

RUIDE

CATALOGUE



PROFILE

Established in 1995, RUIDE Surveying Instrument Co., Ltd is an R&D and production-oriented enterprise focusing on technology-intensive mechanical and optical-electrics measuring instruments. Aimed to meet a wide range of precise and cost-effective requirements, RUIDE offers a complete product line of total station, electronic theodolites, hand-held laser distance meter, digital level, etc.

Most recognized for providing quality and liable instruments, RUIDE is committed to provide dependable and economic solutions and services to surveying industry, as is captured by its slogan:

Rapidity Utility Integrity Durability Essentiality
Rapidity of response,
Utility of function,
Integrity of technology and user-friendly operation,
Durability of product life,
Essentiality of entrepreneurship, are the commitments of RUIDE.

With leading edge technology and outstanding performance of product, RUIDE earns a high reputation in Chinese surveying mapping industry.

RUIDE attaches great importance on consumer-satisfaction. We are establishing a wide sales and service network in the world, devoting ourselves to providing the fastest and most professional sales services as well as technical support to various users overseas.



RUIDE AT A GLANCE

R&D

With a professional R&D team, RUIDE is dedicated to researching and inventing in the fields of mechanical design, optic-electrics technology, radio technology, computer and communications, in order to update our product performance to the time.



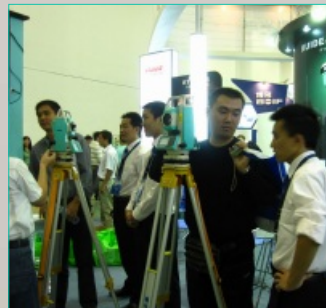
Technical Support & Aftersales Service

We have a group of talented technical personnels who always keep in touch with authorized distributors and provide complete technical support such as maintenance training, software updating, and supplying spare parts. Futhermore, our authorized distributors are also capable to provide direct and fast technical support and aftersales service to users including demonstration, problem-shooting, calibration and maintenance, etc.



Promotion

To keep up with the marketing strategy, RUIDE periodically releases the latest product news in significant GIS magazines, as well as actively participates in various international GIS related exhibition.



TOTAL STATION

RTS-860R SERIES



- 3.0" color and touch dual screens
- User-friendly operation interface
- 2"/5" angle accuracy
- 350m reflectorless range
- Dual axis compensator
- Temperature & pressure sensor
- Bluetooth®
- SD card, USB, mini-USB interfaces

Specifications

model	RTS-862R	RTS-865R
TELESCOPE		
image	erect	
magnification	30x	
effective aperture	45mm (distance meter: 50mm)	
resolving power	3"	
field of view	1°30'	
minimum focus	1.0m	
telescope length	152mm	
ANGLE MEASUREMENT		
measuring method	absolute encoding	
diameter of disk	79mm	
minimum reading	1" / 5"	
detection method	horizontal: dual vertical: dual	
unit	360	
vertical angle 0°	360°/400gon/6400mil	
accuracy	2" / 5"	
DISTANCE MEASUREMENT		
single prism	5km	
triple prism	7km	
reflecting sheet	800m	
reflectorless	350m	
unit	m/ft	
accuracy	±(2+2x10 ⁻⁶ ·d)mm	
measuring time (initial)	single fine measure: 0.7s; tracking: 0.7s	
measuring system	basic frequency: 80mhz	
wave length	685nm	
atmospheric correction	auto sensing	
atmospheric refraction & earth curvation correction	auto correction.k=0.14/0.20	
reflector constant correction	auto correction	
VIAL		
circular vial	8'/2mm	
plate vial	30"/2mm	
COMPENSATOR		
system	dual axis photoelectric detection	
compensating range	±4'	
resolving power	1"	
OPTICAL PLUMMET (OR INTERNAL LASER PLUMMET)		
image	erect	
magnification	3x	
focusing range	0.3m ~ ∞	
field of view	5°	
DISPLAY		
type	3.0" LCD graphics, color and touch	
INPUT MODE		
type	touch screen; alphanumeric keys	
DATA TRANSFER		
serial port	yes	
USB & mini-USB	yes	
Bluetooth	yes	
STORAGE		
internal memory	>10000 points or > 20000 coordinates	
SD card	2G SD card as default	
BATTERY		
battery	Ni-H rechargeable	
voltage	6v (dc)	
operating time	up to 12 hours	
OPERATION ENVIRONMENT		
operation temperature	-20°C ~ +50 °C	
water and dust proof	IP66	
SIZE & WEIGHT		
size	160mm x 150mm x 340mm	
weight	5.4kg	

Technological Superiority



SD Card / USB / mini-USB



Connect with PDA via Bluetooth

The software interface displays several functional screens:

- Coordinates:** Shows measured values for Vertical (V: 132° 43' 51"), Horizontal (HR: 357° 54' 16"), North (N: 9316.526m), East (E: 42763.944m), and Z (801.653m). It includes buttons for 'Meas', 'Mode', 'R. Ht', 'InsH', and 'Strn'.
- Routine Measurement:** Displays a graph of a trapezoidal area with a scale of 2,000 M. It includes buttons for 'Area', 'Res1', and 'Graph'.
- COGO: Area Calculation:** Shows a graph of a curved path with 15 numbered points, used for area calculation. It includes buttons for 'Data' and 'Graph'.
- Road Design:** Displays a circular compensator interface with X and Y axis error values (0.0317 dms and 0.0028 dms) and an '0Set' button.
- E-Bubble:** Shows a bubble level interface for electronic leveling.

TOTAL STATION


RTS-820A/820R³ SERIES



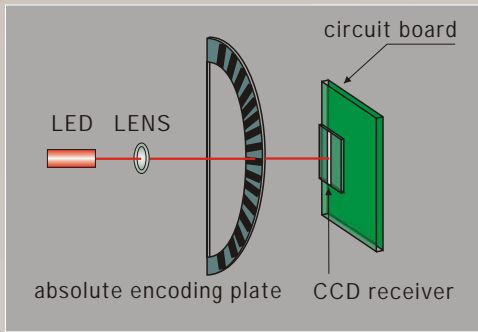
SD/USB Data Transfer



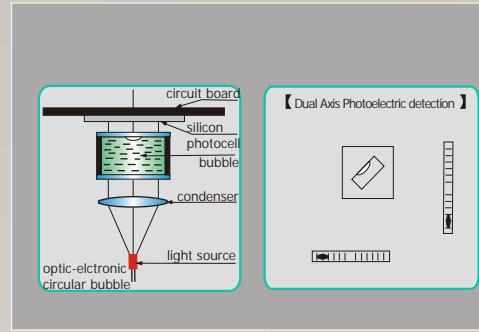
Extend your memory with a SD card.
Download data via USB interface.

- Reflectorless distance range: 350m
- Temperature & pressure sensor
- Dual-axis compensation
-  card supportable

NEW FEATURES



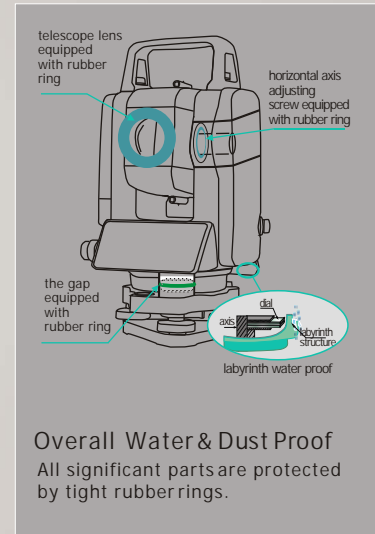
Absolute Encoding
manual initialization free, angle measurement accuracy and reliability improved.



