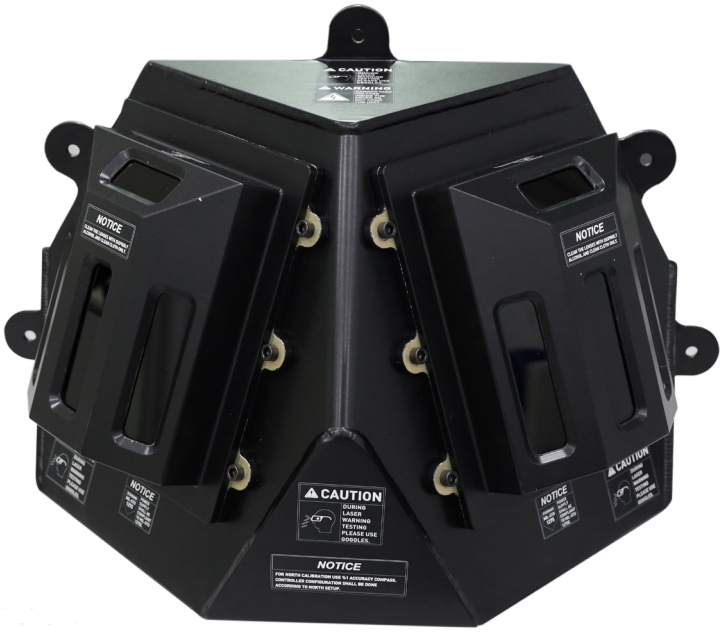
NERO INDUSTRIES
Advanced Reliability

Umay
LW2000 Laser Detector Sensor



UMAY
LAZER UYARI VE HAVAN SİSTEMLERİ

DS-0203202212001421-040

LW2000 LASER DETECTOR SENSOR

- Laser detectors detect, classify and determine 24 different Laser code and frequencies of laser-guided antitank threats within 50 milliseconds.
- It is safeguarded against false alarms such as sunlight, remote controller, artificial-fake light, hand laser as per NATO AEP 3733 standards. It has successfully passed high temperature, low temperature, high humidity, shock-vibration and EMI/EMC tests as per MIL STD 810H, MIL STD 461F and MIL STD 1275E standards.
- It determines threat identity and priority by comparing threat parameters with the threat data included in mission data folder which would be previously loaded to the system.
- This mission data folder can always be updated and the threat classes included can be increased.

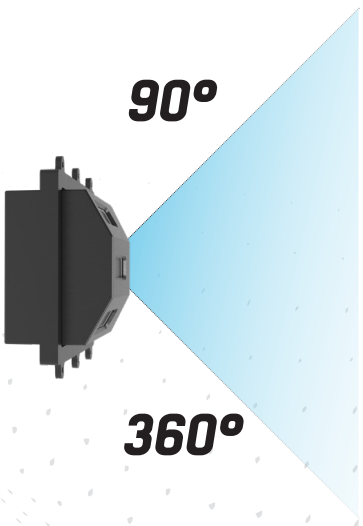
GENERAL SPECIFICATIONS

» Response Time	Max. 500ms
» Threat Classification	Laser Distance Meter (LDM) Laser Target Designator (LTD) Laser Guidance Beam (LGB)
» Detection Possibility	LDM (Band I-II-III): %95 LTD (Band I-II-IV): %95 LGB (Band III-IV): %99
» Detection Sensitivity	10-20 (W/m²)
» Vertical Section Sight Range	(-20 °) – (+ 70 °)
» Total Azimuth Visual Angle	90° / Unit
» Communication System	Canbus (J-1939)
» Water and dust ingress protection	IP67
» Operating Temperature	-40°C / +60°C
» Storage Temperature	-55°C / +85°C
» Salt Fog Resistance	800 hours
» Laser Detection Resolution	15°
» Power Consumption	120 mA ±50 mA @24 VDC Nominal
» Weight	1.8 ±0.5 kg
» False Alarm	<0,2/hour

TECHNICAL SPECIFICATIONS

LASER BANDS		LDM	LTD	LGB
Band I	0.5 µm - 1.1 µm	+	+	
Band II	1.1 µm - 1.65 µm	+	+	
Band III	0.8 µm - 1.1 µm			+
Band IV	8-12 µm	+	+	+

