



1" Micro Optical Theodolite



Advanced Surveying Instruments (India) Pvt. Ltd.

Applications:

1" micro optical theodolite is a kind of precision angle-measuring instrument. It plays a very important orle in geodesic survey and engineering measurement, therefore it is widely used in third-order, fourth-order trainglulation, building, roadwork, pipe playing, trnnelling, mining, cadastral survey as well as machine tooling and installation etc.

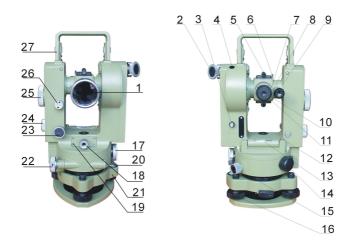
Technical data:

Accuracy	
Standard deviation in horizontal direction	±1"
measured	
at face left and face right	
Standard deviation in vertical angles	±1"
measured at	
Face left and face right	
Telescope	erect image
Clear objective aperture	40mm
Magnification	30×

Field of view at 1000m	24m	
Shortest focusing distance	2m	
Multiplication factor	100	
Additive constant	0	
Grass Circles	360°	
Graduation diameter:		
HZ circle	90mm	
V circle	70mm	
Graduation interval of HZ and V circles	20′	
Smallest interval of optical micrometer	1"	
Automatic Vertical Index		
Setting accuracy	±0.3"	
Working range	±0.3′	
Reading Microscope		
Magnification:		
HZ system	48×	
V system	62×	
Bubble sensitivity per 2mm run		

Circular level	8′	
Plate level	20"	
Optical Plummet		
Magnification	3x	
Angular field of view	7°30	
Focusing range	0.3 - 6m	
Weight		
Net weight	6kg	
Gross weight	9kg	

Nomenclature



- 1. objective 15. vertical clamp 2. illumination mirror 16. footscrew 17. illumination mirror 3. press button 4 cover
- 18. optical plummet 5. optical sight 19. cover
- 6 level 20 circular bubble
- 7. bayonet ring 21. adjustment screw 22. horizontal drive 8. adjustment screw
- 9. eyepiece of microscope 23. vertical drive
- 10. eyepiece of telescope 24. change-over knob 25. micrometer knob 11. focusing sleeve
- 12. adjustment screw 26. horizonatal clamp
- 13. plate level 27. carrying handle
- 14. Hz circle drive