Dual Axis Compensation

Specifications

	RTS-822A/825A	RTS-822R ³ /825R ³
Measuring Range		
Single Prism	2.0 km	5.0 km
Non-Prism	---	350 m
Distance Measurement Accuracy	±(2+2PPM)	
Digital Display	Max: 9999999.999 Min: 1mm	
Measuring Time	Fine:1.2s, normal:0.7s, tracking:0.4s	Fine:0.7s, normal: 0.7s, tracking:0.3s
Measurement System	Basic frequency:60MHZ	
Meteorologic Correction	Input the parameter adjusted automatically	
Atmospheric Refraction and Earth Curvature Correction	Input the parameter adjusted automatically (k=0.14/0.2)	
Prism Constant	Input the parameter adjusted automatically	
Temperature and Air pressure Correction	Manual input	Automatic
Angle Measurement		
Measuring Method	Absolute encoding	
Raster Disk Diameter	79mm	
Min. Reading	1" /5" optional	
Accuracy	2" /5" optional	
Detection Method	Horizontal: Dual Vertical: Dual	
Measuring Unit	360° /400 gon/6400mil Selectable	
Vertical Angle 0°	Zenith 0° / Horizontal 0° Selectable	
Telescope		
Image	Erect	
Length	154mm	
Effective Aperture	Telescope: 45mm Distance meter: 50mm	
Magnification	30X	
Field of View	1° 30'	
Resolving Power	3"	
Min. Focussing Distance	1m	
Auto Vertical Compensator		
System Liquid electric detection	Vertical axis	Dual axis
Range	±3'	±4'
Accuracy	1"	
Level Sensitivity		
Plate Vial	30" /20mm	
Circular Vial	8' /2mm	
Optical Plummet		
Image	Erect	
Magnification	3X	
Focusing Range	0.3m ~ ∞	
Field of View	5°	
Other		
Mini B Port	NO	YES
SD card	NO	YES
Internal memory	>10,000 points>20,000 coordinates	
Display Type	Dual sides, alphanumeric keyboard,LCD, Matrix graphic	
Operation Environment	-20°C ~ +50°C	
Power Supply	Rechargeable Ni-H battery	
Voltage	DC 6v	
Non-stop Operating Time(angle and distance)	8 hours	16 hours



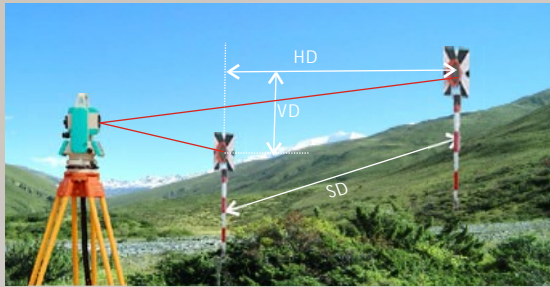
Overall Water & Dust Proof
All significant parts are protected by tight rubber rings.



Sensor of Temperature & Pressure
Take the surrounding temperature and pressure automatically and implement the auto compensation of PPM. Higher accuracy is what we are after.

RTS-860R/820 Series Total Station Abundant Surveying Programs

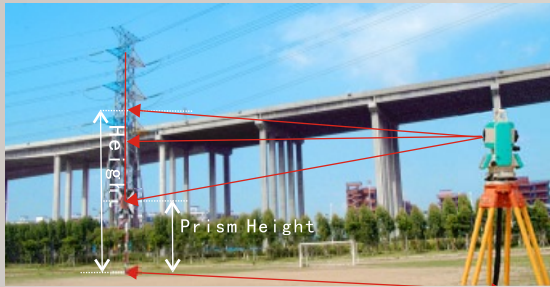
Remote Distance Measurement



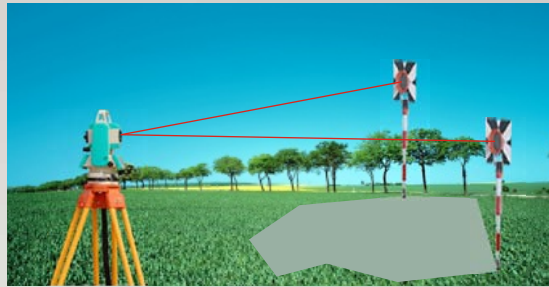
Multiple-Point Resection



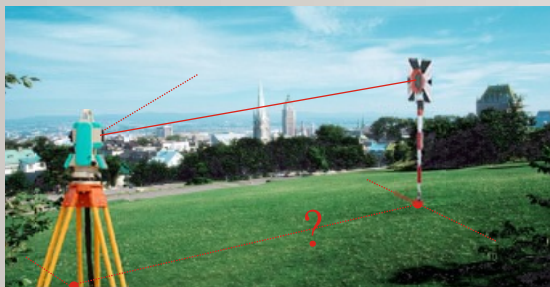
Remote Elevation Measurement



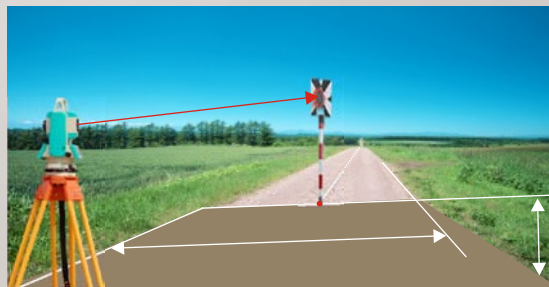
Area(Plan) and Circumference Calculation



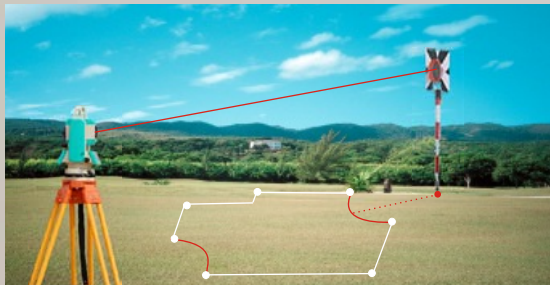
Stake-Out



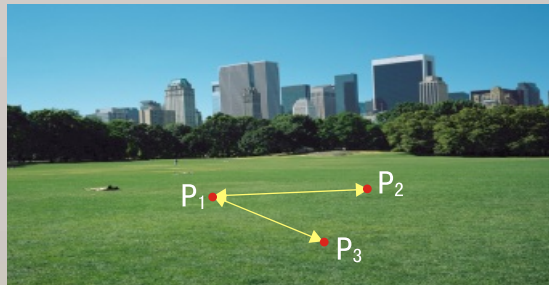
Road Design And Stake-Out



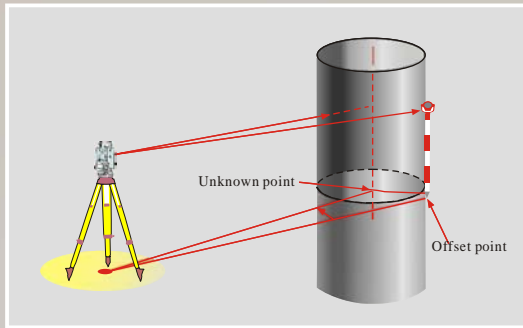
Reference Line & Arc



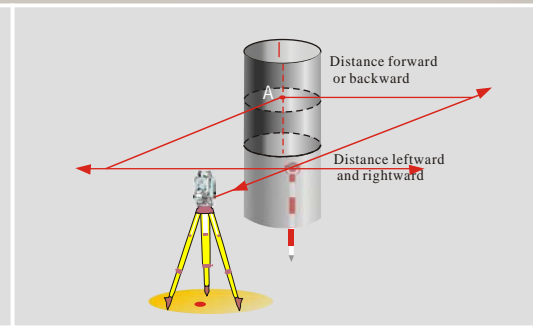
COGO Programme



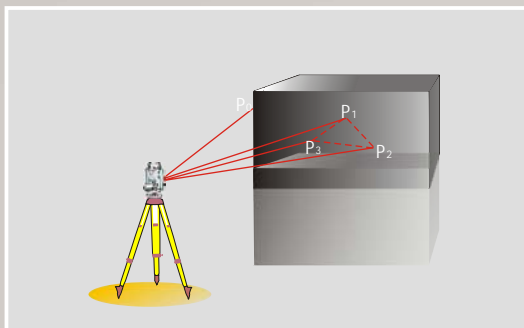
Offset Measurement



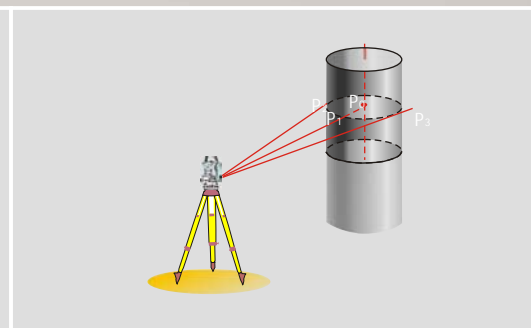
Angle Offset



Distance Offset



Plane Offset



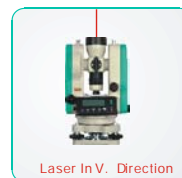
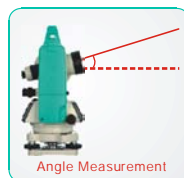
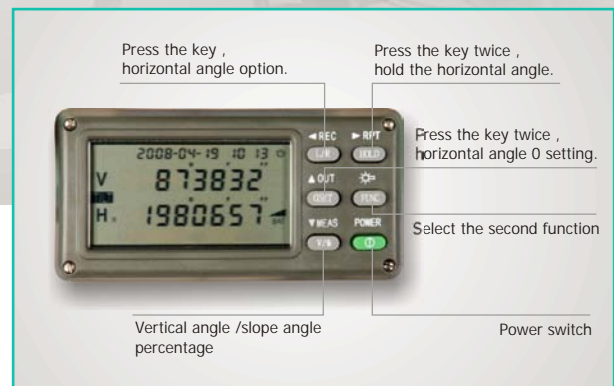
Column Offset

