

## Phase One Introduces 3 High-Performance Lenses for Surveying and Mapping Applications



Phase One Industrial has expanded its RS and RSM lens offering with three new high-performance lenses for high-altitude aerial photography and long-range aerial and ground inspection applications. The 300mm AF, 180mm and 150mm MK II lenses are designed to enhance the performance and flexibility of Phase One Industrial's iXM-RS and iXM aerial camera series. Each offers precision imagery, taking advantage of the cameras' ultra-high-resolution backside-illuminated (BSI) CMOS sensors, to maintain a smaller ground sample distance (GSD) while flying at higher altitudes.

With the longest focal length in the line-up, the Phase One RSM 300mmAF lens offers a 5cm GSD from 13,000ft. It fits both iXM and iXM-RS camera models and produces superb image quality by enhancing the cameras' ultra-high-resolution BSI CMOS sensors (3.76

µm pixels). The lens is ideal for both high-altitude 2D and 3D mapping and long-range ground inspection. The motorized lens offers a focus range of 10m to infinity, within which a predefined distance can be set remotely. A self-locking mechanism is built in to secure the focus position against vibrations.

## **Oblique configurations**

Specified by Phase One and built by Rodenstock Photo Optics, Germany, the Rodenstock RS 180mm lens reaches a 5cm GSD from 8,000ft. when used with the iXM-RS150F camera. The lens supports the camera's ultra-high-resolution BSI sensor for greater image quality and is integrated with a Phase One RS reliance shutter for speed and reliability. The RS 180mm enhances high-altitude aerial 2D and 3D mapping and improves efficiency in oblique configurations.

A 5cm GSD from 6,500ft. is achievable with the RS 150mm MK II lens. It complements the iXM-RS150F camera's ultra-high 150-megapixel resolution BSI CMOS sensor for acquiring quality images for high-altitude aerial 2D and 3D mapping.

Every Phase One Industrial lens is rigidly built for robustness against vibrations and shocks to meet RTCA DO160G standards, and is individually tested for performance and high-modulation across the whole image area.

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