

*A Full Line of Supplies*

11



## SURVEY ACCESSORIES

### Prism System

- 11.1 Prism System
- 11.3 Prism Set
- 11.5 Mini Prism System
- 11.7 Prism
- 11.8 Tribrach
- 11.9 Adapter

### Pole

- 11.10 Prism Pole
- 11.12 Range Pole
- 11.13 **Staff**
- 11.14 **Tripod**
- 11.17 **Bipod & Tripod for Poles**



## TPS11



- A 64mm prism TY01 assembly with yellow ABS canister
- This kit comes with a fixed adapter TL10 with optical plummet and plate vial
- Also included a yellow tribrach TJ13, which features three-screw leveling with center line and a 10' bubble
- Included hard shell case AX05

PN	Diameter	Offset	Adapter	Target	Wt.	Case
AD0001	64mm	0/-30mm	5/8	140*140mm	1.85kg	Yellow

## TPS16



- A 65mm prism CPR1 with copper coated
- This kit comes with a fixed adapter CRT-10
- Also included is a green tribrach TJ10, which features three-screw leveling with optical plummet and a 10' bubble
- Included hard shell case AX02

PN	Diameter	Offset	Adapter	Target	Wt.	Case
AD0011	65mm	-34.4mm	stub fitting	180*168mm	1.65kg	Red

## TPS17



- A 64mm prism TY01 assembly with red ABS canister
- This kit comes with a fixed adapter TL10 with optical plummet and plate vial
- Also included is a gray tribrach TJ13, which features three-screw leveling with a 10' bubble
- Included hard shell case AX05

PN	Diameter	Offset	Adapter	Target	Wt.	Case
AD0004	64mm	0/-30mm	5/8	200*160mm	1.8kg	Yellow

## TPS21



- A 64mm prism TY02 assembly with red ABS canister and black pressing-ring
- This kit comes with a fixed adapter TL10 with optical plummet
- Also included is a gray tribrach TJ13, which features three-screw leveling with center line and a 10' bubble
- Included hard shell case

PN	Diameter	Offset	Adapter	Target	Wt.	Case
AD0007	64mm	0/-30mm	5/8	180*140mm	1.8kg	Yellow

## TPS26



- A 65mm prism CPR1 assembly with cooper coated and metal canister
- This kit comes with a fixed adapter TL10L with optical plummet and plate vial
- Also included is a green tribrach TJ10, which features three-screw leveling with a 10' bubble
- Included hard shell case AX02
- Erect image

PN	Diameter	Offset	Adapter	Target	Wt.	Case
AD0003	65mm	-34.4mm	stub fitting	180*168mm	1.8kg	Red

## TPS27



- A 64mm prism TY06 assembly with red ABS canister
- This kit comes with a fixed adapter TL10 with optical plummet
- Also included is a gray tribrach TJ13, which features three-screw leveling with center line and a 10' bubble
- Included hard shell case AX02

PN	Diameter	Offset	Adapter	Target	Wt.	Case
AD0008	64mm	-30/-40mm	5/8	200*185mm	1.8kg	Red

## TPS30



- Includes three sealed 64mm prisms TY01 in red ABS canister
- Tilting holder is constructed by aluminum-alloy and holds one to three prisms, compatible with most screw-in prisms
- Fixed adapter and tribrach features 10' sensitivity for compensation, with optical plummet
- Included hard shell case AX05

PN	Diameter	Offset	Adapter	Target	Wt.	Case
AD0012	64mm	0/-30mm	5/8	None	1.95kg	Yellow

## TPS49



- A 64mm prism TY01 assembly with red ABS canister
- This kit comes with a fixed adapter TL10 with optical plummet and plate vial
- Also included is a gray tribrach TJ13, which features three-screw leveling with a 10' bubble
- Included hard shell case AX05

PN	Diameter	Offset	Adapter	Target	Wt.	Case
AD0010	64mm	0/-30mm	5/8	175*140mm	1.8kg	Yellow

