

LTB LYNRED ToolBox™

LTB LYNRED ToolBox™ is an intuitive and complete software suite that simplifies the use of LYNRED infrared technology. It offers user-friendly and high-performance tools, suitable for both experts and beginners, enabling the exploration, development, and integration of thermal imaging solutions.

- Controlling LYNRED cooled and uncooled modules and detectors
- Processing Infrared (IR) images
- Optimizing the performance of sensors and modules
- Analyzing thermal images

With its user-friendly interface, LYNRED Display Kit (LDK), its modular architecture via the Software Development Kit (SDK), and its advanced algorithms, LTB LYNRED ToolBox™ simplifies the design, testing, and optimization of infrared systems

FACILITATES THE EVALUATION OF LYNRED INFRARED SENSORS AND MODULES

-  **ACCELERATED DEVELOPMENT**
-  **ENHANCE PERFORMANCE**
-  **INTUITIVE AND USER FRIENDLY**



DEFENSE & SECURITY

ENVIRONMENT

LEISURE & HUNTING

UNMANNED SYSTEMS



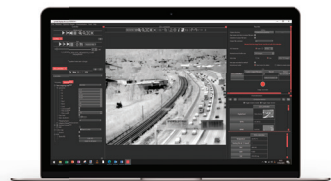
LTB LYNRED TOOLBOX™ FEATURES	
Supported LYNRED's IR modules and sensors	- Advanced Thermal Imagers modules: - ATI320™ (USB demokit) - ATI640™ (USB demokit, MIPI on ARM64 Jetson) - Cooled detectors with LYNRED EvalKit and CameraLINK interface (only supported on Windows platforms): - Daphnis™ - Eole™ - Galatea HHTI™, Galatea SL™ - Seegnus SL™ - Eyesential™ - Snake™ - Uncooled detectors within USB partner's cameras: - PICO160™, PICO384™, PICO640™, PICO1024™ - ATTO320™, ATTO640™, ATTO1024™, ATTO1280™

Supported Operating Systems	- x64, on Windows 10 and Linux Ubuntu 24.04 - ARM64 (tested on NVidia Jetson platforms only), on Linux (Ubuntu 20.04)
SDK Software Development Kit	- The SDK is included with the LTB LYNRED ToolBox™ installer . - C++ API compilers: - x64 platforms: Microsoft Visual C++ 2019 and Linux (Ubuntu 24.04): gcc 13.3 - ARM64 platforms: Linux (Ubuntu 20.04): gcc 9.4 - Python API: - Windows x64: Python 3.9.x - Linux x64 and Linux ARM64: Python 3.9.x

LTB LYNRED ToolBox™ packages:

		LTB Essential		LTB Advanced	
		LDK	SDK	LDK	SDK
Camera functions	Grab, Display, Record images from Camera	✓	✓	✓	✓
Image analysis tool	Histogram visualization, image metrics, line & column scan	✓		✓	
NUC	NUC 2 points Shutter	✓		✓	✓
	NUC dual-capacity	✓		✓	
	LessShutter, Shutterless 1 or 2 points, Destripping, Flare, Denoising			✓	✓
Defect Correction	BPD, BPR	✓		✓	
	Live BPD			✓	✓
Image enhancement	Color Map, Tone Mapping, Gamma	✓		✓	✓
	DDE, ADE, Numeric Zoom			✓	✓

		Optional Add-on	
		LDK	SDK
Add-on Metrics	RFPN, NETD, Temporal noise, ...	✓	✓
	Focus peaking	✓	



LDK Graphical User Interface provides access to the main functions for handling IR images: controlling LYNRED cooled and uncooled modules and sensors, displaying and recording images, access to Advanced Thermal Imagers modules parameters and processing pipeline.
SDK is cross-platform library that enables the creation of custom applications.

LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

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