Accessories



ELECTRONIC THEODOLITE

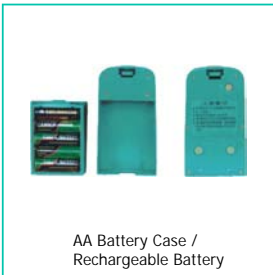
ET-02/05 SERIES



Internal memory system for 256 pairs of H.&V. angle



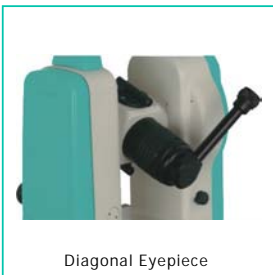
Accessories



AA Battery Case /
Rechargeable Battery



Solar Filter



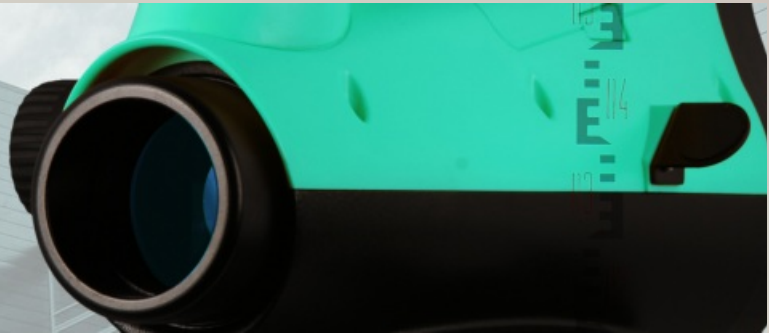
Diagonal Eyepiece

Specifications

	ET-02 /ET-02L	ET-05/ET-05L
TELESCOPE		
Image		Erect
Magnification		30×
Effective aperture		45mm
Resolving power		3"
Field of view		1° 30'
Min. focuse distance		1.4m
Stadia ratio		100
Stadia constant		0
Tube length		157mm
ANGLE MEASUREMENT		
Method	Absolute Encoding	
Diameter of circle(VHz)	79mm	
Minimum reading	1" / 5" / 10" / 20" (Selectable)	
accuracy	2"	5"
	Horizontal angle Vertical angle	Dual Dual Dual Single
DISPLAY		
Screen type	2 sides, segment LCD in two lines	
DATA OUTPUT		
DATA I/O	RS-232C	
LEVEL SENSITIVITY		
Plate level	30" / 2mm	
Circular level	8' / 2mm	
AUTO VERTICAL COMPENSATOR		
System	Liquid-electric detection/ Plate Level	
Compensating Range	±3'	
Accuracy	1 (Liquid-electric detection)30" / 2mm(Plate level)	
OPTICAL PLUMMET TELESCOPE		
Image	Erect	
Magnification	3×	
Focusing range	0.5m-∞	
Field of view	5°	
PHYSICAL CHARACTERISTICS		
Laser pointer	ET-02/05: NO	ET-02L/05L: YES
Temperature range	-20℃ ~ +45℃	
Internal power supply	Ni-MH / AA battery	
Voltage	ET: 6VDC DT:5VDC	
Operating time	10 hours	
Dimension	L165×H318×W157mm	
Weight	4.3kg	

DIGITAL LEVEL

DL-200 SERIES

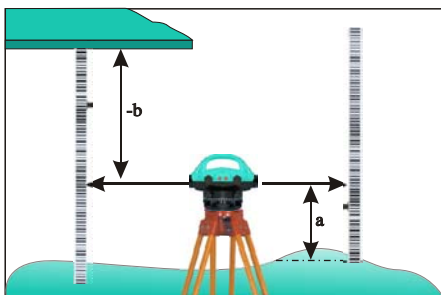
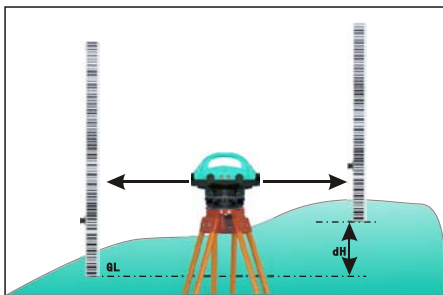


Features

- Automatic reading: Minimize human errors, no more misreading
- High Accuracy: Averaging mode for more accurate results
- Rapidity: Shorten the measuring time by a half
- High Efficiency: Abundant surveying software support, automatic error compensation
- Auto Save: Internal storage or SD card memory optional, paperless working



Mini-USB interface Micro SD card interface



Specification



Model Specification		DL-2007	DL-201	DL-202
Height accuracy (standard deviation for 1km double run leveling)	Digital reading	0.7mm	1.0mm	1.5mm
	Optic reading	2.0mm		
Distance accuracy	Digital reading	D≤10m:10mm;D>10m:D*0.001		
Distance range	Digital reading	1.5m~105.0m		1.5m-100m
Minimum display	Height	1mm/0.1mm		1mm/0.5mm
	Distance	0.1cm/1cm		
Measuring time		<3 second		
Telescope	Magnification	32×		
	Resolving power	3"		
	Field of view	1° 30'		
	Multi-constant	100		
	Add-constant	0		
Compensator	Type	magnetic-damped		
	Range	±12'		
	Accuracy	0.30" /1'		0.50" /1'
Data storage	Storage	16MB		
	Point name	Increasing/decreasing/ user-define		increasing
	Connection	mini-USB/micro SD card		mini-USB
Circular vial accuracy		8'/2mm		
Auto power off		5 minutes OFF		
Horizontal circle	Graduation	1°		
Display		LCD display of 160*64 dpi with illumination		LCD display of 128*32dpi with illumination
Working temperature		-20°C ~ 50°C		
Dimension		230mm(L)×150mm(W)×210mm(H)		
Weight		2.5kg		



AUTO LEVEL

DSZ/RL SERIES



Features

- Excellent shockproof function with patent
- Totally sealed structure for use in any weather
- Exclusive closed magnetic field, magnetic damped compensator.
- Reflector circular vial observation

Specifications

Model	DSZ3	DSZ2	RL20	RL24	RL28	RI32
Standard Deviation for 1 Km Double Run Leveling	1.5mm	1.0mm	2.5mm	2.0mm	1.5mm	1.0mm
Image	Erect		Erect			
Magnification	28x	32x	20x	24x	28x	32x
Objective Aperture	40mm	45mm	38mm			
Field of View	1° 30'		1° 20'			
Minimum Focus	0.6m		0.5m			
Multiplication Constant	100		100			
Additive Constant	0		0			
Compensator Range	±15'		±15'			
Compensator Setting Accuracy	±0.4"	±0.3"	±0.6"			
Sensitivity of Bubble	8' /2mm		8' /2mm			
Horiz.circle-reading	1° or 1gon		1° or 1gon			

Accessories



LASER DEVICE

ML 101 Rotary Laser Level



Features and Functions

- Fully automatic electronic leveling
- Rainproof and dustproof
- Fine calibration function
- Out-of-level alarm ensures the working accuracy
- Adjustable rotating speed of the laser beam
- Rechargeable Ni-MH battery Pack
- Detector is recommended to make the laser ideal for all outdoor and indoor application

Specification

Accuracy	±1mm/10m
Laser Wavelength	635nm
Laser Class	Class IIIA
Leveling Range	±5°
Rotation Speed	0-600 rpm
Duration of usage	Approx 12hrs
Operating Temperature	-10°C~+40°C
Tripod Mount	5/8" x 11
Working Range	300m radius with laser detector
Range Scan	Large angle, small angle and dot
Power Supply	4.8V rechargeable Ni-MH Battery Pack
Protection Class	IP66 (dust and waterproof)
Size	160x170x195mm
Net Weight	2.5kg

RC-10 Plumb Laser



Features and Functions

- Able to be connected with the tripod by 5/8thread
- Project two laser beams (both up and down)
- Simple and easy to use
- Sealed and dustproof
- Used in construction, project supervisor, deformation observation

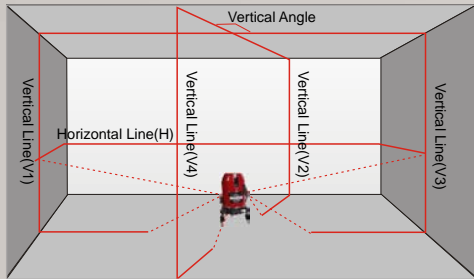
Specification

Accuracy	1/45000
Telescope	
Effective Aperture	36mm
Magnification	25X
Field of View	1°50'
Minimum Focus Distance	0.8m
Image	Inverted
Laser Diode	
Wavelength	635nm
Laser Class	Class IIA
Laser Plummet	
Minimum Viewing Distance	0.5m
Plummet Accuracy	0.5mm/1.5mm
Laser Operation Range	
Day	≥200m
Night	≥250m
Laser Spot	≤3mm/50m
Diviation, Optical and Laser Axis	≤5"
Mean Square Plummet Error	≤5"
Other	
Operating Temperature	-10°C~+45°C
Power Supply	2 AA batteries
Net Weight	2.8kg