## TK10T



- Features a 30mm offset and a 64mm prism TY01, with accuracy of <5 seconds, sealed in red canister made by durable ABS
- Mounting base features standard female 5/8 thread with Zinc-aluminum + ABS holder Tk10
- Included carry bag AB14

PN	Diameter	Offset	Holder	Target	Wt.	Center Ht
HG0004	64mm	0/-30mm	Zinc-aluminum+ABS	200*170mm	0.51kg	77mm

## TK11T



- Features a -30mm offset and a 64mm prism TY01, with accuracy of <5 seconds, sealed in yellow canister made by durable ABS
- Mounting base features standard female 5/8 thread with Zinc-aluminum holder TK11
- Included carry bag AB09

PN	Diameter	Offset	Holder	Target	Wt.	Center Ht
HG0005	64mm	0/-30mm	Zinc-aluminum	140*140mm	0.68kg	77mm

## TK16T



- Features a -34.4mm offset and a 65mm copper-coated prism CPH1
- Tilt holder is constructed by polycarbonate with an easy-locked thread
- Included carry bag AB09

PN	Diameter	Offset	Holder	Target	Wt.	Center Ht
HG0007	65mm	-34.4mm	ABS	180*168mm	0.53kg	87mm

## TK17T



- Features 0mm/-30mm offset and a 64mm prism TY01, with accuracy of <5 seconds, sealed in red canister made by durable ABS
- Mounting base features standard female 5/8 thread with Zinc-aluminum+ABS holder
- Included carry bag AB09

PN	Diameter	Offset	Holder	Target	Wt.	Center Ht
HG0008	64mm	0/-30mm	Zinc-aluminum+ABS	200*160mm	0.68kg	77mm

## TK21T



- Features 0/30mm offset and a 64mm prism TY02, with accuracy of <5 seconds, light but durable ABS canister with a black pressing ring to prevent water and dust from getting inside
- Mounting base features standard female 5/8 thread with Zinc-aluminum holder
- Included carry bag AB09

PN	Diameter	Offset	Holder	Target	Wt.	Center Ht
HG0011	64mm	0/-30mm	Zinc-aluminum	180*140mm	0.67kg	77mm

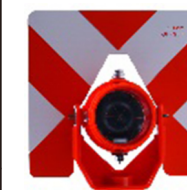
## TK25T



- Features 0/-30mm offset and a 64mm prism TY01, with accuracy of <5 seconds, sealed in red canister made by durable ABS
- Mounting base features standard female 5/8 thread with Zinc-aluminum holder
- Included carry bag AB09

PN	Diameter	Offset	Holder	Target	Wt.	Center Ht
HG0017	64mm	0/-30mm	Zinc-aluminum	175*140mm	0.64kg	77mm

## TK27T



- Features -30/-40mm offset and a 64mm prism TY06, sealed in red canister made by ABS
- Mounting base features standard female 5/8 thread with ABS holder
- Included carry bag AB20

PN	Diameter	Offset	Holder	Target	Wt.	Center Ht
HG0012	64mm	-30/-40mm	ABS	200*185mm	0.63kg	85mm

## TK49T



- Features 0/-30mm offset and a 64mm prism TY01, with accuracy of <5 seconds, sealed in red canister made by durable ABS
- Mounting base features standard female 5/8 thread with Zinc-aluminum holder
- Included carry bag AB09

PN	Diameter	Offset	Holder	Target	Wt.	Center Ht
HG0014	64mm	0/-30mm	Zinc-aluminum+ABS	175*140mm	0.63kg	77mm

## TPSmini101



- 25.4mm prism encased in ABS holder, 0/-30mm offset
- Mounting base features standard 5/8 thread
- An adjustable 30' circle vial
- Included soft bag AB02, connector AD013 and S hook
- Optional: U bracket

## TPSmini102



- 25.4mm prism encased in aluminum-alloy holder, 0/-30mm offset
- Mounting base features standard 5/8 thread
- An adjustable 30' circle vial
- Included soft bag AB02, connector AD013/AD014 and S hook

