

MILTECH SUR Series

Next-Generation Very Long-Range Multi-Sensor Surveillance System

The **MLT-SUR-SD1200VLR** is a state-of-the-art cooled thermal imaging system designed for high-precision, very long-range surveillance. Featuring a high-definition 640 x 480 sensor, it delivers exceptional clarity and detection capabilities in even the most extreme environments.

Housed in a rugged, in-house engineered enclosure, this system is built to withstand harsh conditions while ensuring seamless future upgrades.

With integration options including a 39km Laser Rangefinder, digital magnetic compass, and SWIR camera, it provides unmatched accuracy and rapid target acquisition across all surveillance applications.

Backed by Miltech Hellas's superior craftsmanship, fast-turnaround service, and long-term support, the **MLT-SUR-SD1200VLR** is the ultimate choice for mission-critical operations.



24/7 Uninterrupted Operation

Engineered for continuous, round-the-clock performance, ensuring no critical moment is ever missed.

Precision Optics & Future-Ready Design

Featuring 15x continuous optical zoom with autofocus for total target control, plus a customizable, upgradeable system to meet evolving operational demands.

Military-Grade Durability

Built to MIL-STD-810 standards, delivering proven reliability and deployment readiness even in the harshest conditions.



Applications

- Border Perimeter Security
- Coastal Surveillance
- Industrial Facility Security
- Critical Infrastructure Protection
- Deployable Vehicle Operations

MLT-SUR-SD1200VLR

THERMAL IMAGING:

Sensor Resolution (in pixels).	640 X 480
Pixel pitch	15µm pixel pitch
Spectral Response	3-5 um
Thermal Sensitivity	<20mK
Detector Type	Cooled MWIR
Field of View	7.1° to 0.5°
Optical Zoom	24X Continuous Zoom
Digital Zoom	Up to 4x
Focus	Autofocus and Manual Focus
Image Stabilization	e-Stabilization
Image Processing	Contrast Enhancement / Polarity Control / Histogram Equalization
Image Control	Polarity: White/Hot/ Black Hot Orientation: Invert / Revert

DAYLIGHT HD CAMERA:

Image Sensor	Type 1/1.8" Full HD CMOS Color Sensor Full HD 1080p (1920*1080) Digital Video (H.264)
Horizontal Field of View	22.1° to 0.4°
Optical Zoom	60x
Digital Zoom	16x
Focus	Continuous AF, Quick AF, Manual
Image Stabilization	Gyro-EIS
Minimum Sensitivity	up to 0.005 lux.
Other-Features	Wide Dynamic Range, Backlight Correction, Fog Reduction, Hate-Haze Reduction, Noise Reduction, Brightness, Contrast, Saturation, Sharpness

PAN-TILT UNIT:

Azimuth Range	360° Continuous
Azimuth Velocity	0.005°/s to 120°/s
Elevation Range	± 40° (Optional ± 90°)
Elevation Velocity	0.005°/s to 100°/s
Positioning Accuracy	≤ ± 0,1 mrad

POWER:

Input Voltage	24VDC
Power Consumption	< 60 W Typical

INTERFACES:

Remote Control	Ethernet
Video Output	IP, ONVIF & Composite (PAL / NTSC User Defined)
IP Integrations	Integrated IP Encoders Provide Simultaneously H.264 RSTP (Optional H.265) & ONVIF Profile-S

PHYSICAL CHARACTERISTICS:

Camera System Weight	~ 50kg
Camera Size (L x W x H)	700 x 900 x 600mm

ENVIRONMENTAL:

Operating Temperature Range	-30° C to +65° C
IP Rating	IP67
Standard	MLT-STD-810G
Material	Metal Anodized

OPTIONS:

Automatic Tracking	Hardware and User based target acquisition and tracking capability
Laser Range Finder	Up to 39 Km (17Km for Standard NATO Target)