ML-300 Series Cross-Line Laser

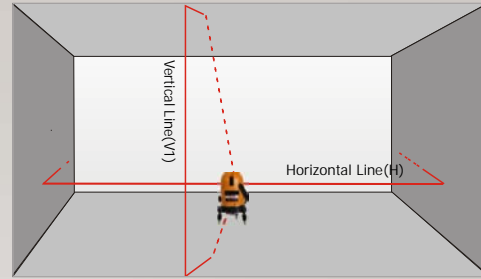


ML-300



SPECIFICATION

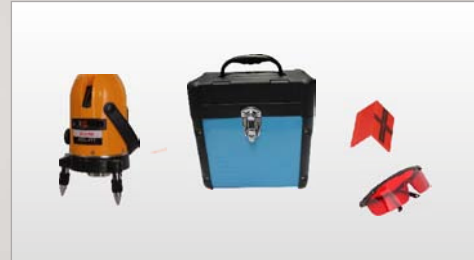
Model	ML-300
Beam	1V 1H
Plumb Beam	N/A
Laser Wavelength	635nm
Laser Class	Class II a
Maximum Power Output	≤1mW
Leveling Accuracy	±1mm/5m
Self-leveling Range	±3°
Working Range	10m/30m(with detector)
Power Supply	3 AAA batteries
Operating Temperature	-10°C~+45°C



ACL-211

Self-Leveling Crossline Laser(1V 1H 1D)

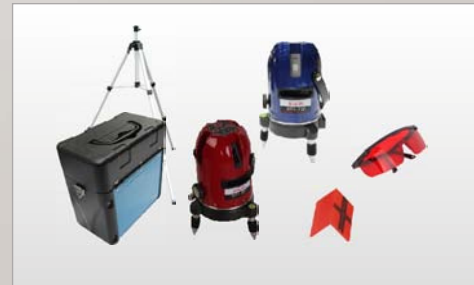
- Beam: 1 horizontal line and 1 vertical line forming a cross at wall Plumb down-beam, with tangent screw
- Wave length: 635mm
- Operating temp: -10°C~50°C
- Leveling Accuracy: ±2mm/10m
- Working Range: indoor, radius 10m:30m(with detector)
- Self-leveling method: Magnetic damping system
- Compensation Range: ±2°
- Power: 3X1.5 V batteries
- Laser flashing and buzzing when self-leveling over range



ACL-221

Self-Leveling Crossline Laser(2V 1H 1D)

- Beam: 1 horizontal line and 2 vertical line, forming cross at wall and ceiling, Plumb down-beam, with tangent screw
- Wave length: 635mm
- Operating temp: -10°C~50°C
- Leveling Accuracy: ±2mm/10m
- Working Range: indoor, radius 10m:30m(with detector)
- Self-leveling method: Magnetic damping system
- Compensation Range: ±2°
- Power: 3X1.5 V batteries
- Laser flashing and buzzing when self-leveling over range



ACL-241

Self-Leveling Crossline Laser(4V 1H 1D)

- Beam: 1 horizontal line and 4 vertical line, forming cross at wall and ceiling, Plumb down-beam, with tangent screw
- Wave length: 635mm
- Operating temp: -10°C~50°C
- Leveling Accuracy: ±2mm/10m
- Vertical Accuracy: ±2mm/10m
- Working Range: indoor, radius 10m:30m(with detector)
- Self-leveling method: Magnetic damping system
- Compensation Range: ±2°
- Power: 3X1.5 V batteries
- Laser flashing and buzzing when self-leveling over range



Packing list

Number	Items	Qty.
1	ACL series Instrument	1 pc
2	3x AA Battery	1 set
3	Laser Glasses	1 pair
4	Target Plate	1 pc
5	Inspection Certificate	1 set
6	User Manual	1 pc
7	Carrying Case	1 pc
8	Detector & Holder (optional)	1 pc
9	Tripod (optional)	1 pc

HAND-HELD DISTANCE METER

PD-5 SERIES



Specifications

	PD-58	PD-56	PD-54
Measuring Range (use target plate for longer range)	0.05 m~80 m	0.05 m~60 m	0.05 m~40 m
Measuring Accuracy	±1.5mm Typical*		
Minimum Reading	1mm		
Laser Class	II		
Laser Type	635 nm, < 1 mW		
Auto Power-off	180 second		
Illumination	✓		
Continuous Measurement	✓		
Plane Area Measurement, Volume Measurement	✓		
Triangle Measurement	✓	-	-
Ladder type Measurement	✓	-	-
Pythagoras Measurement	✓		
Addition/Subtraction	✓		
Historical Storage	30	20	-
Obliquity measurement Range*	±45°	-	
Obliquity measurement Accuracy*	±0.3°	-	
Battery Life	(Type AAA, 4×1.5V) Up to 5000 Measurements	(Type AAA, 2×1.5V) Up to 5000 Measurements	
Dimension & Weight	130×55×30 mm, 150 g	118×50×30 mm, 120 g	
Temperature Range	-25°C ~ +70 °C(Storage)		-10 °C ~ +50 °C(Operation)



PD-58

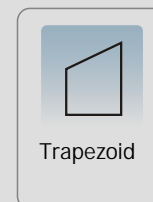
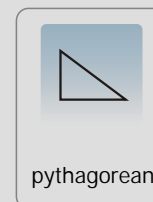
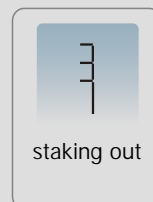
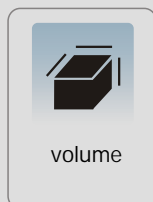


PD-56



PD-54

Applications



REFLECTOR PRISM SYSTEMS TPS SERIES

TPS11 Single Prism system



Prism Canister:
Yellow/Red
Adapter & Tribrach:
Yellow/Grey/Camel, Metal
Diameter: 64mm
Prism offset: 0mm

TPS12 Single Prism system



Prism Canister:
Yellow/Red
Adapter & Tribrach:
Grey/Yellow/Camel, Metal
Diameter: 64mm
Prism offset: 0mm

TPS16 Single Prism system



Prism Canister:
Black
Adapter&Tribrach:
Green Metal
Diameter 65mm
Prism offset:
-34.4mm/0mm(Leica)

TPS17 Single Prism system



Prism Canister:
Yellow/Red
Adapter & Tribrach:
Grey/Yellow/Camel, Metal
Diameter: 64mm
Prism offset:
-30mm(face)/0mm(back)

TPS18 Single Prism system



Prism Canister:
Yellow/Red
Adapter&Tribrach:
Camel/Grey/Yellow
Diameter :65mm
Prism offset:
-30mm(face)/0mm(back)

TPS19 Single Prism system



Prism Canister:
Yellow/Red
Adapter & Tribrach:
Grey/Yellow/Camel, Metal
Diameter: 64mm
Prism offset:
-30mm(face)/0mm(back)

TPS26 Single Prism system



Prism Canister:
Black
Adapter & Tribrach:
Green, Metal
Diameter: 65mm
Prism offset:
-34.4mm/0mm(Leica)

TPS27 Single Prism system



Prism Canister:
Yellow/Red
Adapter & Tribrach:
Camel/Grey/Yellow
Diameter:64mm
Prism offset:
-30mm(face)/0mm(back)

TPS28 Single Prism system



Prism Canister:
Yellow/Red
Adapter & Tribrach:
Camel/Grey/Yellow
Diameter:64mm
Prism offset:
-30mm(face)/0mm(back)

TPS30 Triple Prism system



Prism Canister:
Yellow/Red
Adapter & Tribrach:
Yellow/Grey/Camel, Metal
Diameter: 64mm
Prism offset:
-30mm(face)/0mm(back)

Note: All prism system above come with a standard plastic carrying case NX01 for single prism or triple prism(different foam)as default



TPS360
360° Prism
Offset: -10mm
For Robotic Total Station
Joint:Leica style or 5/8" "



TPSmini114A
Mini Prism
Diameter:25.4mm
Offset:-25.3mm



TPSmini107
360° Mini Prism
Offset:8.5mm

REFLECTOR PRISM SETS

TK10 SET



Prism Holder:Red/Yellow
Soft Bag:AB14

TK11SET



Holder:Yellow/Grey/Camel Optional
Prism Canister:Red/Yellow Optional
Soft Bag:AB12

TK12 SET



Holder:Yellow/Grey/Camel Optional
Prism Canister:Red/Yellow Optional
Soft Bag:AB14

TK16T



Prism Holder:Black
Soft Bag:AB10

TK17 SET



Prism Holder:Red/Yellow
Soft Bag:AB10

TK18 SET



Prism Holder:Yellow/Red
Soft Bag:AB09

TK19 SET



Prism Holder:Red
Soft Bag:AB09

TK21 SET



Prism Holder:Red
Soft Bag:AB09

TK25T



Prism Holder:Red
Soft Bag:AB09

TK27 SET



Prism Holder:Red
Soft Bag:AB14

TK28T



Prism Holder:Red/Yellow
Soft Bag:AB09

Note: All prism sets are supplied with prism in canister, prism cover, target and relevant soft bag (NB09/NB10/NB12/NB13/NB14). Without any prior notice, the illustration above shall be considered as default color and collocation for holder and prism canister of each prism set.

