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.
# MiTIE Plus Specifications

## MiTIE Plus Scorpio VGA-300
- **Frame Rate**: 120Hz (60Hz Leo)
- **Lens**: 15-300mm cont. zoom
- **WFOV(H)**: 35.5°
- **NFOV(H)**: 1.8°
- **NETD**: <20mK
- **NETD**: <20mK

## MiTIE Plus Scorpio VGA-690
- **Frame Rate**: 120Hz (60Hz Leo)
- **Lens**: 35-690mm. cont. zoom
- **WFOV(H)**: 15.6°
- **NFOV(H)**: 0.8°
- **NETD**: <20mK
- **NETD**: <20mK

## MiTIE Plus Leo VGA-300
- **Frame Rate**: 120Hz (60Hz Leo)
- **Lens**: 15-300mm cont. zoom
- **WFOV(H)**: 35.5°
- **NFOV(H)**: 1.8°
- **NETD**: <20mK
- **NETD**: <20mK

## MiTIE Plus Leo VGA-690
- **Frame Rate**: 120Hz (60Hz Leo)
- **Lens**: 35-690mm. cont. zoom
- **WFOV(H)**: 15.6°
- **NFOV(H)**: 0.8°
- **NETD**: <20mK
- **NETD**: <20mK

## MiTIE Plus Daphnis HD-300
- **Format**: 1280x720 or 1024x768
- **Pixel Pitch**: 15µm
- **Detector Material**: MCT
- **Spectral Response**: MWIR
- **NETD**: <20mK
- **Frame Rate**: 120Hz (60Hz Leo)
- **Lens**: 15-300mm cont. zoom
- **WFOV(H)**: 35.5°
- **NFOV(H)**: 1.8°

## MiTIE Plus Daphnis HD-690
- **Format**: 1280x720 or 1024x768
- **Pixel Pitch**: 10µm
- **Detector Material**: MCT
- **Spectral Response**: MWIR
- **NETD**: <20mK
- **Frame Rate**: 120Hz (60Hz Leo)
- **Lens**: 15-300mm cont. zoom
- **WFOV(H)**: 15.6°
- **NFOV(H)**: 0.8°

## MiTIE Plus Daphnis XGA-300
- **Format**: 1280x720 or 1024x768
- **Pixel Pitch**: 10µm
- **Detector Material**: MCT
- **Spectral Response**: MWIR
- **NETD**: <20mK
- **Frame Rate**: 85Hz (100Hz XGA)
- **Lens**: 15-300mm cont. zoom
- **WFOV(H)**: 46.2° HD; 37.7° XGA
- **NFOV(H)**: 2.4° HD; 2.0° XGA

## MiTIE Plus Daphnis XGA-690
- **Format**: 1280x720 or 1024x768
- **Pixel Pitch**: 10µm
- **Detector Material**: MCT
- **Spectral Response**: MWIR
- **NETD**: <20mK
- **Frame Rate**: 85Hz (100Hz XGA)
- **Lens**: 35-690mm. cont. zoom
- **WFOV(H)**: 20.7° HD; 16.6°XGA
- **NFOV(H)**: 1.1° HD; 0.9° XGA

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

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**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.**

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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