



**TOTAL STATION
DTM-152M**

SPECIFICATIONS

Telescope	DTM-122A		DTM-152M
Length	150mm		
Magnification	30X		
Image	Erect		
Shortest sighting distance	1.0m		
Additive constant	0		
Objective lens aperture	φ48		
Resolving power	3.75"		
Field of view	1°30′（26m/1000m）		
Stadia proportion	100		
Angle measurement section			
Horizontal angle panel	Photoelectric incremental rotary encoder scanning, adopt diametrical detection		
Vertical angle panel	Photoelectric incremental rotary encoder scanning, with absolute 0 index point		
Minimum display	1″，5″，10″		
Accuracy	2″，5″，10″		
Compensator			
Type	Single axis liquid tilt sensor		
Range	±3′		
Accuracy	±1″		
Display resolution	According to angle display resolution		
Distance measurement section			
Measuring range	Average weather condition, visibility about 23.5km		
Single prism	1000m	2000m	
Three prism	1600m	2800m	
Minimum display	Accuracy measurement mode: 1mm		
	Track mode: 10mm		
Accuracy	±（3mm+2ppm•D）		
Measuring time			
Accuracy measurement mode	2 秒		
Track mode	0.8 秒		
Display			
Display equipment	Double sides 20-digit, 4-line dot matrix LCD panel with background illumination		
Horizontal angle display range	0°~359°59′ 59″		
Vertical angle display range	0°~359°59′ 59″ 或 0°±89°59′ 59″ -999.99%~999.99%		
Applied measuring module			
Recession module	Area measure module		
Coordinate measuring module	Offset measurement module		
Laying-out	Missing line measurement module		
Remote elevation measurement module	Memory≥15,000 dots		
Measuring mode			
Horizontal angle	Left angle, right angle, set mode		
Vertical angle	Zenith 0°, horizontal 0°, horizontal 0°±90°,slope%		
Measure time	Less than 0.5 second		
Angular unit	degree, gon, mil		
Others			
Level sensitivity	Plate level: 20″ /mm, 30″ /mm		
	Circular level: 8′ /2mm		
Optical plummet	Image: Erect		
	Magnification: 3X		
	Shortest focus: 0.5m		
Data output	Asynchronous serial in RS-232/USB(option)		
Height	232mm		
Weight	6.2kg		
Power supply	Rechargeable battery: BDC1800mAh, 6v (Ni-MH Battery)		
Battery working time	Distance measuring time: 6 hours		
	Angle measuring time: 100 hours		
Note:A with compensator ; B without compensator			