## TPSmini103



- 25.4mm silver-coated prism encased in aluminum-alloy holder, 0mm offset
- An adjustable 60' circle vial
- Included soft bag AB08, cap, poles ADS103 and S hook

► 60cm\*3, φ10mm

## TPSmini104



- 25.4mm silver-coated prism encased in aluminum-alloy holder, 0/-30mm offset
- Mounting base features standard female 5/8 thread
- An adjustable 30' circle vial
- Included soft bag AB03, connector AD013/AD014 and S hook
- Optional: U bracket

## TPSmini105A/105B



- 38mm/25.4mm silver-coated prism encased in aluminum-alloy holder, 0/-30mm offset
- Mounting base features standard female 5/8 thread, An adjustable 30' circle vial
- Included soft bag AB04, connector AD014, cap and poles ADS112

► 30cm\*4, φ12mm

## TPSmini112A/112B



- 25.4mm, copper-coated prism and light & durable ABS holder
- Prism constant: -17.5 for TPSmini112A, 0/-30 for TPSmini112B
- Assembly slides up & down the poles
- An adjustable 15' circle vial
- Included soft bag AB02 and poles ADS112

► 30cm\*4, φ12mm

## TPSmini114A/114B



- 25.4mm copper coating prism mounted in metal holder, making the waterproof and dust-proof protection
- 3 inches L-bar for 114A  
9 inches L-bar for 114B
- Tilting screw uses an 8mm hex wrench to loosen and tighten

## TPSmini114D



- 25.4mm copper coating prism mounted in metal holder, making the waterproof and dust-proof protection
- Features 3 inches L-bar
- Tilting screw uses an 8mm hex wrench to loosen and tighten

Part No.	Type	Diameter	Offset	Center Height	Wt
MN0004	TPSmini101	25.4mm	0/-30mm	50mm	0.08kg
MN0006	TPSmini102	25.4mm	0/-30mm	70mm	0.16kg
MN0008	TPSmini103	25.4mm	0mm	None	0.15kg
MN0010	TPSmini104	25.4mm	0/-30mm	70mm	0.16kg
MN0011	TPSmini105A	38mm	0/-30mm	60mm	0.29kg
MN0027	TPSmini105B	25.4mm	0/-30mm	60mm	0.25kg
MN0015	TPSmini112A	25.4mm	-17.5mm	50mm	0.11kg
MN0017	TPSmini112B	25.4mm	0/-30mm	50mm	0.11kg
MN0019/MN0021	TPSmini114A/114B	25.4mm	-25.3mm	60mm/214.6mm	0.20kg
MN0020	TPSmini114D	25.4mm	-25.3/-6.5mm	60mm	0.27kg

## TPSmini115



- 35mm silver coated sliding prism, 0 offset
- Prism assembly slides up and down the poles easily by stainless screw
- An Adjustable 30' circular vial
- Included soft bag AB08 and poles ADS115

► 30cm\*5, φ9mm

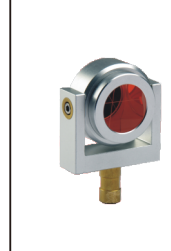
## TPSmini116



- 38mm silver coated standing prism, 0 offset, it can be disassemble and using as a sliding prism
- Holder is constructed by aluminum alloy
- An Adjustable 30' circular vial
- Included soft bag AB03, poles ADS116 and stand

► 55cm\*3, φ9mm

## TPSmini118



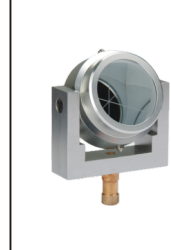
- 25.4mm silver-coated prism encased in aluminum-alloy holder, 0/-30mm offset
- MIO Thread
- An adjustable 30' circle vial

## TPSmini120/120C



- Large diameter monitoring prism ball for long-range measurement.
- Mini120 features 25.4mm silver-coated prism
- Mini120C features 45mm copper-coated prism, encased in a heavy-duty canister with a rain/snow cover

