

Artillery Electronic Goniometer

Visual observation is the basic and most numerous form of artillery scouting from the land, which employs artillery units, artillery reconnaissance units and forward observers from infantry or mechanized units for collecting scout data on the enemy and the land necessary for securing the combat operations of artillery units, their development for the battle, planning and execution of their fire mission tasks.

AEG consists of 5 basic parts:

- 1. Sensor Head, FOU-SH,
- Goniometer, FOU-G,
- 3 .Power supply,
- 4. Tripod,
- 5. Tablet PC.

Basic technical data:

Sensor head (SH):

Optical sight

field of view: 7°
magnification: 7x
diopter adjustment: ±5

Laser rangefinder:

laser wavelength: 1064 nm
laser energy: 15 mJ
laser beam divergence: 1.3 mrad
distance measuring range: 180-20000 m

distance measuring accuracy: ±5 m
 measured distance display: for 2 targets

measuring distance frequency: max 6 measures/min
* target size of 2,3 m x 2,3 m with 30% reflectivity at a

visibility of 20 km

Digital magnetic compass:

• north accuracy in horizontal pozition (orientation 1)

0,45° (8 mils)

• pitch tilt range ±85°

· pitch accuracy:

measuring range <85° 0,3°measuring range <15° 0,1°

• roll tilt range ±85°

roll accuracy:

measuring range <85° 0,3°measuring range <15° 0,1°

GPS device:

position accuracy in horizontal plane (CEP)
 position accuracy in vertical plane
 4 m*

 * GPS accuracy is without differential, WAAS or EGNOS mode.







Thermal camera

 detector type: uncooled · spectral range: LWIR 7.5-13.5um resolution: 640x512 pixel · field of view: 6,2°x5° · digital zoom: 8x, 16x,32x, 64x · lens: 100 mm Display: digital TFT LCD type 3.5" display size resolution 480x272 pixel

Goniometer (G):

range of measuring angles in horizontal plane: 0-6400 mils
 accuracy of measuring angles in horizontal plane: 1 mils
 range of measuring angles in vertical plane: ± 500 mils
 accuracy of measuring angles in horizontal plane: 1 mils
 bubble lever sensitivity: 2'/2 mm
 input power: 20-36 V DC
 mass: 7 kg

Tripod:

• plate height:

· dimensions:

with fully extended and spaced legs
 with drawn in and spaced legs
 mass
 1630 mm
 520 mm
 2,4 kg

370x280x190 mm

FOU (integrated):

operating temperature: -20°C to +55 °C
 power supply: Li-ion 25,2 V 6,8 Ah
 power input: (external): 22-29 V DC
 interface: RS 232
 power consumption: 0,5 A, max. 3 A (impulse)

• mass (FOU-SH, FOU-G, FOU- Power supply, tripod):21 kg