MINI PRISM SYSTEMS

TPSmini101 Prism System



TPSmini101
Diameter: 25.4mm
Offset: -30mm(face)/0mm(back)



TPSmini102 Prism System



TPSmini102
Mini Prism
Diameter: 25.4mm
Offset: -30mm(face)/0mm(back)



TPSmini103 Prism System



TPSmini103
Mini Prism
Diameter: 25.4mm
Offset: 0mm



Mini Pole : 3×60cm, Ø10mm



TPSmini104 Prism System



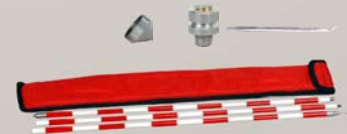
TPSmini104
Mini Prism
Diameter: 25.4mm
Offset: -30mm(face)/0mm(back)



TPSmini105A Prism System



TPSmini105A
Mini Prism
Diameter: 38mm
Offset: -30mm(face)/0mm(back)



Mini Pole : 3×60cm, Ø10mm



Model	Prism Size	Prism Constant	Coating	Prism Holder	Mini Pole
TPSmini101	φ 25.4mm	0/-30mm	Silver	Plastic	/
TPSmini102	φ 25.4mm	0/-30mm	Silver	Metal	/
TPSmini103	φ 25.4mm	0mm	Silver	Metal	Yes (60×3cm, φ 10mm)
TPSmini104	φ 25.4mm	0/-30mm	Silver	Metal	/
TPSmini105A	φ 38mm	0/-30mm	Silver	Metal	Yes (60×3cm, φ 10mm)

MINI PRISM SYSTEMS

TPSmini105B Prism System



TPSmini105B
Mini Prism
Diameter:25.4mm
Offset:-30mm(face)/0mm(back)



Mini Pole :60cm×3, Ø10mm



TPSmini112A Prism System



TPSmini112A
Mini Prism
Diameter:25.4mm
Offset:17.5mm



Mini Pole :30cm×4, Ø12mm



TPSmini112B Prism System



TPSmini112B
Mini Prism
Diameter:25.4mm
Offset:0/-30mm



Mini Pole :30cm×4, Ø12mm



TPSmini115 Prism System



TPSmini115
Mini Prism
Diameter:35mm
Offset:0mm



Mini Pole :30cm×5, Ø9mm

TPSmini116 Prism System



TPSmini116
Mini Prism
Diameter:38mm
Offset:0mm

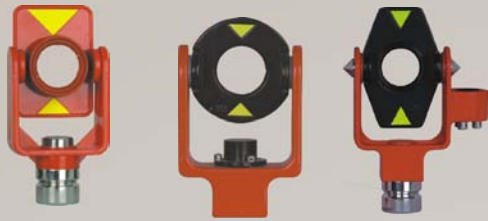


Mini Pole :55cm×3, Ø9mm

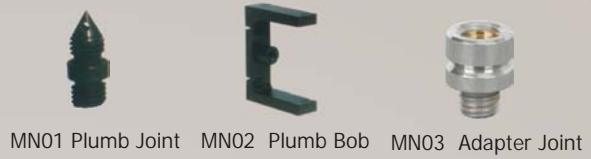
Model	Prism Size	Prism Constant	Coating	Prism Holder	Mini Pole
TPSmini105B	φ 25.4mm	0/-30mm	Silver	Metal	Yes (60cm×3, φ 10mm)
TPSmini112A	φ 25.4mm	17.5mm	Copper	Plastic	Yes (30cm×4, φ 10mm)
TPSmini112B	φ 25.4mm	0/-30mm	Copper	Plastic	Yes (30cm×4, φ 10mm)
TPSmini115	φ 35mm	0mm	Silver	Metal	Yes (30cm×5, φ 9mm)
TPSmini116	φ 38mm	0mm	Silver	Metal	Yes (55cm×3, φ 10mm)

Note: Refer to the illustration for the standard configuration of each mini prism system. Please specify if you need any additional accessories (extra cost) like plumb point, adapter joint, etc.

MINI PRISM ACCESSORIES



TK mini101 (-30mm/0mm) TK mini102 (-30mm/0mm) TK mini104 (-30mm/0mm)



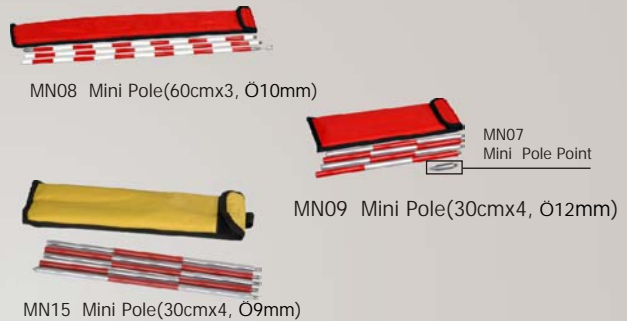
MN01 Plumb Joint MN02 Plumb Bob MN03 Adapter Joint



MN04 Corner Point MN05 Cone Stick MN06 Tripod Bracket



TK mini103 (0mm) TK mini115 (0mm) TK mini116 (0mm)

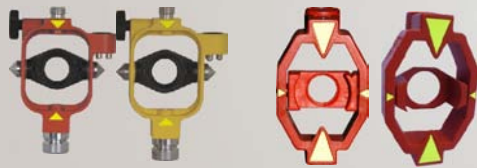


MN08 Mini Pole(60cmx3, Ø10mm)

MN07 Mini Pole Point

MN09 Mini Pole(30cmx4, Ø12mm)

MN15 Mini Pole(30cmx4, Ø9mm)



TK mini105(A/B) (-30mm/0mm)

TK mini112A/B
mini112A: 17.5mm
mini112B: -30/0mm



MN16 Mini Pole(55cmx3, Ø9mm)

All Kinds of Prism



CPR1L CPR1 TY 01 TY 02 TY 03 TY 04 TY mini25 TY mini38

The re-process of prisms includes coating, sealing, etc, which may satisfy diverse needs of users.

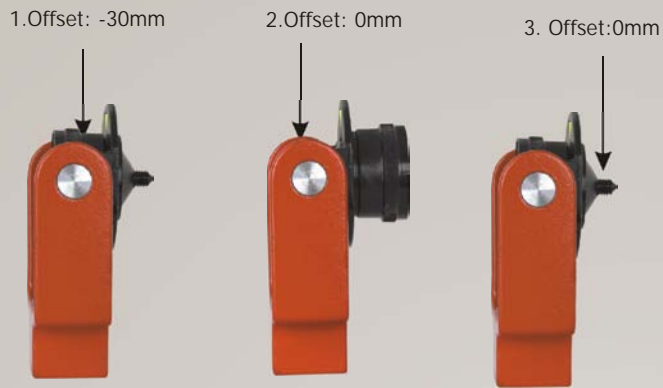
CPR1L: Light
TY03: Sealed Washer
TY04: Metal Holding

Diameter

Leica-style CPR1	Leica-style CPR1L	TY01	TY02	TY03	TY04	TY mini25	TY mini38
65mm	65mm	64mm	64mm	64mm	64mm	25.4mm	38mm

APPLICATION INSTRUCTION

Mounting on Tiltable Holder

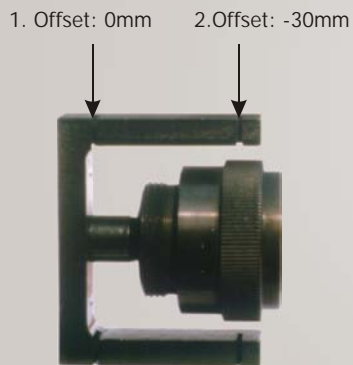


Hung in Air

Poth Hook

Mini Prism pole

Mounting on Plumb Bob



Corner Surveying

1. Setting outer corner
Offset: 0mm

2. Setting inner corner
Offset: 0mm



TARGETS, ADAPTERS AND TRIBRACHS

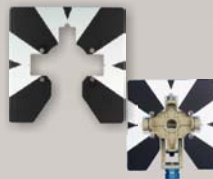
TZ 10 TZ 11 TZ 12 TZ 16 TZ 17 TZ 21



Suspended-type
Single Prism Target



Crotch-type
Single Prism Target



Crotch-type
Single Prism Target



Leica-style
Single Prism Target



Suspended-type
Single Prism Target



Suspended-type
Single Prism Target

TL 10 TL 10L TL 13 TL 14 TL 15 TL 16



(Grey/Camel/Yellow/Green)
Three-jaw adapter
with optical plummet



Green
with optical plummet



(Grey/Camel/Yellow)
Three-jaw adapter
without optical plummet



Fixed-type
GPS Adapter



Rotatable
GPS Adapter



(Grey/Camel/Yellow)
Three-jaw adapter
with laser plummet

CRT 10 CRT 11 TL23LG TL23L TL 23



(Green)
Leica-type adapter



(Green)
Leica-type adapter



Black/Yellow



Black/Yellow



Black/Yellow

TJ 09 TJ 10 TJ 13 TJ 13L TJ 16 TJ 19



Yellow



(Grey/Camel/Yellow/Black)
Three-jaw tribrach
with optical plummet



(Grey/Camel/Yellow/Black)
Three-jaw tribrach
without optical plummet



Green



(Grey/Camel/Yellow/Black)
Three-jaw tribrach
with laser plummet



Tribrach optical
plummet alignment

PRISM HOLDERS

TK 10 TK 11 TK 12 TK17 TK 19 TK 25



Tiltable
Single Prism Holder
Offset: -30mm/0mm
(Yellow/Red)