## TPSmini122



- 39mm silver-coated prism encased in a heavy-duty canister, -17.5mm offset
- Mounting base features M6 thread
- Accuracy achieved >0.1mm
- Coincide accuracy between optical center and structure center <0.3mm

## TPSmini128



- 25.4mm silver-coated prism ball encased in a heavy-duty canister, -17.5mm offset
- Magnetic prism with Φ12mm connector
- Effective magnetism: 35kg
- Accuracy achieved ±0.3mm

## TPS107



- 360° silver-coated prism makes the reflector to be positioned quickly on land survey. It allows for various measurement in different height
- Prism offset 9.4mm, diameter: 16mm
- Replaceable aluminum alloy top cover and stainless steel point
- It can be assembly slides on 9mm poles









## TPS360







- 360° copper-coated prism suitable for robotic total station, performed with a pin pole
- Features trigonal prism with the diameter: 48\*19.6mm, -10mm offset
- Light but durable aluminum alloy holder with improved locking thumb screw

Part No.	Type	Diameter	Offset	Center Height	Wt
MN0022	TPSmini115	35mm	0mm	None (with poles)	0.10kg
MN0024	TPSmini116	38mm	0mm	None (with poles)	0.26kg
MN0001	TPSmini118	25.4mm	-17.5mm	30mm	0.1kg
MN0028	TPSmini120	25.4mm	-17mm	25mm	0.13kg
MN0029	TPSmini120C	45mm	-17mm	22.5mm	0.18kg
MN0030	TPSmini122	39mm	-17.5mm	40mm	0.23kg
MN0002	TPSmini128	25.4mm	-17.5mm	None	0.40kg
MN0013	TPS107	16mm	9.4mm	None (with poles)	0.23kg
JT0016	TPS360	48*19.6mm	-10mm	83.5mm/97mm	0.28kg




<b>TY01</b>  <ul style="list-style-type: none"> <li>• 64mm prism with ABS canister</li> <li>• Features &lt;5" accuracy</li> <li>• Optional in red and yellow</li> <li>• Compatible with TK10T, TK17T, TK25T, TK49T, etc.</li> </ul>	<b>TY02</b>  <ul style="list-style-type: none"> <li>• 64mm prism with ABS canister, black pressing ring</li> <li>• Features &lt;5" accuracy</li> <li>• Optional in red and yellow</li> <li>• Compatible with TK21T, etc.</li> </ul>
<b>TY03</b>  <ul style="list-style-type: none"> <li>• 64mm prism with sealed canister, black pressing ring</li> <li>• Features &lt;5" accuracy</li> <li>• Optional in red and yellow</li> <li>• Compatible with TK20T, etc.</li> </ul>	<b>TY06</b>  <ul style="list-style-type: none"> <li>• 64mm prism with ABS canister</li> <li>• Features &lt;5" accuracy</li> <li>• Red color</li> <li>• Compatible with TK27T, etc.</li> </ul>
<b>CPR1</b>  <ul style="list-style-type: none"> <li>• 65mm copper-coated prism with polycarbonate canister</li> <li>• Compatible with TK16T</li> </ul>	<b>TYmini25</b>  <ul style="list-style-type: none"> <li>• 25mm mini prism in metal canister</li> <li>• Non-coated, copper-coated or silver coated</li> <li>• Compatible with TPSmini101/102/103/104 /105B/112A/112B, etc.</li> </ul>
<b>TYmini35</b>  <ul style="list-style-type: none"> <li>• 35mm mini prism in metal canister</li> <li>• Non-coated, copper-coated or silver coated</li> <li>• Compatible with TPSmini115, etc.</li> </ul>	<b>TYmini38</b>  <ul style="list-style-type: none"> <li>• 38mm mini prism in metal canister</li> <li>• Non-coated, copper-coated or silver coated</li> <li>• Compatible with TPSmini105A/116, etc.</li> </ul>

