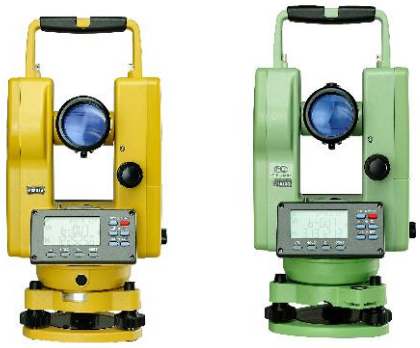
ELECTRONIC THEODOLITE DE SERIES

SPECIFICATIONS

The DE Series model numbers that reflect angle accuracy and have common features. All models have dual displays，and a detachable tribrach. Horizontal and vertical angles can be observed simultaneously on the large LCD displays. Other standard features include a horizontal angle zero set， automatic power off to conserve batteries，and a battery Iife indicator on the LCD display.



Model	DE2A/B	DE5A/B
Telescope		
Length	165mm	165mm
Objective lens aperture	ϕ45mm	ϕ45mm
Magnification	30X	30X
Image	Erect	Erect
Field of view	1° 30′	1° 30′
Resolving power	3.3″	3.3″
Shortest sighting dictance	1m	1m
Additive constant	0	0
Stadia proportion constant	100	100
Angle measurement : Minimum reading	1″ /5″	1″ /5″ /10″
accuracy	2″	5″
Display mode	Double sides display	Double sides display
illuminiation	Provide	Provide
Compensator		
Tilt sencor	A Provide / B unprovide	A Provide / B unprovide
Compensating range	±3′	±3′
Optical plummet		
Magnification	3X	3X
Field of view	5°	5°
Focusing range	0.5m～∞	0.5m～∞
Level sensitivity		
Plate level	30″ /2mm	30″ /2mm
Circle level	8′ /2mm	8′ /2mm
Output interface	RS232C	RS232C
Power supply: Rechargeable battery	1800mAh Ni-MH	1800mAh Ni-MH
Battery working time	10-20h	10-20h
Waterproof class	IP45	IP45
Tribrach type	Detachable	Detachable
Working temperature range	-20℃～+50℃	-20℃～+50℃
Dimension	150X165X335	150X165X335
Weight	5kg	5kg

LASER THEODOLITE DE-L SERIES

Features:

Good visibility of the laser line.

·Large LCD display.

·Independent lift sensor can auto-corrected.

·More convenience when the instruments are combined with the Diagonal Eyepiece.

·International common function modes are adopted to make operation simple and standard.

·Connected with electronic book makes data to be auto-recorded and auto-processed maps.

Specifications:

Model	DE2A/B-L	DE5A/B-L
Telescope		
Length	165mm	165mm
Objective lens aperture	φ45mm	φ45mm
Magnification	30X	30X
Image	Erect	Erect
Field of view	1°30′	1°30′
Shortest sighting distance	1m	1m
Stadia proportion constant	100	100
Angle measurement		
Minimum reading	1″ /5″	1″ /5″
accuracy	2″	5″
Display		
Display mode	Dual displays	Dual displays
Illumination	Provide	Provide
Compensator		
Tilt sencor	A Provide / B unprovide	A Provide / B unprovide
Compensating range	±3′	±3′
Laser plummet		
Effective distance	150m	150m
Light dot	5mm/100m	5mm/100m
Power	3V(DC)	3V(DC)
Working temperature	-10℃～+45℃	-10℃～+45℃
Output interface	RS232C	RS232C
Power supply		
Rechargeable battery	1800mAh Ni-MH	1800mAh Ni-MH
Battery working time	10-20h	10-20h
Waterproof class	IP45	IP45
Tribrach type	Detachable	Detachable
Working temperature range	-20℃～+50℃	-20℃～+50℃
Dimension	150X165X335	150X165X335
Weight	5kg	5kg

ELECTRONIC TOTAL STATION DTM100 SERIES

SPECIFICATIONS

Telescope		
Length	150mm	
Magnification	30X	
Image	Erect	
Shortest sighting dictance	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		
Measureing range	Average weather condition, visibility about 23.5km	
Single prism	1000m	1800m
Three prism	1600m	2600m
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	

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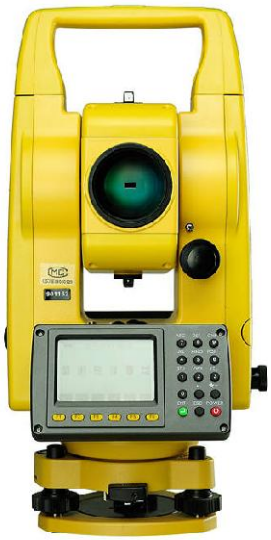

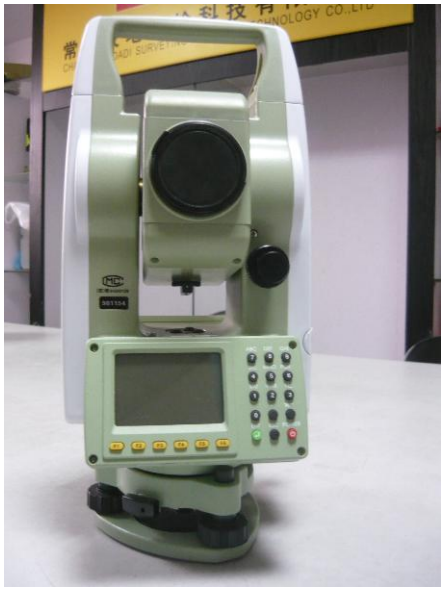

DTM622R Reflector-less Total station

Feature

Designed by the newest technology

fast speed to make the measurement more quickly. Safety laser and large LED display. to protect the eyes of the surveyor. Plenty of applied software to achieve kinds of measurement.

·Laser beam focused in non-prism mode for 300m distance.
·Strong software to help to achieve the measurement.
·RS232 or USB ports for option.
·Good laser to protect the eyes of the surveyor.
·Large LED display.

Parameter

Distance Measurement		
Maximum (In bright light condition)	Non-prism	0～200m
	Single prism	2500m
	Three prism	5000m
Display		(Max)：99999999.9999
Accuracy	Non-prism	5+3ppm
	With prism	2+2ppm，3+2ppm
Measuring time		(Accurate):2(second) (Track)：0.8(second)

Atmospheric Correction	Input parameter and seld-correcting
Prism Constant Correction	Input parameter and seld-correcting
Angle Measurement	
Method	Absolute Reading
Detection method	(Horizontal circle)：(antipodal) (vertical circle)：(antipodal)
Minimum reading	1″,5″
Accuracy	2″,5″
Telescope	
Image	Erect
Length	170mm
Objective lens aperture	48mm
Magnification	30×
Field of view	1°30′
Resolving power	3.5″
Shortest sighting distance	1.5m
Compensator	
Type	single axis liquid tilt sensor
Range	±3′
Accuracy	±3″
Level	
Plate level	20″/2mm,30″/2mm
Circular level	8′/2mm
Display	
Type	Double 240x160 dots graphic LCD
Battery	
Power	High-capacity rechargeable Li-battery/Ni-MH battery
Voltage	(Li-battery)：DC7.6V，(Ni-MH battery)：DC7.2V
Battery life	10 hours
Size and weight	
Size	174×207×383mm
Weight	6．8kg