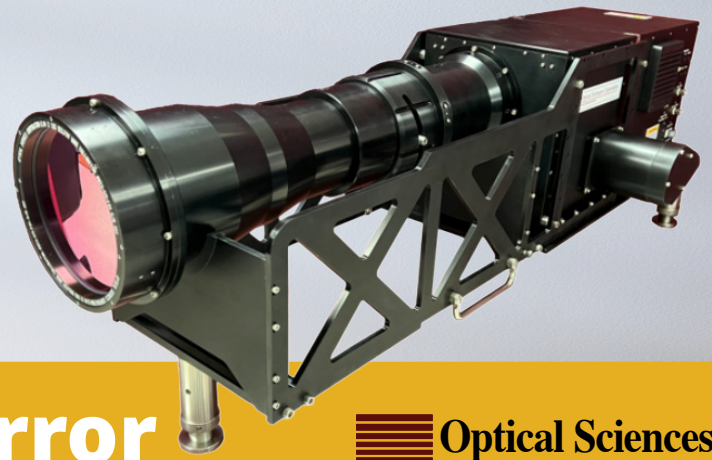




Dual Band Micromirror Array Projector System (MAPS)



Combine two synchronized projection engines to create a multi-spectral simulated environment that increases missile seeker testing & evaluation and countermeasure validation. Valkyrie Enterprises' Dual Band Micromirror Array Projection System (MAPS) integrates two digital micromirror devices (DMD) projection engines to beam mid-wave (MWIR) and long-wave infrared (LWIR) stimuli to perform next-generation electro-optical/infrared testing.



DUAL SPECTRAL CHANNELS

Simultaneous or alternating multi-band projection.



INTERCHANGEABLE COLLIMATORS

Rapidly switch between MWIR and LWIR configurations.



HIGH TEMPERATURE

650K+ apparent temperature for realistic IR signature replication.



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Dual-Band MAPS utilizes twin DMD projection engines for simultaneous or alternating MWIR/LWIR scene generation. Each operates in a 1400×1050 format with >650 K apparent temperature, user-selectable field of view, and frame rates up to 1 kHz for synchronized multispectral testing.



COMPACT, RUGGED DESIGN

Laboratory, hangar, and
flight-line.



HIGH FRAME RATE PERFORMANCE

Frame rates up to 1,000 Hz
for time-synchronized,
high-speed dual-band
testing.

Spectral Bands	MWIR (3–5 μm) and LWIR (8–12 μm)
Resolution Format	1400 × 1050 pixels per band
Frame Rate	Up to 1,000 Hz (synchronized operation)
Apparent Temperature Range	>650 K
Field of View (FOV)	User-selectable with interchangeable collimators
Optical Architecture	Dual DMD projection engines with co-registered optics
Cooling Requirements	None (solid-state optical design)
Illumination Type	Broadband IR source optimized for MWIR/LWIR uniformity
Operating Environment	Lab, hangar, or flight-line HWIL simulation setups
Integration Compatibility	Directly supports synchronized operation with MAPS base system and TEEA modules



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