Part No.	Type	Diameter	Coating	Canister	Standard
JT0006	TY01-RED	64mm	None	ABS Plastic	TPS17, TPS30, TPS49
JT0019	TY01-YOW				TPS11
JT0007	TY02-RED				TPS21
JT0017	TY02-YOW	64mm	None	ABS Plastic	-
JT0008	TY03-RED				TPS20
JT0018	TY03-YOW				-
JT0010	TY06	64mm	None	ABS Plastic	TPS27
JT0013	CPR1	65mm	Copper-coated	ABS Plastic	TPS16
JT0019	TYmini25-0	25.4mm	None	ABS Plastic	TPSmini101
JT0020	TYmini25-1		None	Metal	TPSmini102, TPSmini103,
JT0021	TYmini25-2		Copper-coated	Metal	TPSmini104, TPSmini105B,
JT0001	TYmini25-3	35mm	Silver-coated	Metal	TPSmini115
JT0002	TYmini35-1		None	Metal	
JT0022	TYmini35-2		Copper-coated	Metal	
JT0023	TYmini35-3	38mm	Silver-coated	Metal	TPSmini105A, TPSmini116
JT0024	TYmini38-1		None	Metal	
JT0003	TYmini38-2		Copper-coated	Metal	
JT0005	TYmini38-3		Silver-coated	Metal	

<b>TJ10</b> <ul style="list-style-type: none"> <li>• The tribrach and optical plummet are robust construction and suitable for long period exposure on the field</li> <li>• Available in yellow, gray, camel, green and black</li> <li>• Circular vial: 10'</li> <li>• Weight: 0.84kg</li> </ul>		<b>TJ13</b> <ul style="list-style-type: none"> <li>• A cost effective tribrach suitable for use.</li> <li>• Copper footscrews</li> <li>• Features locking forced-centering knob and a 10' circular vial</li> <li>• Available in yellow, gray, camel, green and black</li> <li>• Weight: 0.67kg</li> </ul>	
<b>TJ13L</b> <ul style="list-style-type: none"> <li>• A cost effective tribrach, suitable for the adapters with laser plummet</li> <li>• Features a 10' circular vial</li> <li>• Green color</li> <li>• Weight: 0.67kg</li> </ul>		<b>TJ16</b> <ul style="list-style-type: none"> <li>• High-precision tribrach with laser plummet, suitable for robust construction</li> <li>• Bright 650nm focused laser dot.</li> <li>• Circular vial: 10'</li> <li>• Weight: 0.80kg</li> </ul>	
<b>TJ19</b> <ul style="list-style-type: none"> <li>• Tribrach for optical plummet adjustment</li> <li>• Weight: 1.52kg</li> </ul>		<b>TJ23</b> <ul style="list-style-type: none"> <li>• Features locking forced-centering knob and a 10' circular vial.</li> <li>• Weight: 0.70kg</li> </ul>	


Part No.	Type	Color	Diameter	Leveling Screw	Bubble	Weight
JZ0006	TJ10-YOW	Yellow	Foot ϕ 13mm Clutch-system ϕ 80mm	Copper Screw	10'	0.84kg
JZ0004	TJ10-GRY	Gray				
JZ0015	TJ10-CAL	Camel				
JZ0007	TJ10-GRE	Green				
JZ0005	TJ10-BLK	Black				
JZ0003	TJ13-YOW	Yellow	Foot ϕ 13mm Clutch-system ϕ 80mm	Aluminum Screw	10'	0.67kg
JZ0001	TJ13-GRY	Gray				
JZ0016	TJ13-CAL	Camel				
JZ0017	TJ13-GRE	Green				
JZ0002	TJ13-BLK	Black				
JZ0011	TJ15-CAL	Camel	Foot ϕ 13mm Clutch-system ϕ 80mm	Copper Screw	10'	0.70kg
JZ0012	TJ15-YOW	Yellow				
JZ0018	TJ16-YOW	Yellow	Foot ϕ 13mm Clutch-system ϕ 80mm	Copper Screw	10'	0.80kg
JZ0013	TJ16-GRY	Gray				
JZ0019	TJ16-CAL	Camel				
JZ0020	TJ16-GRE	Green				
JZ0021	TJ16-BLK	Black				
JZ0010	TJ19	Black&Yellow	Foot ϕ 13mm Clutch-system ϕ 80mm	Copper Screw	10'	1.52kg
JZ0014	TJ23	Yellow	Clutch-system ϕ 80mm	Copper Screw	10'	0.70kg

