



MiTIE™ Plus

LYNRED USA

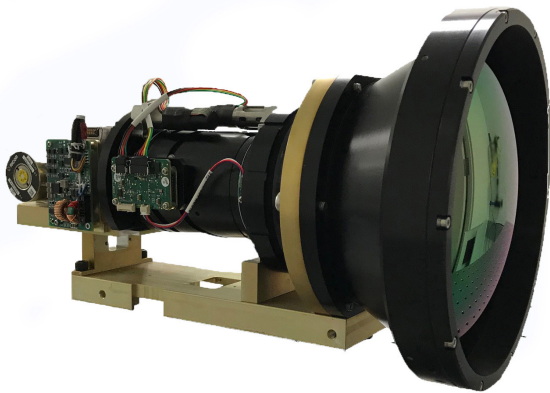
Access to the World's Leading Infrared Technology

Miniature Infrared Thermal Imaging Engines

The LYNRED USA MiTIE Plus Series Infrared Imaging Engines represents infrared camera core integration and flexibility at its highest level. Offering advantages of cooled technology, advanced electronics, comprehensive image post processing and extensive I/O options, the MiTIE Plus engine solutions are supplied as a NRE-free plug and play system.

The MiTIE Plus Series harnesses the full performance of the state-of-the art Lynred MWIR detectors and long life cooler assemblies. The SWaP optimized camera cores incorporate powerful electronics in support of their feature-rich functions. Lynred USA's total lens integration (TLI) provides seamless full lens control, including autofocus, for a variety of continuous zoom lenses.

The MiTIE Plus delivers excellent image quality with high frame rates and are ideal for integration into Intelligence, Surveillance, & Reconnaissance (ISR) systems, gimbals, and other platforms requiring high performance MWIR imaging.



FEATURES



Total Lens Integration

- + Multiple COTS & Custom Lens Options
- + Auto-focus with ROI
- + Active Athermalization
- + Focus Distance and FOV Calibration
- + Optical Shading Correction
- + Aligned, Calibrated, Tested

- + ROIC Mode & Integration Control
- + 14 Bit ADC
- + Bad Pixel Replacement (BPR)
- + Non-Uniformity Correction (NUC)

- + Manual Gain & Level Control
- + Automatic Gain & Level Control (AGC)
- + Local Area Processing (LAP)
- + Adaptive Noise Filtering

- + Sharpening Filter
- + Temporal Filter
- + Electronic Zoom



Electronics Features



Utility

- + Video Overlay
- + Reticles, Graphic Annotations, Augmentation
- + Meta Data Insertion
- + Pseudo-Color Palettes
- + Predictive Maintenance
- + Smart Cooler Control
- + Local Video and Snapshot Recording

- + SDI/HDSI Video
- + CameraLink Digital Video Output
- + Analog NTSC, PAL Video Output (SD only)

- + GigE and GigE Vision
- + H.264 Encoding
- + USB3

- + Co-Processor Interface
- + POE Support
- + Camera & Lens GUI
- + Software Development Kit



Interface Options



MiTIE™ Plus

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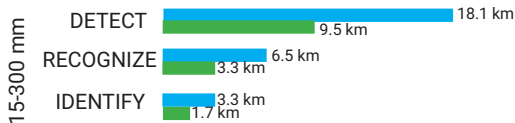
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SPECIFICATIONS

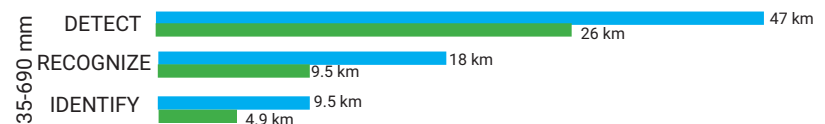
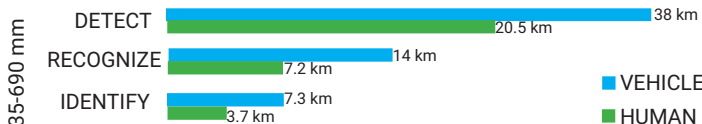
Description	MiTIE Plus Scorpio VGA-300	MiTIE Plus Scorpio VGA-690	MiTIE Plus Daphnis HD-300	MiTIE Plus Daphnis HD-690
	MiTIE Plus Leo VGA-300	MiTIE Plus Leo VGA-690	MiTIE Plus Daphnis XGA-300	MiTIE Plus Daphnis Plus XGA-690
Format	640x512	640x512	1280x720 or 1024x768	1280x720 or 1024x768
Pixel Pitch	15µm	15µm	10µm	10µm
Detector Material	MCT			
Spectral Response	MWIR			
NETD	<20mK			
Frame Rate	120Hz (60Hz Leo)	120Hz (60Hz Leo)	85Hz (100Hz XGA)	85Hz (100Hz XGA)
Lens*	15-300mm cont. zoom	35-690mm. cont. zoom	15-300mm cont. zoom	35-690mm. cont. zoom
WFOV(H)	35.5°	15.6°	46.2° HD; 37.7° XGA	20.7° HD; 16.6° XGA
NFOV(H)	1.8°	0.8°	2.4° HD; 2.0° XGA	1.1° HD; 0.9° XGA

*Multiple lens options available; please contact Lynred USA for specific application requirements

MiTIE PLUS SCORPIO & LEO



MiTIE PLUS DAPHNIS



Technical characteristics described in this data sheet are for information only and are not contractual. Because of ongoing product enhancements, specifications are subject to change without notice. Export of these products from the United States is controlled by the US Government. Prior authorization is required for re-export or transfer.



LYNRED USA

LYNRED USA
373 Route 46W
Fairfield, NJ 07004 USA

Phone: 973-882-0211
Fax: 973-882-0997
Email: info@lynred-usa.com
www.lynred-usa.com