

Phase One Launches 150MP Metric Camera and New Aerial Systems



[Phase One](#) has launched the iXM-RS metric camera series and new aerial systems. The flagship iXM-RS150F camera is full frame with 150 megapixels and available in RGB and achromatic models. Its ultra-high-resolution (14,204 x10,652) backside-illuminated CMOS sensor, fast capture speed (2 fps) and enhanced light sensitivity enable increased productivity in a wide range of aerial image acquisition projects. The iXM-RS camera is the imaging heart of Phase One Industrial's aerial system: a fully integrated solution for mapping and surveying.

The two new 150-megapixel and [100-megapixel iXM-RS](#) cameras feature Phase One Industrial's proven RS lens series with seven field-replaceable focal length options, ranging from 32mm to 150mm. Designed and built for aerial photography by Rodenstock

and Schneider Kreuznach, these lenses are factory calibrated for infinity focus and each is equipped with a central 1/2,500 sec. leaf shutter.

Customers need flexible, efficient imaging solutions for projects that demand superior accuracy and efficiency, said Dov Kalinski, general manager of Phase One Industrial. He stated his company is committed to helping their customers succeed, therefore they have designed the new iXM-RS camera series and aerial systems to exploit the powerful resolution and light sensitivity available from state-of-the-art sensor technology. It is developed to deliver the most comprehensive performance for a wide range of photogrammetric applications.

iXM-RS Configurations

Phase One Industrial also introduces a new addition to its fully integrated aerial systems: a 150MP configuration with either a single-frame sensor for RGB imaging or a four-band aerial system with dual-frame sensors for RGB and NIR imaging. Each aerial system includes the camera and additional components, such as: the iX Controller, [Somag stabiliser](#), [Applanix GPS/ IMU](#) unit and the Phase One flight planning and management software iX Plan and iX Flight.

- iX Plan enables users to simply generate flight plans supporting:
 - Digital terrain model (DTM)
 - Base map
 - Project shape
 - Ground control points (GCPs)
- iX Flight uses iX Plan data to manage and guide the precise execution of aerial photography missions.
 - Designed for pilots to easily maintain precise trajectory by following altitude and localiser instructions while the operator manages the mission, control the order of passes, tag images and start/stop image collection;
 - Full control over the camera, stabiliser and GPS/IMU components;
 - Simulation mode for training and system testing.

The new iXM-RS150F and [iXM-RS100F single frame](#) cameras introduced today can be used standalone for photogrammetric work, or as part of a multi-camera array for customized applications, including high-resolution oblique camera systems and Lidar systems. They can also be easily integrated with other popular flight management systems and GPS/IMU receivers.

Interfaces and storage

The Phase One Industrial iXM camera platform supports multiple interfaces for camera controls and storage, including USB-C interface to enable faster yet flexible data transfer or longer cable length with 10G Ethernet (with either fiber or copper options). Also included are local storage with XQD cards, HDMI output with 2K video, and overlays to support high-end integration of UAVs.

For complete technical specifications and a comprehensive view of the new iXM-RS full frame aerial cameras and a complete list of lens options, [see here](#).

The Phase One Industrial iXM-RS 150F camera as well as both 150MP and 100MP aerial systems will be showcased at [Intergeo](#),

Frankfurt, Germany, from 16-18 October 2018.

<https://www.gim-international.com/content/news/phase-one-launches-150mp-metric-camera-and-new-aerial-systems>