TL10




- Fixed adapter, available in camel, green, yellow, black and gray
- Plate vial: 60"
- Erect image

TL10L




- Fixed green adapter, suitable for reflectors with stub fitting
- Plate vial: 60"

TL13




- Fixed adapter, available in yellow, gray and camel
- Plate vial: 60"

TL14




- Non-rotatable adapter with 5/8 thread for GNSS receiver
- Clutch-system  $\phi$  80mm

TL15




- Includes rotating screw with 5/8 thread for GNSS receiver
- Clutch-system  $\phi$  80mm

TL16




- Fixed adapter with laser plummet, available in camel, black, yellow, gray
- Plate vial: 60"

TL23




- Simple adapter for use
- Suitable for GPS carrier with 5/8 thread

TL23LG




- Socket adapter
- Suitable for reflectors with direct fitting

CRT10



- Simple adapter for use
- Suitable for reflectors with direct fitting


CRT11




- Simple adapter for use
- Suitable for reflectors with direct fitting

Part No.	Type	Color	Clutch-system	Material	Bubble	Weight
AL0008	TL10-YOW	Yellow	80mm	Zinc-aluminum Alloy	60"	0.50kg
AL0009	TL10-GRY	Gray				
AL0010	TL10-CAL	Camel				
AL0011	TL10-GRE	Green				
AL0012	TL10-BLK	Black				
AL0013	TL10L	Green	80mm	Zinc-aluminum Alloy	60"	0.57kg
AL0014	TL13-YOW	Yellow	80mm	Zinc-aluminum Alloy	60"	0.49kg
AL0015	TL13-GRY	Gray		Zinc-aluminum Alloy		
AL0016	TL13-CAL	Camel		Zinc-aluminum Alloy		
AL0017	TL14	Black	80mm	Zinc-aluminum Alloy	None	0.17kg
AL0001	TL15	Black	80mm	Zinc-aluminum Alloy	None	0.32kg
AL0018	TL23	Yellow	80mm	Zinc-aluminum Alloy	None	0.44kg
AL0020	TL23LG	Yellow	80mm	Zinc-aluminum Alloy	None	0.5kg
AL0021	CRT10	Green	80mm	Zinc-aluminum Alloy	None	0.28kg
AL0002	CRT11	Green	80mm	Zinc-aluminum Alloy	None	0.42kg


Clamp Lock





Twist Lock





Compress Lock







 SOKKIA Thread(ST)

 TOPCON Thread(TT)

 LEICA Thread(LT)

(Default Sokkia thread)





NLS31/33/35

Two unit reading (meter/feet)  
High quality metal clamp for easy and rapid adjustment