Crotch-type
Single Prism Holder
Offset: 0mm
(Yellow/Grey/Camel)



Crotch-type
Single Prism Holder
Offset: 0mm
(Yellow/Grey/Camel)



Tiltable
Single Prism Holder
Offset: -30mm/0mm
(Yellow/Red)



Tiltable
Single Prism Holder
Offset: -30mm/0mm



Single Prism Holder
Colors: Red
Offset: -30mm/0mm

TK 27 TK 28 CPH1 TK 30 TG 01



Single Prism Holder
Colors: Red
Offset: -30mm/-40mm



Single Prism Holder
Colors: Yellow
Offset: -30mm/0mm



Leica-style
Single Prism Holder
Offset: 0mm



Tiltable
Triple Prism Holder
offset: -30mm/0mm
(Yellow/Red)



For TPS360,
TPS30

Carrying Cases

- NX01-SP Used for Single Prism system
- NX01-TP Used for Triple Prism system
- NX01-ET Used for Electronic Theodolite

NX02 Used for Total Station



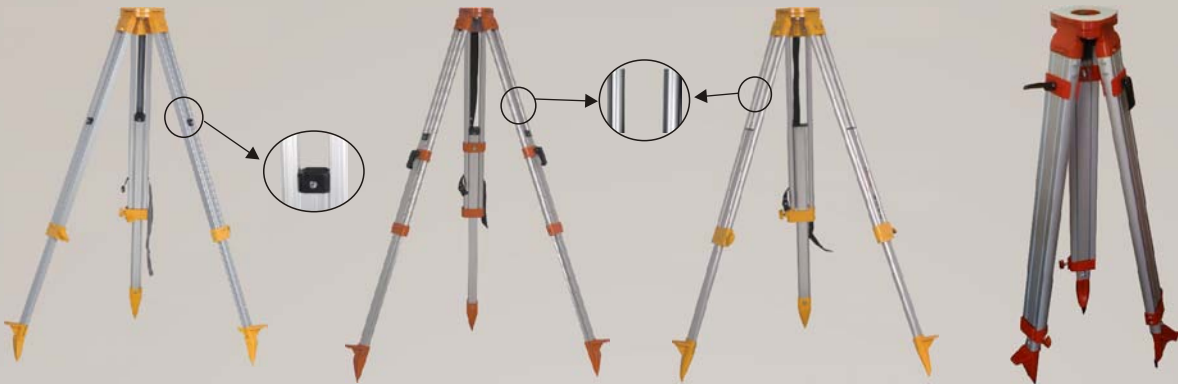
Soft Bags



AB02/AB03/AB04/AB08/AB09/AB10/AB12/AB13/AB14

P/N	Size(mm)	Application
AB02	85×60×130	ADSmini 101/102/112A/112B/116
AB03	95×60×140	ADSmini 104
AB04	110×60×140	ADSmini 105A/105B
AB08	90×50×130	ADSmini 103/115
AB09	170×90×180	AK18T/AK19T/AK28T
AB10	200×90×190	AK16T/AK17T
AB12	160×150×140	AK11T
AB13	160×120×160	AK12T
AB14	200×110×200	AK10T

TRIPODS



ATS-1 Aluminum Tripod

ATS-3 Aluminum Tripod

ATS-5 Aluminum Tripod

NAT81



ATS-2 Wooden Tripod

ATS-4 Wooden Tripod

ATS-4B Fiberglass Tripod

ATS-6 Wooden Tripod



ATS-7 Wooden Tripod

ATS-FP2 Fiberglass Tripod

ATS-JR3 Aluminum Tripod

ATS-S10 Aluminum Tripod

TRIPODS

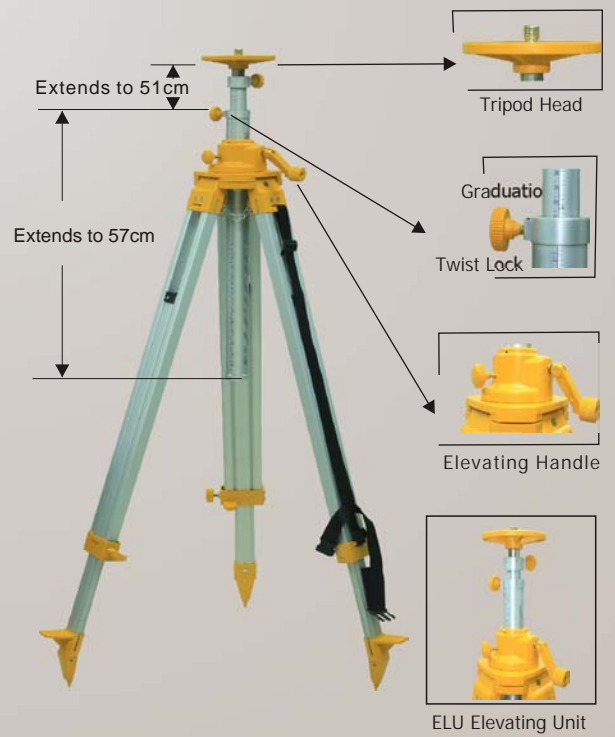
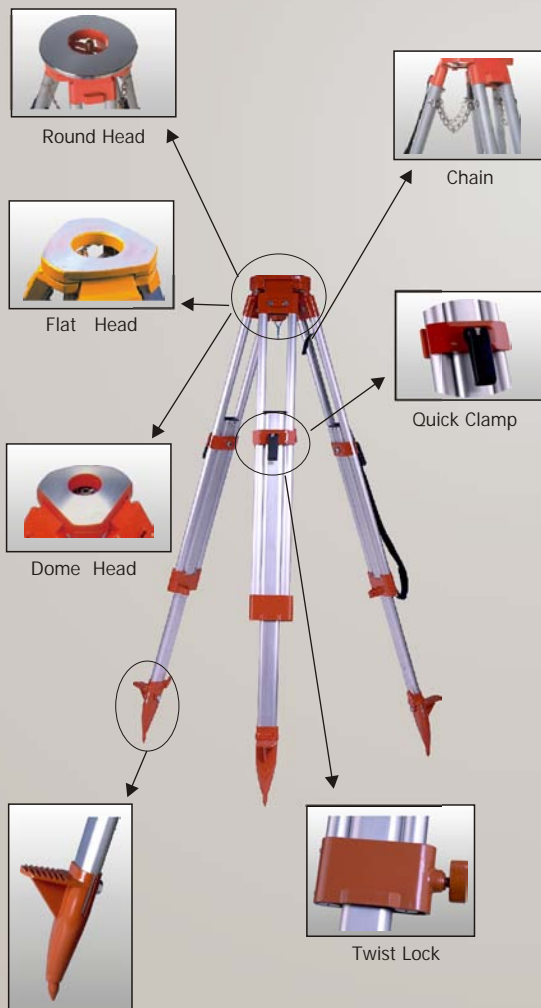


