

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

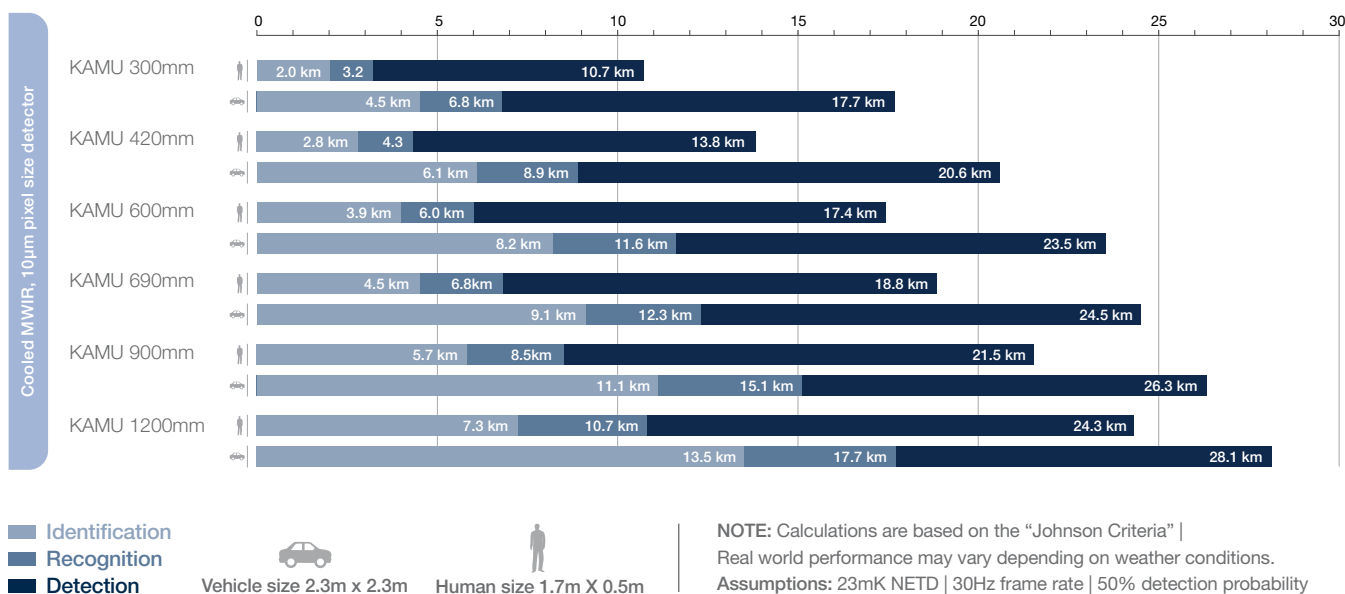
The Kamu series combines best-in-class MWIR f/4 continuous-zoom with a high-resolution SXGA 10 μ m detector, advanced video-processing, and an

Key Product Capabilities

- SXGA MWIR cooled sensor (1280×1024, 10 μ m)
- 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
	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					
Dimentions*	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.

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