60mm Mortar Optical Sight

AET-MS-60





The AET-MS-60 sight uses a holographic two-point rapid aiming method. An internal spatial attitude sensor measures the firing angle and direction deviation, and azimuth correction is applied from several parameters. The sight is an innovative approach to spatial measurement and aiming, built for the rapid response and precision strike that modern warfare demands. It mounts on different mortars through a choice of sight brackets and accurately applies range and azimuth correction according to the firing conditions.

Key features

- ***Precision Dual-Axis Adjustment:*** *It provides precise elevation from 45 to 85° and azimuth correction within a ±200 mil range.*
- ***Robust Optical Telescope:*** *Features a 2x magnification and 11° field of view for clear target acquisition. Its optical system projects a collimated image for fast and accurate aiming.*
- ***Integrated Night Illuminator:*** *An illuminator lights the graduation lines and bubble, enabling effective nighttime operations.*
- ***Durable and Field-Ready Construction:*** *Built to perform reliably in extreme temperatures.*
- ***User-Calibrated for Accuracy:*** *The sight can be zeroed by the user to maintain precision after sustained use or transport.*
- ***Complete Operational Kit:*** *It is supplied with a protective carrying case, illuminator, and cleaning tools. This all-in-one kit ensures readiness and simplifies maintenance in the field.*

Specifications

Parameter	Value
Magnification	2×
Field of view	11°
Exit pupil diameter	4 mm
Exit pupil distance	20 mm
Resolution	≤ 25"
Azimuth adjustable range	±200 mil
Azimuth accuracy	≤ 3 mil
Angle of elevation	45° ~ 85°
Elevation accuracy	≤ 2 mil
Working temperature	-40°C ~ +50°C
Storage temperature	-50°C ~ +70°C
Reticle	Crosswire (with illuminator)
Objective lens diameter	10 mm
Diopter adjustment of ocular	(–0.5) ~ (–1) Fixed scale
Inclination angle vertical plane	≥ ± 20°
Coarse scale	Rear sight (pitch indicating ring): 100 ~ 1100 mil, each graduation 100 mil
Precise scale	1 mil
Weight sight only	400-450 g
Weight kit in packing	750 g
Dimension	Folded - 70x 85 x 100 mm Extended - 70 x75 x 145 mm
Mount / interface with weapon	Dovetail, Plug-type or Picatinny-type
Kit components 1x Sight, 1x Illuminator, Carrying case, Spares Kit, lens cloth and screw driver.	

The complete sight kit is packed in a protective carrying case suited to field conditions such as light rain. Each kit includes the sight, an illuminator, an adjustment screwdriver and a lens cloth. Spares such as a bubble level, a spare rubber eye shield and adjustment screws are supplied separately with each kit.



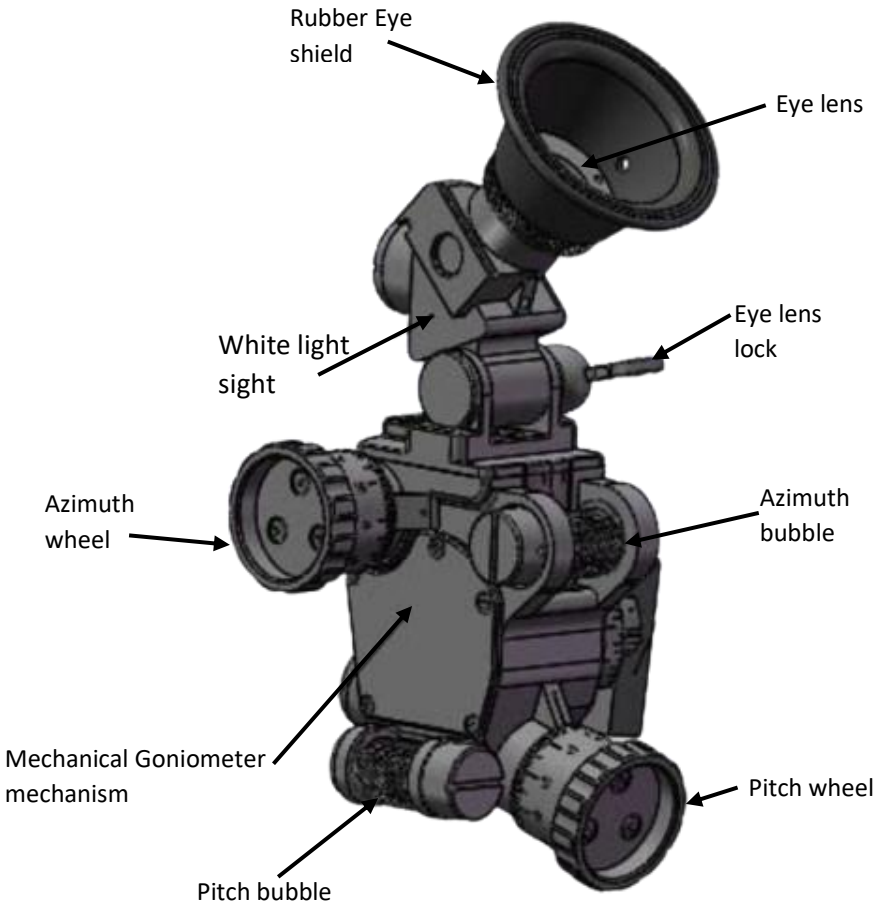
Illuminator

The illuminator provides the graduation illumination and the reading illumination of pitch, azimuth graduation line and bubble when the sight is used at night.



Working principle

The optical telescope focuses the target image on the reticle after being diverted by the optical lens and the Roof Prism, and the target image and the reticle are collimated into parallel rays through the eyepiece and aimed by human eyes. The operator can adjust the pitch and azimuth mechanism according to the target distance to achieve fast and accurate aiming.



Installation Interface type

To get installed on to the launcher, three different versions of the installation interface are provided. A new interface can be provided if drawings are provided for different size / design.



Dovetail-type	Plug-type	Picatinny-type