ATS-MP2 Wooden Tripod

ATS-L Wooden Tripod

ATS-T Wooden Tripod

ATS-S Wooden Tripod



PRISM POLES & BIPODS

Technical Data

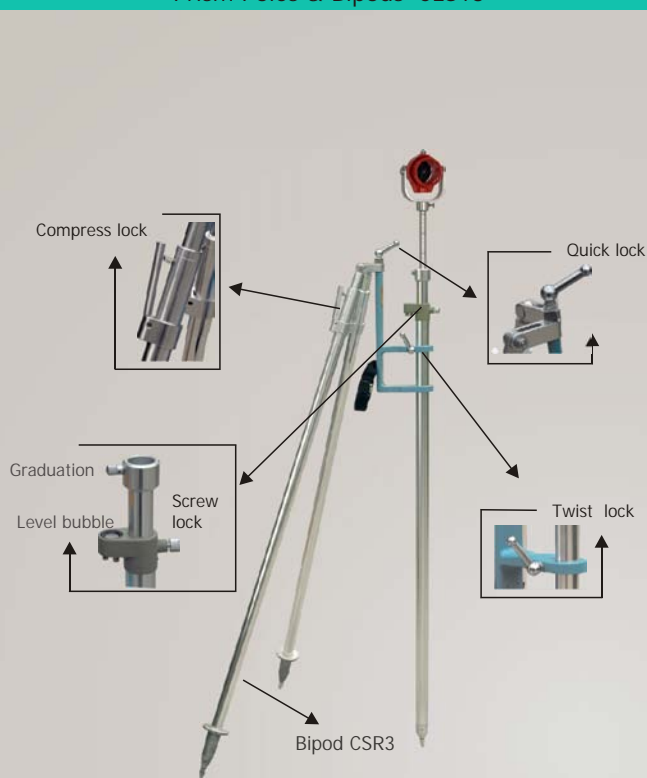
Model	Full Length	Min Length	Lock Type	Head Type	Head Outer	Head Inner	Leg Type	Net Weight	Color	Packing
ATS-1	1650mm	970mm	Twist Lock/ Quick Clamp	Dome /Flat	158mm	66mm	Quadrate	3.5kg	Orange /Yellow	4PCS/CTN
ATS-1H	1800mm	1045mm			158mm	66mm	Quadrate	4.0kg		
ATS-3	1700mm	1000mm			158mm	66mm	Round	3.5kg		
ATS-5	1650mm	970mm			120mm	45mm	Round	3.0kg		
NAT81	1750mm	1020mm			158mm	66mm	Quadrate	4.5kg		
ATS-2	1700mm	1000mm			158mm	66mm	Round	6.2kg	Orange	
ATS-4	1650mm	1000mm			158mm	66mm	Round	4.3kg		
ATS-6	1550mm	950mm			120mm	45mm	Round	3.6kg		
ATS-7	1700mm	1070mm			158mm	55mm	Round	7.0kg	Yellow	
ATS-FP2	1850mm	1150mm			Twist Lock/ Quick Clamp/ Chain	Dome /Flat /Round	160mm	67.5mm	Round	
ATS-JR3	1650mm	1030mm	167mm	68.5mm			Round	4.7kg		
ATS-S10	1850mm	1100mm	160mm	60mm			Round	6.9kg		
ATS-MP2	1760mm	1090mm	160mm	67.5mm			Round	7.5kg		
ATS-L	1760mm	1100mm	160mm	60mm			Round	7.5kg		
ATS-T	1760mm	1100mm	160mm	60mm			Round	8.5kg		
ATS-S	1760mm	1100mm	160mm	60mm			Round	8.5kg		
EATS	2850mm	1250mm	Quick Clamp	Round	125mm	/	Quadrate	5.2kg	Yellow /Black	2PCS/CTN

Note: All models above are available for 5/8" x11 or M16 center screws. (Certain Models)



PRISM POLES & BIPODS

Prism Poles & Bipods CLS13



Steel Clip for ADS115
Aluminum Clip for ADS116



Mini Tripod ADS115/116



CLS12/CLS13/CSR2/CSR3/GSR23 Bag



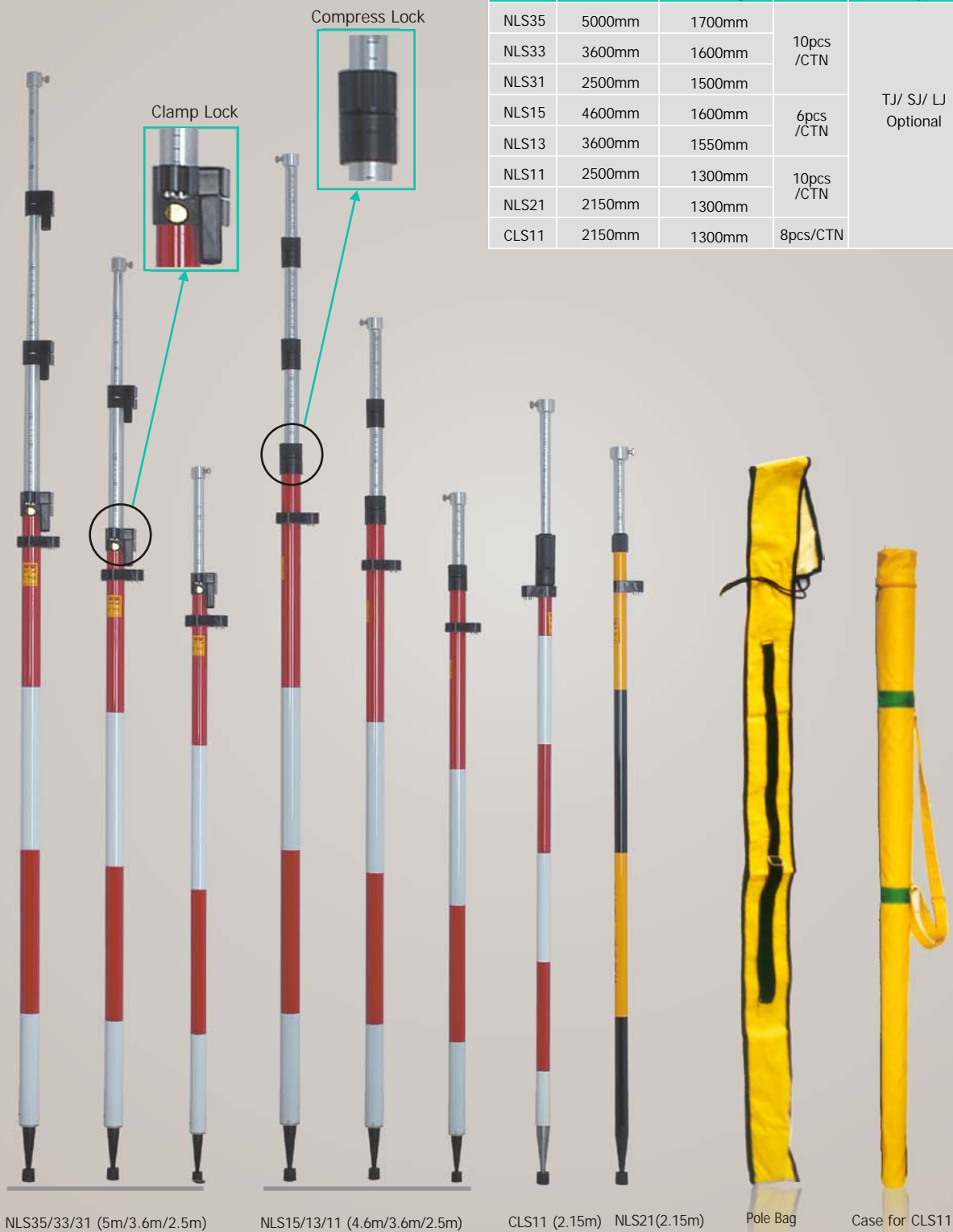
Item	Model	Full Length	Min Length	Joint Type	Tripod /Bipod	Weight
Bipod	CSR2	/	/	/	Bipod	2.0kg
Bipod	CSR3	/	/	/	Bipod	3.0kg
Prism Pole + Bipod	CLS12 (CLS11+CSR2)	2150mm	1300mm	TJ/SJ/LJ	Tripod	3.0kg
	CLS13 (NLS13+CSR2)	2150mm	1300mm	Optional	Tripod	4.1kg
Tripod	GSR23	/	1300mm	/	Tripod	2.6kg
Mini Tripod	ADS115/116	1260mm	780mm	/	Tripod	1.0kg

Graduation: 10mm

PRISM POLES

Prism Poles

Item	Full Length	Min. Length	Packing	Joint Type
NLS35	5000mm	1700mm	10pcs /CTN	TJ/ SJ/ LJ Optional
NLS33	3600mm	1600mm		
NLS31	2500mm	1500mm		
NLS15	4600mm	1600mm	6pcs /CTN	
NLS13	3600mm	1550mm	10pcs /CTN	
NLS11	2500mm	1300mm		
NLS21	2150mm	1300mm	10pcs /CTN	
CLS11	2150mm	1300mm	8pcs/CTN	



NLS35/33/31 (5m/3.6m/2.5m)

NLS15/13/11 (4.6m/3.6m/2.5m)

CLS11 (2.15m) NLS21(2.15m)

