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Ophir® IR Optics Expands Family of Cooled MWIR Long Range Lenses, Adds 900mm and 1350mm FL's Suited for Aviation and Observation Systems

Andover, Massachusetts, April 16, 2019 – [MKS Instruments, Inc.](http://www.mksinst.com) (NASDAQ: MKSI), a global provider of technologies that enable advanced processes and improve productivity, has announced the **Ophir® SupIR 45-900mm MWIR f/4** and **SupIR 50-1350mm MWIR f/5.5 long range, motorized continuous zoom lenses** at SPIE Defense + Commercial Sensing 2019. The MWIR f/4.0 and f/5.5 lenses are part of a larger collection of long-range, high-performance, thermal imaging lenses suited for 15 and 20µm VGA and 10µm HD formats, based on an open communication protocol that enables simple integration over a detection range of up to 26km.

The new **SupIR 45-900mm f/4** is part of Ophir's family of continuous zoom lenses, providing NFOV focal length (FL) ranges from 300mm to 900mm, and HFOV up to 0.6°. Based on the legacy SupIR 15-300mm MWIR f/4 zoom lens with its proven track-record of thousands of units operating in the field and its ruggedized design, the 45-900mm f/4 delivers superb image quality and accurate line of sight for long-range observation systems. All lenses use the same communication protocol to assure easy integration into existing camera systems. The Ophir MWIR f/4 family is designed to work with cameras that are either 20µm or 15µm VGA format, and with 10µm HD format.

Ophir's new **SupIR 50-1350mm f/5.5** is a state-of-the-art continuous zoom lens, specially designed for UAV applications as well as other applications where weight and size are critical. The lens is based on a cutting-edge folded optics design and provides a 27X zoom ratio, accurate line-of-sight (LOS), and is suited for VGA and HD formats.

According to Yitzhak Raif, VP/GM, Ophir Optics Group, “Our new 45-900mm f/4 and 50-1350mm f/5.5 motorized zoom lenses are state-of-the-art, long-range continuous zoom lenses which deliver superior optical performance and are specifically designed to meet the exacting requirements of aviation and observation systems.”



SuplR 30-600mm f/4.0, Motorized Continuous Zoom
680384 / 680385

NEW



SuplR 35-690mm f/4.0, Motorized Continuous Zoom
680294 / 680295



SuplR 45-900mm f/4.0, Motorized Continuous Zoom
680425 / 680426

NEW



SuplR 48.5-700mm f/5.5, Motorized Continuous Zoom
680102-004*



SuplR 28-850mm f/5.5, Motorized Continuous Zoom
680072*



SuplR 50-1350mm f/5.5, Motorized Continuous Zoom
680356*

NEW

Availability

The **SuplR MWIR f/4.0** and **SuplR MWIR f/5.5 long range, motorized continuous zoom lenses** are available now. OEM prices available upon request.

NEW: SuplR 45-900mm f/4.0 lens data sheet:

https://www.ophiropt.com/optics/lens_sub_assembly/catalog/680425_680426.pdf

NEW: SuplR 50-1350mm f/5.5 lens data sheet:

https://www.ophiropt.com/optics/lens_sub_assembly/catalog/680356.pdf

Long range lenses series:

<https://www.ophiropt.com/infrared-optics/infrared-optics-applications/long-range>

SuplR 15-300mm f/4.0 lenses:

<https://www.ophiropt.com/infrared-optics/infrared-optics-applications/mwir-f4-zoom-lenses>

About MKS Instruments

MKS Instruments, Inc. is a global provider of instruments, subsystems and process control solutions that measure, monitor, deliver, analyze, power and control critical parameters of advanced manufacturing processes to improve process performance and productivity for our customers. Our products are derived from our core competencies in pressure measurement and control, flow measurement and control, gas and vapor delivery, gas composition analysis,

residual gas analysis, leak detection, control technology, ozone generation and delivery, power, reactive gas generation, vacuum technology, lasers, photonics, sub-micron positioning, vibration control, optics and laser-based manufacturing solutions. We also provide services relating to the maintenance and repair of our products, installation services and training. Our primary served markets include semiconductor, industrial technologies, life and health sciences, research and defense. Additional information can be found at www.mksinst.com.

About the Ophir Brand

Ophir is a brand within the MKS Instruments Light & Motion division. The Ophir product portfolio consists of laser and LED measurement products, including laser power and energy meters, laser beam profilers measuring femto-watt to hundred-kilowatt lasers, high-performance IR and visible optical elements, IR thermal imaging lenses and zoom lenses for defense and commercial applications, OEM and replacement high-quality optics and sub-assemblies for CO₂ and high-power fiber laser material processing applications. Ophir products enhance our customers' capabilities and productivity in the semiconductor, industrial technologies, life and health sciences, research and defense markets. For more information, visit www.ophiropt.com.

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