



## **Phase One Industrial Introduces Three High Performance Lenses for High-Altitude Aerial Photography and Long-Range Aerial and Ground Inspection**

*The new 300mm AF, 180mm, and 150mm MK II lenses are designed to enhance the versatility and performance of Phase One Industrial's iXM-RS and iXM 150MP to 50MP resolution camera series*

**COPENHAGEN, May 28, 2019** – Phase One Industrial today 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.

**Phase One RSM 300mmAF.** With the longest focal length in the line-up, this lens offers a 5 cm GSD from 13,000 ft. 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  $\mu\text{m}$  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 10 m 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.

- 5 cm GSD from 13,000 ft.
- 10 m to infinity focusing range
- f/8 – f/32 aperture range
- 1/2000 sec exposure time
- RS Shutter reliability - 500,000 actuations

**Rodenstock RS 180mm.** Specified by Phase One and built by Rodenstock Photo Optics, Germany, this lens reaches a 5 cm GSD from 8,000 ft. 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.

- 5 cm GSD from 8,000 ft.
- f/6.3 – f/22 aperture range
- 1/2000 sec exposure time
- RS Shutter reliability - 500,000 actuations

**Phase One RS 150mm MK II.** A 5 cm GSD from 6,500 ft. 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.

- 5 cm GSD from 6,500 ft.
- f/5.6 – f/22 aperture range
- 1/2500 sec exposure time
- RS Shutter reliability - 500,000 actuations

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.

### **Pricing and Availability**

The Phase One RS 150mm MK II is available to order from May 2019. The RSM 300mm AF and RS 180mm lenses are available for pre-ordering and will begin shipping in September 2019.

For pricing, please contact: <https://industrial.phaseone.com/contact.aspx>

### **About Phase One Industrial**

Phase One Industrial is the division of Phase One A/S that researches, develops, and manufactures specialized industrial camera systems and imaging software solutions. The company focuses on specific industry applications such as aerial mapping and surveying, ground and aerial inspection, agriculture, machine vision, and homeland security. For more information, please go to: <https://industrial.phaseone.com/>