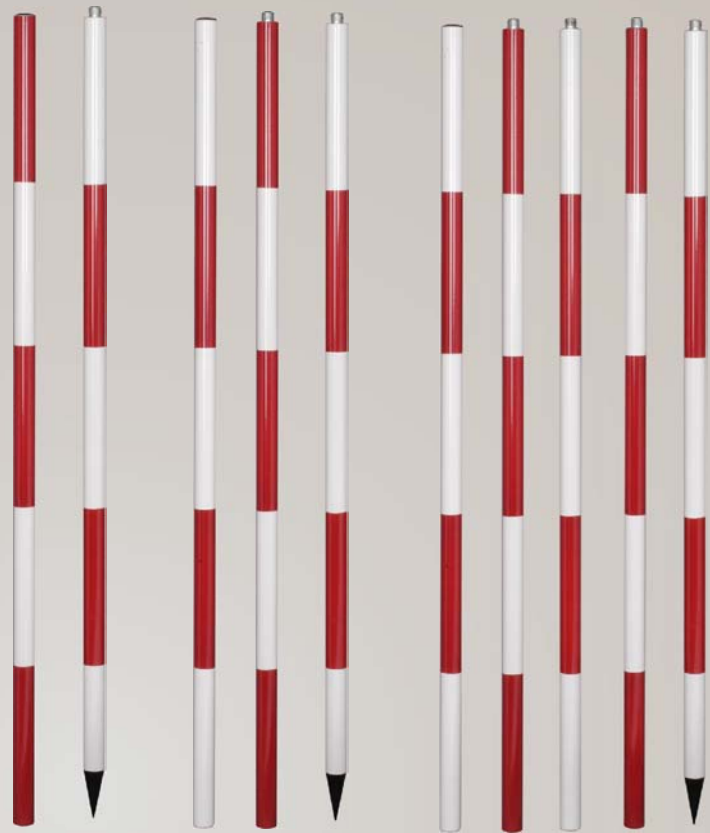
Pole Bag

Case for CLS11

RANGE POLES



ESP5(5m)/ ESP3(3m)/ ESP2(2m)



TSP2(2m)

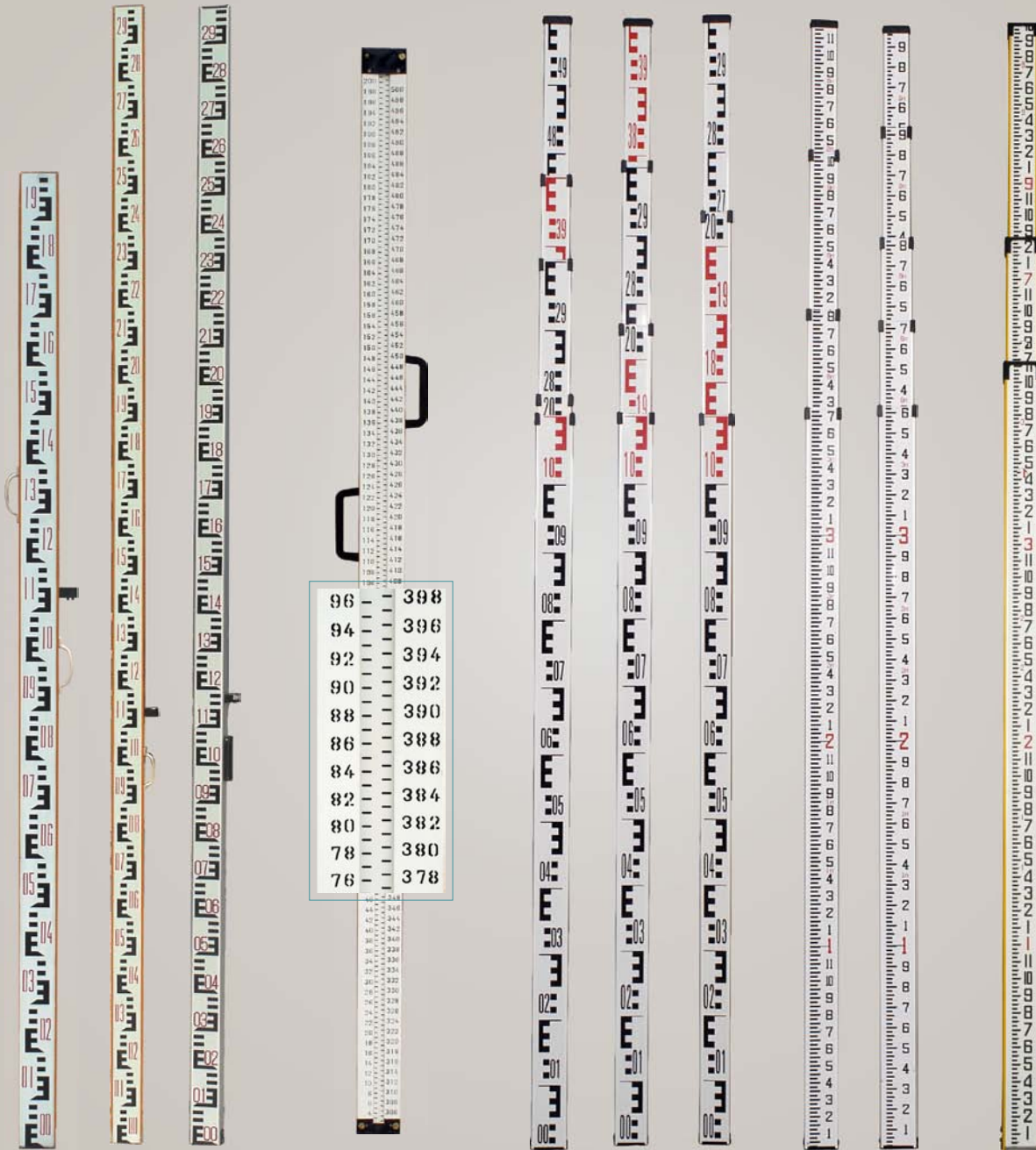
TSP3(3m)

TSP5(5m)

Range Poles

Item	Model	Each Stripe (Red/White)	Deviation of Each Meter	Overall Length Deviation	At a Distance	Packing Details
Threading Range Pole	TSP2	20cm	± 1mm	± 2mm	± 2mm	20 PCS/CTN
	TSP3	20cm	± 1mm	± 3mm	± 3mm	20 PCS/CTN
	TSP5	20cm	± 1mm	± 3mm	± 4mm	10 PCS/CTN
Extruded Range Pole	ESP2	20cm	± 1mm	± 2mm	± 2mm	20 PCS/CTN
	ESP3	20cm	± 1mm	± 3mm	± 3mm	20 PCS/CTN
	ESP5	20cm	± 1mm	± 3mm	± 4mm	20 PCS/CTN

STAFFS



Leveling Staff
WLR2/3;ALR2/3

Invar Staff
WIR2/3;AIR2/3

Aluminum Telescopic Staff AGR3/4/5

Fiberglass Telescopic Staff FGR3

STAFFS

Graduation of Aluminum Telescopic Staff



Type 01
Obverse: 5mm
Rear: 10+1mm



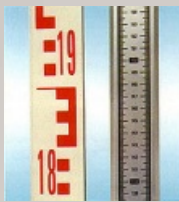
Type 02
Obverse: 5mm
Rear: 10mm (erect)



Type 03
Obverse: 5mm
Rear: 10mm (headstand)



Type 04
Obverse: 10mm
Rear: 5mm



Type 05 (Default Type)
Obverse: 10mm
Rear: 1mm



Type 06
Obverse: 10mm
Rear: 1mm (headstand)



Type 07
Obverse: 1mm
Rear: Imperial 1/8 foot



Type 08
Obverse: 1/10 foot
Rear: Imperial 1/12 foot

Specification

Item	Model	Specification	N.W. per pc	Packing Details
Wooden Levelling Staff	WLR2	2030x195x90mm	3.0kg	3 Pairs (6 PCS) /CTN
	WLR3	3030x195x90mm	3.75kg	
Aluminum Levelling Staff	ALR2	2000x70x35mm	1.5kg	2 Pairs (4 PCS) /CTN
	ALR3	3000x70x35mm	2.5kg	
Wooden Invar Staff	WIR2	2240x180x15mm	10kg	1 Pair (2 PCS) /CTN
	WIR3	3240x180x15mm	14kg	
Aluminum Invar Staff	AIR2	2140x200x15mm	9.5kg	
Invar Staff	AIR3	3140x200x15mm	13.5kg	



NV02 (Insert Type, for Staff)

Note: All staffs above , equipped with bubble

Specification

Model	Length	Sections	Overall Length Deviation	Deviation of Each Meter	Packing Details
AGR3 (3)	3m	3	±2mm	±0.5mm	10 PCS /CTN
AGR4 (4)	4m	4	±2mm	±0.5mm	
AGR5 (4)	5m	4	±2mm	±0.5mm	
AGR5 (5)	5m	5	±2mm	±0.5mm	
FGR3(3)	3m	3	±1mm	±3mm	



NV03 (Clamp Type, for Pole)

Note: Thickness in material may directly result in pricing.
Aluminum Telescopic Staff: 1mm thuck in material