INCIDENCE ANGLE MEASUREMENT SENSITIVITY		
Band I	Horizontal Axis	≤15° (rms)
	Vertical Axis	≤15° (rms)
Band III	Horizontal Axis	≤15° (rms)
	Vertical Axis	≤15° (rms)
Band III	Horizontal Axis	≤15° (rms)
	Vertical Axis	≤15° (rms)
Band IV	Horizontal Axis	≤25° (rms)
	Vertical Axis	≤25° (rms)



Optional Design

UMAY LWS-2 KONTROLKUTUSU

- ***UMAY LWS-2 Contol Unit*** which can control Laser Warning system and smoke grenade system, can switch between laser and smoke grenade system menus easily thanks to its touch screen.
- Laser warning system transmits:
  - -Sensor status
  - -Angle of detected laser
  - -Class
  - -Band options to the user.
- Control unit with digital screen, provides easy use for the user by displaying on-vehicle schematic on the screen.

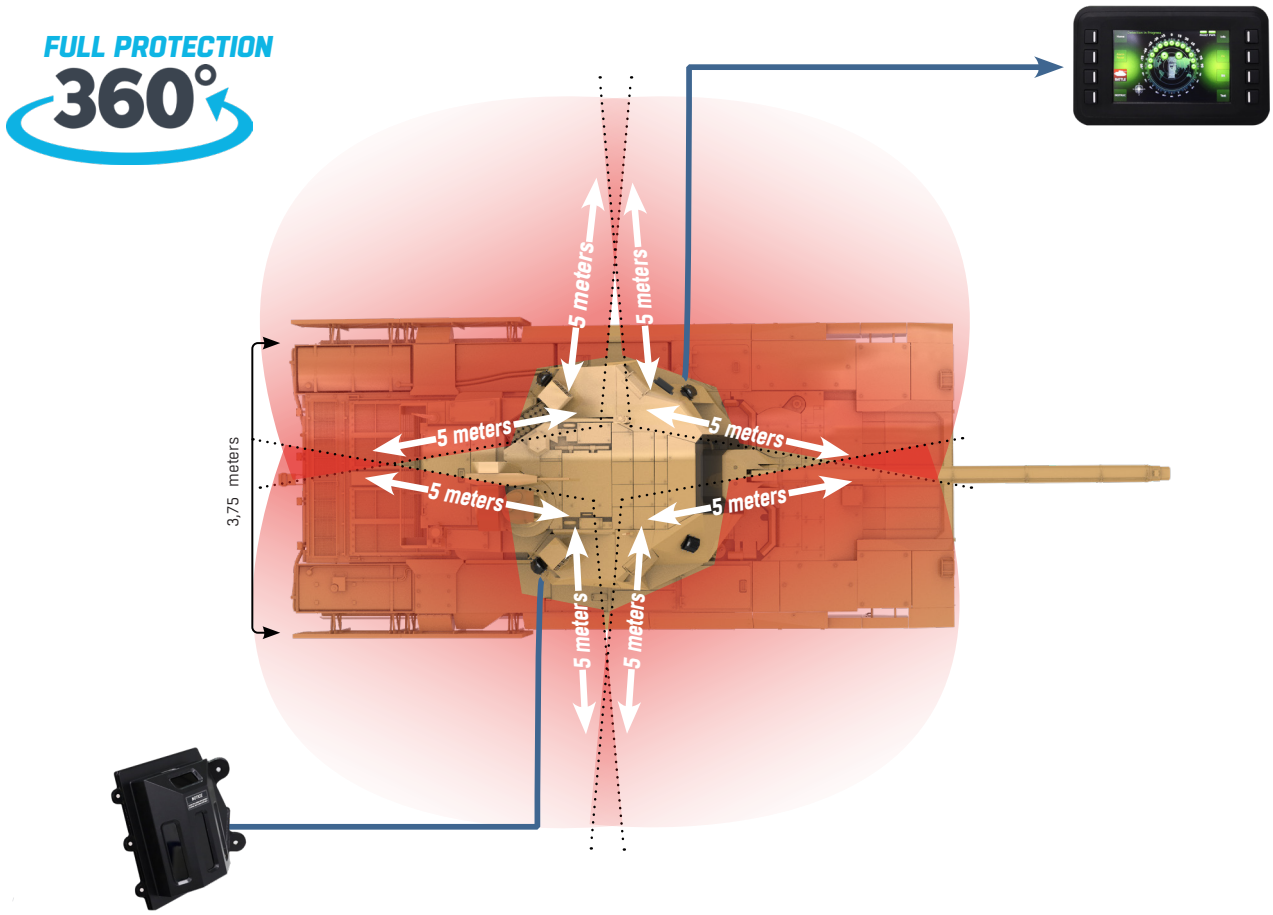
GENERAL SPECIFICATIONS

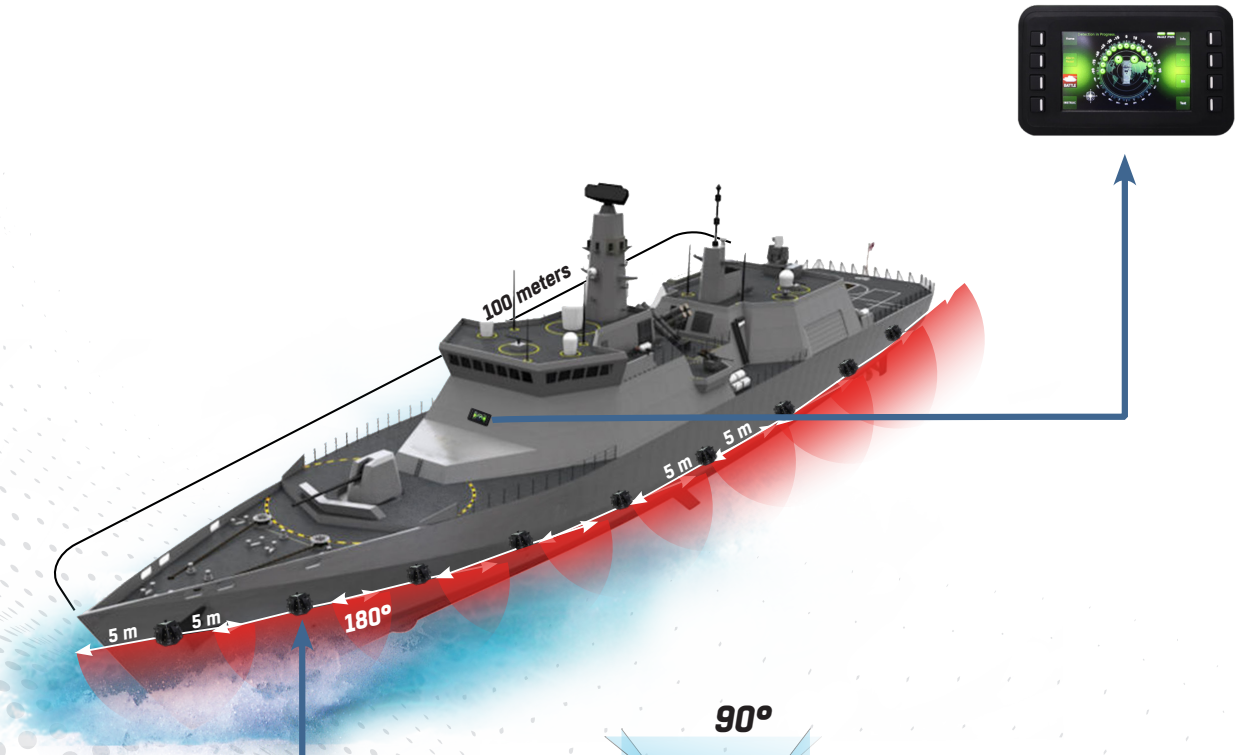
» Laser warning system control capability	» Power Consumption: 24 VDC nominal (16-32 V)
» Opportunity to control laser warning system and smoke grenade automatically and switch between systems	» Dimensions: 180x155x116 ±5 mm
» Capability to control up to 16 smoke grenades	» Weight: Control Unit: 1.9 ±0.3 kg
» Built-In Test Function (BIT)	» IP67 Water and Dust Ingress Protection
» Capability to detect and control two different types of smoke grenades	» Production as per IPC-A-610G Class 3 Standards PC
» Communication Interface: CAN-BUS	» Storage Temperature: -55°C / +85°C
» Operating Temperature: -32°C / +49°C	» Capability to Communicate with Other Systems

BUTTON SPECIFICATIONS

1.	MAIN SCREEN	5.	The Test button is reserve right now.
2.	The alarm could clear by using Fn + Alarm reset buttons.	6.	BIT Button
3.	You will change mode from Battle to Peace.	7.	Activates function.
4.	You will go into the Button Config.	8.	Info button.

UMAY LW 2000 ARMORED VEHICLE APPLICATION





Suitable for Vehicle Structure Optional Design

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