JOINT STOCK COMPANY
ELECTROMAGNETICA
266-268 Calea Rahovei Sector 5 050912 - Bucharest
Phone: ++40 21 404 21 13 Fax: ++40 21 404 21 90
E-mail: petre.tita @electromagnetica.ro
www.electromagnetica.ro

- ELECTRIC AND ELECTRONIC EQUIPMENT
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LASER RANGEFINDER SYSTEM FOR ARTILERY AND INFANTRY

STLA – M3

APPLICATION

Battlefield surveillance; Targets coordinates acquisition; Target velocity computation; Magnetic North alignment;

COMPOSITION

- *Optical sighting system*
- *Laser rangefinder*
- *Electronic goniometer*
- *Digitally control and computation unit*
- *Adjustable tripod*
- *CdNi battery module*
- *Compact box for easy system transport (battery charger included)*

TECHNICAL CHARACTERISTICS

Optical sighting system

• objective diameter	70 mm
• field of view	7°
• magnification	12x
• dioptric setting	±5

Laser rangefinder

• Maximum Range	20 Km
• Minimum Range	300 m
• Range Resolution	5 m
• Laser Type Wavelength	1.06μm (YAG-Nd^{3+} glass)
• Pulse rate, average	10 ppm
• Range logic	3 target on the aiming axis
• Power Consumption	
- Firing	
- Average	< 0.4 A
- Peak	< 4.5 A
- Idle	< 0.1 A

Electronic goniometer

• azimuth measurement	0 ÷ 6000 mil.
• elevation measurement	- 450 ÷ + 450 mil.
• accuracy angle measurement	0.5 mil
• accuracy of MAGNETIC NORTH direction	3 mil.

Digitally control and computation unit

• The maximum coordinate conversion error from spherical to rectangular	±1m
• Target velocity measurement	5 ÷ 99.5 m/s
• Storage of rectangular coordinates	< 64 targets
• Data Interface	RS - 232

Adjustable tripod

• Maximum height	1.2 m
• Minimum height	0.3 m
• Weight	3.5 kg

CdNi battery module

• Nominal voltage	13.2 VDC
• Nominal capacity	5 Ah
• Weight	1.8 kg

ENVIRONMENT

• Operating temperature	- 30 ^{o}C - +65 ^{o}C.
• Storage temperature	- 50 ^{o}C - +65 ^{o}C.
• Humidity	95 ÷ 98% at 40^{o}C.

PHISICAL CHARACTERISTICS

- Length: 445 mm, width: 470 mm, height: 320 mm, weight less than de 16 Kg.