TINPENG

TOTAL STATION DTM-752R

The total station is a surveying instrument that combines an electronic theodolite and an electronic distance meter (EDM) to provide accurate measurements of both horizontal and vertical angles as well as distances. It is commonly used in construction, engineering, and land surveying projects to collect data for creating detailed maps, plans, and 3D models.

TECHNICAL SPECIFICATIONS

Distance measurement		
Maximum distance	Singles prism	3.0 Km
	Three prisms	5.0Km
	No-prism	400m/600m
Digital display		Max:99999999.9999 m Min.:0.1 mm
Precision		No-prism 5+3ppm, prism 2+2ppm
Unit		m/ft for selection
Time for measuring		Single fine measurement 2 S. tracking 0.8 S
Number of measurements		1~99
Meteorologic correction		Automatic correction of input parameter
Atmospheric refraction and earth curvature correction		Automatic correction of input parameter, K=0.14
Prism constant correction		Automatic correction of input parameter
Angle measurement		
Angle measurement method		Absolute code
Grating disc dia. (horizontal, vertical)		79mm
Min. reading displayed		1"
Detection method		Horizontal circle:2 sides Vertical circle:2 sides
Precision		2”
Telescope		
Imaging		Right reading
Barrel length		170mm
Objective lens effective aperture		48mm
Magnification		30×
Viewing angle		1°30'
Resolution		3.5”
Min. focus distance		1.5m
Automatic vertical compensator		
System		Single axis, double axis liquid electronic sensor compensation
Operating range		±3'
Accuracy		±3”
Level		
Level tube		20”/2mm,30”/2mm
Circular vial		8'/2mm
Optical plummet		
Imaging		Positive image
Magnifying ratio		3×
Focusing range		0.5m~
Field angle		5°
Display		
Type		Two sides, graphically
Data transmission		
Interface		RS-232C
Battery		
Power supply		Rechargeable Ni-MH battery, rechargeable lithium battery
Volt.		Lithium battery: DC7.6V; Ni-MH battery: DC7.2V
Continuous operation time		8hours
Size and weight		
Overall dimensions		174×207×383mm
Weight		6.8kg

SINCE 2006

ZHUOZHOU TIANPENG INSTRUMENT MANUFACTURING CO., LTD.
Website: www.testmould.com Tel:+86-312-3852880

TINPENG

TOTAL STATION DTM-624

The total station is a surveying instrument that combines an electronic theodolite and an electronic distance meter (EDM) to provide accurate measurements of both horizontal and vertical angles as well as distances. It is commonly used in construction, engineering, and land surveying projects to collect data for creating detailed maps, plans, and 3D models.

TECHNICAL SPECIFICATIONS

Distance Measurement Section		
Single prism		2000m
Three prism		3200m
No prism		400m
Accuracy		Prism: ±(3mm+2ppm·D)
		No prism: ±(5mm+3ppm·D)
Unit		m／ft
Display	Maximum	999999.999m
	Minimum	1mm
Measuring time		Precise model:2S, track model:0.5S
Number of time Set		1~99
Meteorologic correction		Input the value and correct automatic
Prism constant		Input the value and correct automatic
Angle Measurement Section		
Method		Absolute coding
Grating diameter		74mm
Minimum reading		1″
Measuring unit		360°
Detection		Diametrical detection
Accuracy		2″
Telescope Section		
Light source		Lasser
Imaging		Positive
Length		165mm
Effective aperture		48mm
Magnification		30×
Distinguishability		3.75″
Minimum focus distance		1m
Stadia ratio		100
Vial		
Plate vial		20″/2mm
Circular vial		8′/2mm
Vertical Compensator		
System		Single axis tilt sensor
Working range		±3′
Distinguishability		1″
Optical Plummet		
Magnification		3×
Focusing range		0.3m~∞
Field of view		5°
Display Section		
Type		Double sides,160×80 LCD Display
Data Transmission port		USB, RS-232C
On-board Battery		
Power resource		Rechargeable Ni-H battery
Voltage		DC7.2V, 3000mAh
Continuous working time		Angle measurement: 20 hours
		Distance measurement: 8 hours
Operation Environment		Operation Environment
Working temperature		-20℃~45℃
Size & weight		Size & weight
Dimension		180×175×355mm
Weight		6.5Kg

SINCE 2006

ZHUOZHOU TIANPENG INSTRUMENT MANUFACTURING CO., LTD.
Website: www.testmould.com Tel:+86-312-3852880

TINPENG

TOTAL STATION DTM-152

The total station is a surveying instrument that combines an electronic theodolite and an electronic distance meter (EDM) to provide accurate measurements of both horizontal and vertical angles as well as distances. It is commonly used in construction, engineering, and land surveying projects to collect data for creating detailed maps, plans, and 3D models.

TECHNICAL SPECIFICATIONS

Distance Measurement Section		
Range	Single prism	3000m
	Three prism	5000m
Accuracy		±(2mm+2ppm·D), ±(3mm+2ppm·D)
Unit		m／ft
Display	Maximum	99999999.9999m
	Minimum	0.1mm
Measuring time		Precise model:1S, track model:0.8S
Number of time Set		1~99
Meteorologic correction		Input the value and correct automatic
Prism constant		Input the value and correct automatic
Angle Measurement Section		
Method		Absolute coding
Grating diameter		79mm
Minimum reading		1″
Detection	Horizontal	Diametrical detection
	Vertical	Diametrical detection
Accuracy		2″
Telescope Section		
Imaging		Positive
Length		170ｍｍ
Effective aperture		48mm
Magnification		30×
Angle of vision		1.5°
Distinguishability		3.5″
Minimum focus distance		1.5m
Compensator		
System		Double axis photoelectric tilt sensor or Single axis liquid tilt sensor
Working range		±3′
Distinguishability		1″
Display Section		
Type		Double sides,160×80 LCD Display
Data Transmission		
Port		USB，RS-232C
Capacity		40,000 data at least
Others		
Plummet		Optical or Laser plummet
Power		Rechargeable lithium battery, DC7.2V,3000mAh
Continuous working time		8 hours at least
Size		168×165×348mm
Weight		6.8Kg
Working temperature		-20℃~50℃

SINCE 2006

ZHUOZHOU TIANPENG INSTRUMENT MANUFACTURING CO., LTD.
Website: www.testmould.com Tel:+86-312-3852880