

# THEODIS

## Theodis ERT-5 Electronic Reflectorless Theodolite



<b>Telescope</b>		
Length		158mm
Image		Erect
Resolving power		3.4"
Magnification		30X
Effective dia. of objective		Ø 45mm (DTM 50mm)
Field of view		1° 20'
Shortest focusing distance		1.7m
<b>Distance Measurement (under fair weather condition)</b>		
Laser wave length		650-690nm
Spot size at 50m		12mm/50m ellipse
Laser class		Class 2(IEC 60825-1)
Measuring Range (good condition)	Reflectorless (White target / KODAK CAT No:E1527759)	1 to 60m (90% reflective)
	Reflective sheet/RP30	1 to 500m
	Reflective sheet/RP60	1 to 700m
	Reflective sheet/RT50SK	1 to 600m
	Mini-prism	1 to 1200m
Accuracy	Single-prism	1 to 5000m
	Fine	3mm+3ppmxD
Minimum Count	Tracking	10mm+3ppmxD
	Fine	1mm or 0.005ft
Distance Unit	Tracking	10 mm or 0.05ft
	Single	ft. or m selectable
Measuring Time	Tracking	1.2 sec ( Initial 3 sec. )
	Single	0.5 sec.
Maximum display		999999.999 m
Atmospheric correction		Input directly (ppm)

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<b>Angle measurement</b>	
Angle measurement mode	Photoelectric detection by increment encoder
Angle unit	360°/400gon/mil, selectable
Mode of detection	Horizontal angle : Daul ; Vertical angle: Single
Precision	5"
Minimum count	1" or 5"/0.2mgon or 1mgon/0.005mil or 0.02mil
<b>Measurement programs</b>	Angle/distance measurement
	Missing Line measurement
	Remote elevation measurement
	Area measurement
<b>Sensitivity of vials</b>	
Sensitivity of plate vial	30" / 2mm
Sensitivity of circular vial	8' / 2mm
Vertical Compensation	Available
Type	Liquid-electric detection / Plate level
Compensation Range	± 3'
Resolution	1"
<b>Laser plummet</b>	
Accuracy	±0.8mm/1.5m
Laser class	Class 2(IEC 60825 -1)
Laser wave length	635nm~ 670nm
Laser spot size/intensity	Adjustable , Focus (1m-2m) , Power (0-0.7mW)
<b>Display</b>	
Type -	LCD , 4 lines, 16 characters
Illumination	Electroluminescence lamp (EL)
Keyboard	Graphics keys
<b>Data input/output</b>	
Data interface	No
<b>Power</b>	
Battery	NiMH Rechargeable
Voltage	7.2 V DC
Operation Time	Continuous disance/angle measurement 4hours
	Angle measurement only 12 hrs.
Charging Time	Approx 3.5 hours
Operation Temperature	- 20°C to + 50°C
Tribrach	Shift tribrach
Tripod Thread	5/8"
Water resistance	IP54 (IEC 529)
Weight(include batteries)	5.3kg