

OPHIR® KAMU MWIR SXGA INFRARED CAMERA SERIES

FULL PLUG AND PLAY INTEGRATION
FOR IMMEDIATE PLATFORM ONBOARDING



FULLY INTEGRATED INFRARED CAMERA SOLUTION FOR IMMEDIATE PLATFORM ONBOARDING

BUILT ON A LEGACY OF OPTICAL LEADERSHIP

A Plug-and-Play Approach to MWIR Imaging

The Ophir® Kamu MWIR SGXA camera architecture provide standardized interfaces and well-defined control schemes reduce system complexity and minimize integration risk. This approach enables faster transition from lab validation to field deployment, supporting accelerated program schedules without compromising technical rigor.

integration-ready architecture to accelerate deployment while delivering long-range, high-performance imaging.

The system delivers unmatched clarity, low distortion, stable line-of-sight (LOS), precise boresight and image focus, across the zoom range.

The KAMU series spans focal lengths from 300 mm to 1200 mm, supporting extended detection and long-range imaging performance for perimeter security, observation and surveillance, and counter-UAS missions.

Mission Grade MWIR Long-Range Imaging Capability

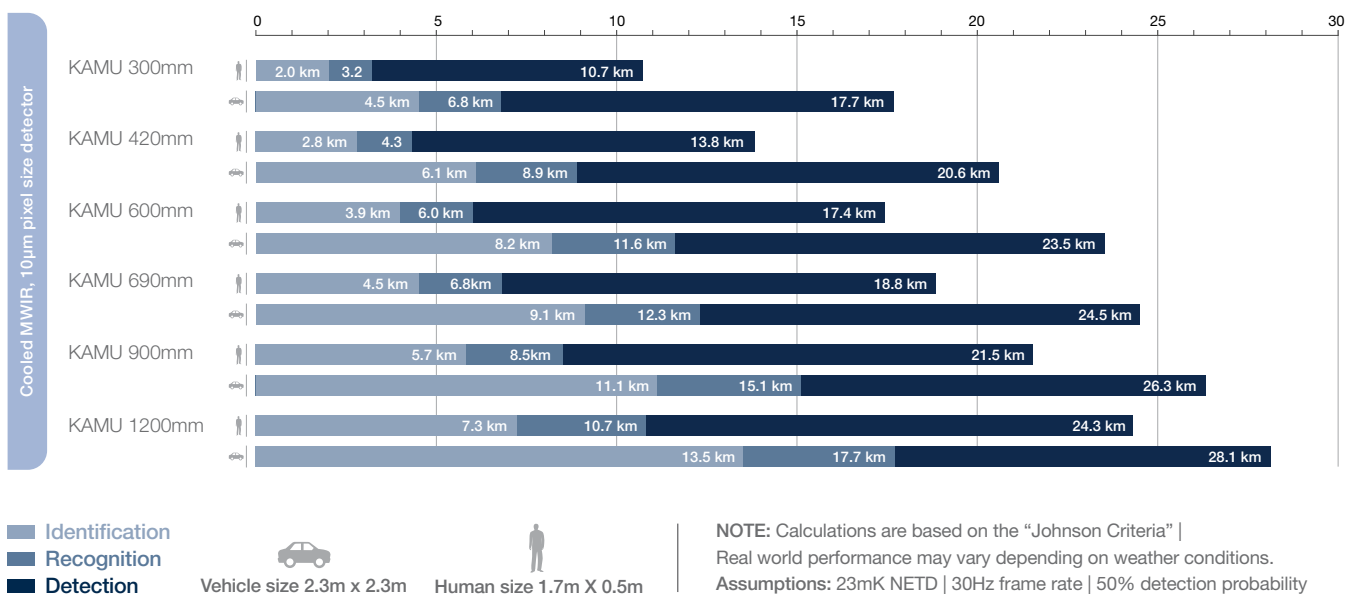
The Kamu series combines best-in-class MWIR f/4 continuous-zoom with a high-resolution SXGA 10 μm detector, advanced video-processing, and an

