MILTECH SUR Series
Next-Generation Very Long-Range Multi-Sensor Surveillance System

The **MLT-SUR-HD1200VLR** is a state-of-the-art cooled thermal imaging system designed for high-precision, very long-range surveillance. Featuring a high-definition 1280 x 720 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-HD1200VLR** 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 12x 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-HD1200VLR

THERMAL IMAGING:	
Sensor Resolution (in pixels).	1280 X 720
Pixel pitch	10μm pixel pitch
Spectral Response	3-5 um
Thermal Sensitivity	<20mK
Detector Type	Cooled MWIR
Field of View	6.8˚to 0.6˚
Optical Zoom	12X 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
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
ENVIRONMETAL:	
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 Stantard NATO Target)

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