

PHASE**ONE**



iXM-RS250



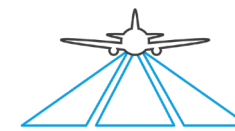
# Unrivalled mapping productivity from a single camera

The iXM-RS250 is Phase One's most advanced single-head aerial camera, purpose-built for demanding geospatial applications. Featuring a state-of-the-art 247 MP sensor, the iXM-RS250 increases mapping coverage by approximately 35% compared to iXM-RS150, allowing more ground to be captured in fewer flight lines. This results in shorter flight times, lower fuel consumption, and significantly reduced project costs.

Designed as a seamless upgrade for current iXM users, the iXM-RS250 is fully compatible with existing mounts and workflows, allowing organizations to expand their capabilities without reconfiguring their operations delivering immediate gains in productivity and efficiency.

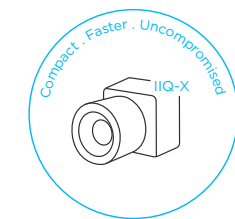
At the core of its efficiency is the newly developed IIQ-X compression technology - a proprietary Phase One technology that makes it possible to manage ultra-high-resolution data volumes without overloading workflows or storage infrastructure. This means users get uncompromised Image Quality while avoiding performance and cost bottlenecks that comes with increase in resolution and data volumes.

Supported by a new RS lens range for flexibility across altitudes and project types, the iXM-RS250 adapts easily to diverse mission requirements. As a drop-in replacement for existing iXM systems, it offers a smooth upgrade path with minimal disruption. For customers looking to increase efficiency, capacity, and imaging performance in one move, the iXM-RS250 is the definitive choice.



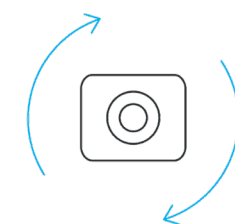
## Map more, fly less

The iXM-RS250 allows operators to complete missions faster and with significantly lower operating costs. By reducing flight time by approximately 25-30%, it cuts both fuel consumption and aircraft hours, while up to 38% fewer images and shutter actuations extend the lifetime of your equipment. Thanks to the widest coverage from a single high-resolution sensor, you can map more areas in fewer passes, maximizing productivity in the air.



## High resolution, minimum storage

Managing the vast data from ultra-high-resolution imagery has never been easier. The iXM-RS250 introduces Phase One's IIQ-X format, delivering up to 90% smaller files than 16-bit TIFFs while maintaining uncompromised image quality. This streamlined data handling prevents storage, and processing bottlenecks and integrates seamlessly with leading geospatial workflows. The result is smooth, efficient image processing from capture to final deliverables.



## One camera, every mission

Flexibility is at the heart of the iXM-RS250. Its newly designed RS lens range is purpose-built to fully match the capabilities of the new sensor, delivering optimal performance across configurations. Whether in hybrid, compact, or oblique system setups, operators can tailor the camera for any mission, be it dense urban mapping, corridor surveys, or large-area coverage. Its drop-in compatibility with the iXM platform ensures an effortless upgrade path, letting you expand capabilities without disrupting existing operations, all with a single, versatile camera system.

# Technical specifications

Image format and frame rate		iXM-RS250
Resolution (Mpix)		247
Sensor resolution (pix)		19,240 x 12,840
Dynamic range [dB]		81
Color basic sensitivity [ISO]		100
Monochrome basic sensitivity [ISO]		400
Pixel size [µm]		2.81
Sensor size [mm x mm]		54 x 36
Aspect ratio		3:2
Continuous frame rate [fps]		2
Shortest exposure time [s]		1/2,500
Shutter type		Mechanical

## RS lenses

Focal lenght	RSX-45 mm	RSX-65 mm	RSX-95 mm	RSX-120 mm	RSX-150 mm	RSX-220 mm
Angle of view - long side (°)	62.0	45.2	31.8	25.4	20.4	14.0
Angle of view - Short side (°)	43.7	31.0	21.5	17.1	13.7	9.4

Interfaces and mechanical specifications		iXM-RS250
Interfaces		
Image data		USB 3.0, Ethernet 10G (fiber/copper)
API		Phase One SDK
H/W signals (inputs)		Trigger, Black reference
H/W signals (output)		Camera ready, MEP
Internal data storage		CF Express card
HDMI		1,920 x 1,080
Mechanical		
Dimensions - excl. lens (mm)		90 x 90 x 91
Interface (for mounting)		4 x M4 threads
Weight - excl. lens (kg)		1.0

## Operating conditions

Operating temperature (°C)	-10 to 40
Storage temperature (°C)	TBD
Relative humidity (%)	15 to 80 (non-condensing)
Certifications	
FCC Class A, CE, RoHS	Specific standards specified on DoC
IP rating	IP53

## 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](http://www.phaseone.com)**

