

# NEOMETRIX

## About Neometrix Optical Balloon Theodolite

- In common with other land based balloon theodolites the Neometrix theodolite OT-NEA3060 has a telescope with a bent optical axis. A secondary wide-angle telescope using the same eyepiece is selectable with a mirror. There are two pins on the tip of this instrument that serve as contacts to an attachable battery case. The Photo shows the theodolite with the battery case attached.
- In the photo above you can see the bubble level directly under the two switches. The switches control illumination of the reticule and the circles.
- You can see the accessories for this instrument, filters for the eye piece, the key to the case, lens shade, lens cap and a plumb bob. Also note the hook for hanging a stopwatch and the magnifying glass to assist reading the circles.
- Distinguishing features of the OT-NE-A3060 theodolite are the use of a Pentagonal Prism in the bent axis telescope, which allows for better stability of the optical alignment, a closed circle design for durability, two levels of magnification offering wide and narrow fields of view (accomplished with a switchable finder scope using the same eyepiece with two objectives) and a lined gradicule supporting the tail method of altitude determination. The placement of the azimuth and elevation circles directly above each other as well as the use of Micrometer drums facilitates rapid determination of Azimuth and elevation directly to the 10th of a degree.

Drive Type	: Positively Engaging Tangent Screw
Compass	: No
Display Type	: Micrometer 1 degree
Levels	: 1 Inst body plate circular, 1 Inst, body bubble tube
Main Telescope	: 40 mm 21 x 2deg.
Mounting	: Tribrach
Finder Telescope	: 12.5mm 5x8deg. Single eyepiece
Illumination	: 2, 3 Volt lamps, scales reticule
Gun Site	: Yes 1, on finder telescope
Weight (theodolite only)	: 6.7 KG

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## TECHNICAL DETAILS

Wide, 5x Magnification with a 8 Deg.  
field of view Narrow, 21x Magnification with a 2 Deg.  
field of view Circle graduated in 0.5 Deg.,  
Micrometers in 0.1 Deg.  
Weight: 6.7KG Instrument



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## KEY FEATURES

- OT-NE-A3060 theodolite is a kind of precision optical instrument. It is vitally important to use the instrument properly. The following is advisable.
- Open the container. Lift out instrument, place on tripod and with one hand still holding the instrument, attach by means of tripod fixing screw. The fixing screw should not be overtighten. Close the container.
- When not in use, the instrument should be kept in the container. The store should be dust proof, have good air circulation and low humidity.
- If the OT-NE-A3060 is to be used to the limit of its precision, the plate level should be protected from direct sun rays.
- Blow dust off lenses then wipe very carefully with clean cotton wool to remove moisture or oil.
- In extreme cold, when instrument is taken indoors or outdoors, don't lift it out immediately, but leave it in the container for a while.
- Wipe a wet instrument carefully. Remove it from container and allow it to dry out completely. Never keep a wet instrument in the container. This helps to prevent mildew.

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## Application

Neometrix Optical Balloon Theodolites used in Indian Air force.



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