

Phase One Launches Aerial Cameras with Central Lens Shutter Design



Phase One Industrial has introduced the iXU-RS aerial camera series, featuring an innovative central lens shutter design. The new shutter technology is based on a direct drive concept with electronic charging that enhances exposure speed to as fast as 1/2500s, while the company guarantees half a million exposures, an unprecedented shutter life span.

The series' flagship 100MP iXU-RS1000 camera system, with the advanced lens shutter, a capture rate of 0.6 seconds per frame and its CMOS sensor with superior light sensitivity of 50-6400 ISO, is designed to expand the efficiency of aerial imaging operations, including under deteriorating weather conditions or on days that were previously not conducive to image capture, allowing faster flights, and larger surface coverage.

Large format quality experience

For a small-bodied medium format camera, the iXU-RS1000 offers a large format quality experience thanks to its sensor technology and high performance optics, which can deliver 11,608 pixels cross-track coverage. Users can gain more image coverage during a flight, while maintaining the same ground sample distance (GSD), or a lower GSD, while flying at the same height. Its small form factor supports multiple uses – as a standalone camera for photogrammetric work or as part of an array (to cover a larger swath) or as part of an oblique camera system.

iXU-RS series cameras

Other iXU-RS series cameras include the 80MP iXU-RS180, and 60MP iXU-RS160 and [160 Achromatic systems](#). All iXU-RS series cameras feature accurate metric calibration, scalability to form multi-camera arrays, and easy integration with popular flight management systems and GPS/IMU receivers. There are seven available lens options, including: 32mm, 40mm, 50mm, 70mm, 90mm, 110mm and 150mm. Lenses have been designed and built for aerial photography by Rodenstock and Schneider Kreuznach, and factory calibrated for infinity focus. The iXU-RS1000 is suited to [four band imaging applications](#).