Key Product Capabilities

- SXGA MWIR cooled sensor (1280x1024, 10 μm)
- Constant f/4 aperture from 0.6° (NFOV) to 47.8° (WFOV)
- Digital video outputs & streaming: H.264/H.265, HD-SDI, HDMI
- Advanced NUC & calibration: 2-point NUC, optional 1 point
- Open-frame and MIL-STD-810 qualified configurations available



Target Identification and Detection Ranges (Km)



The Ophir® Kamu Thermal Camera Series MWIR f/4 SXGA 10 μm



Property	Value													
Detector														
Detector Type	Cooled FPA													
Spectral Range	3.6-4.9μm													
Resolution	1280x1024													
Pixel Pitch	10 μm													
Cooling Method	Rotary / Striling													
Optics														
Optical Aperture	f/4													
Optics Type	Continuous zoom													
Zoom Capability	Optical zoom													
HFOV Range	300mm		420mm		600mm		690mm		900mm		1200mm			
	W	N	W	N	W	N	W	N	W	N	W	N	W	N
	45.0°	2.4°	20.0°	1.7°	11.4°	1.2°	11.5°	1.0°	9.3°	0.8°	6.8°	0.6°		
Video														
Video Outputs	HDMI, HD-SDI													
Video Streaming	H.264/265													
Control Interfaces	RS422, Ethernet													
Digital Zoom	Yes													
Calibration / NUC	BPR 1pt NUC, 2pt NUC													
Environmental														
Environmental Sealing	Optional													
Operation Temperature	-20°C to +60°C													
Storage Temperature	-40°C to +80°C													
Vibration	MIL-STD-810 C													
Shock	MIL-STD-810 C													
Mechanical														
Housing	OEM							Closed						
Weight*	9.3kg							18.6kg						
Dimensions*	432mm length, Diameter: 286mm							610mm length, Diameter: 335mm						

* Applicable for 900mm camera



About Ophir an MKS Inc. Brand

With five decades worth of knowledge and experience, MKS's Ophir Infrared Optics product line is a world leading designer and manufacturer of high-performance IR thermal imaging systems and optics for SWIR, MWIR & LWIR imaging. Using advanced technologies and innovative engineering we provide a global solution for homeland security, surveillance, defense and commercial applications: infrared thermal imaging cameras, complex lens assemblies and components.

International Headquarters Ophir Optronics Solutions Ltd.

Science based industrial park
Har hotzvim P.O.B 45021
Jerusalem, 9145001 Israel
Tel. 972-2-5484444
MKTG@mksinst.com

USA MKS Instruments Inc.

2 Tech Drive, Suite 201, Andover,
MA 01810, United States
Tel. +1 (603) 4398517
USA.ophiroptics@mksinst.com

EUROPE Ophir optronics solutions Ltd.

La chenevarie 42140
Virigneux, France
Tel. 339-7-7853478
europe.ophiroptics@mksinst.com

INDIA MKS Instruments Atotech Products

Plot No. 446 G & H,
Sector 8, Phase IV, IMT
Manesar-122050
Gurugram - Haryana
Tel. +91 124 6447900
MKTG@mksinst.com

JAPAN Ophir Japan Ltd.

6F Kudan First Place
4-1-28 Kudan-kita, Chiyoda-ku,
Tokyo, Japan 102-0073
Tel. +81-3-3556-2791
oj.optics@mksinst.com

KOREA MKS Instruments Korea

6th Floor, Leaders Tower
12, Wongomae-Ro Giheung-Gu,
Yongin-Si, Gyeonggi-Do,
17086 South Korea
Tel. +82-70-5234-2600
hera.park@mksinst.com

AUSTRALIA AIS (Applied Infrared Sensing)

Level 1, 16-18 Carlotta street,
Artmon, NSW 2064,
Australia
Tel. 1300-557-205 Australia
Tel. 09-889-2477 New Zealand
dmitri.i@applied-infrared.com.au

