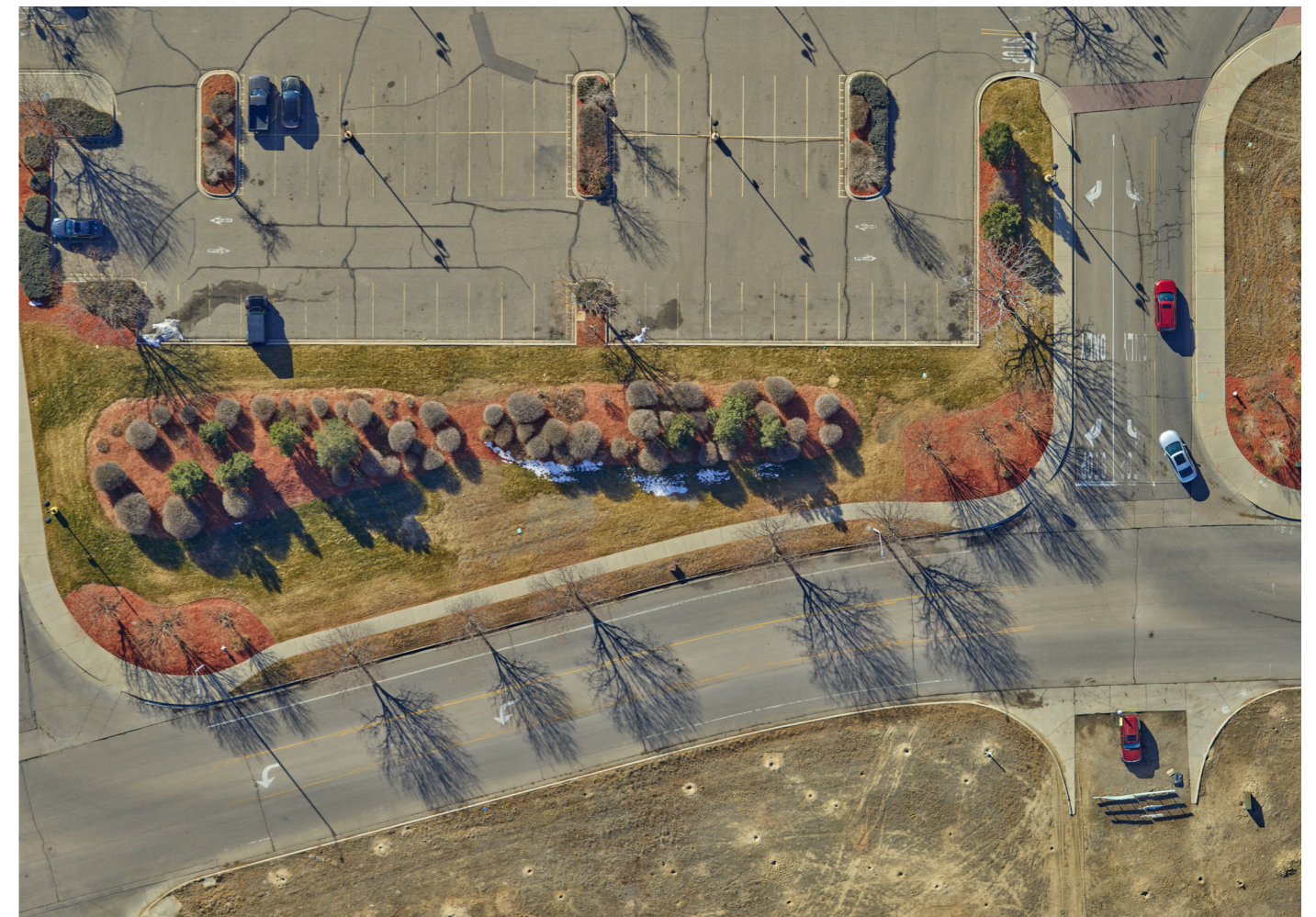
iXM-RS150



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)	83	83	80	80	
	Pixel size (µm)	2.81	3.76	3.45	3.45	
	Light sensitivity (ISO)	RGB: 50 ACH: 200	RGB: 50 ACH: 200	RGB: 200 ACH: 800	RGB: 200 ACH: 800	
	Max shutter speed (sec)	1/2500	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	
	RAW file compression	IIQ-X	IIQ	IIQ-X	IIQ	
	Lens mount	Phase One RSX and RS	Phase One RS	Phase One RSM and RS	Phase One RSM 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