NLS11/13/15


Graduated in meter  
Twist lock provides easy and secure tightening


CLS11/NLS21

Graduated in meter  
Compress lock provides quick calibration

CLS25

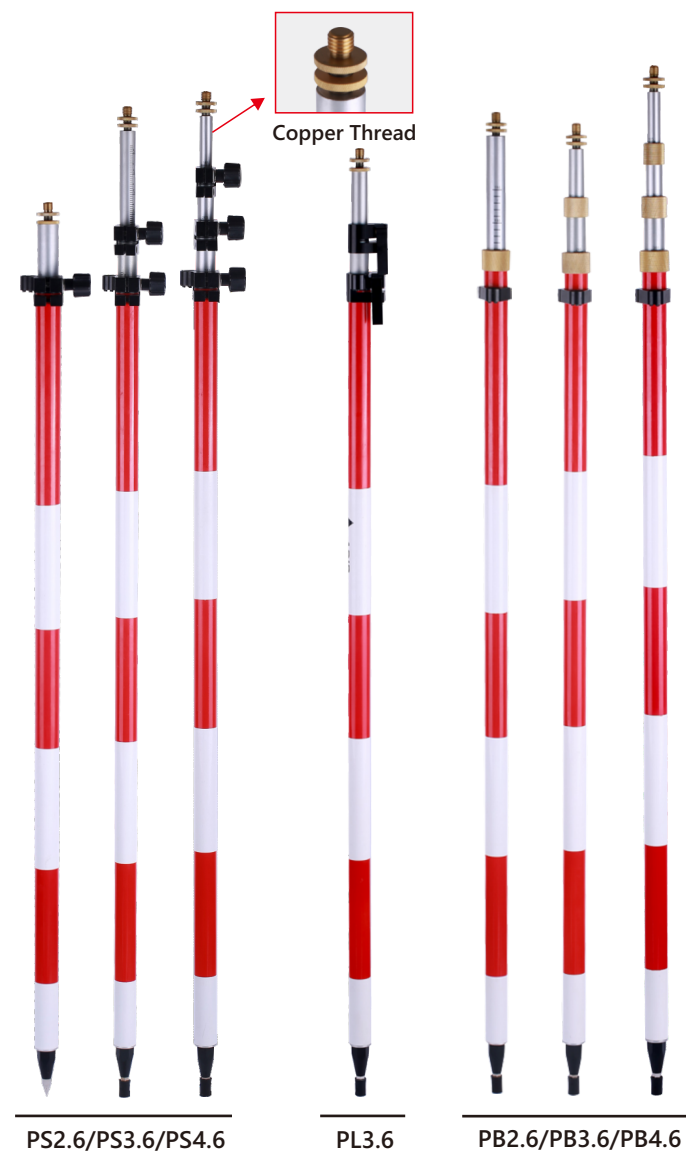
Carbon fiber pole  
Also compatible with RTK products





Model	PN	Pole $\Phi$	Sections	Full length	Min. Length	Lock Type	Net. Wt
CLS11	18.13.001	25mm	2 sections	2150mm	1300mm	Compress	1.4kg
NLS11	18.13.004	24mm	2 sections	2500mm	1370mm	Twist	1.3kg
NLS13	18.13.005	36mm	3 sections	3600mm	1550mm	Twist	2.0kg
NLS15	18.13.006	36mm	4 sections	5000mm	1700mm	Twist	2.3kg
NLS21	18.13.002	24mm	2 sections	2150mm	1300mm	Twist	1.1kg
NLS31	18.13.007	32mm	2 sections	2500mm	1370mm	Clamp	1.8kg
NLS33	18.13.009	36mm	3 sections	3600mm	1600mm	Clamp	2.3kg
NLS35	18.13.011	36mm	4 sections	5000mm	1700mm	Clamp	2.7kg
CLS25	18.13.015	30mm	2 sections	2250mm	1275mm	Side twist	1.0kg

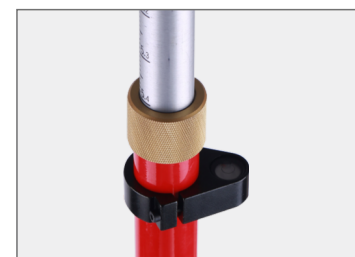




**Side Twist**  
The soft rubber knob is easy for tighten and loosen



**Clamp Lock**  
Quick-release clamp lock allows for a simple and fast setup

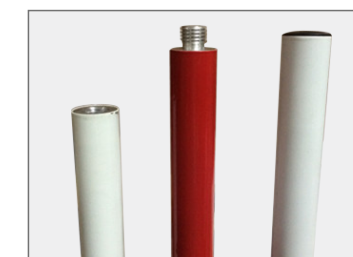
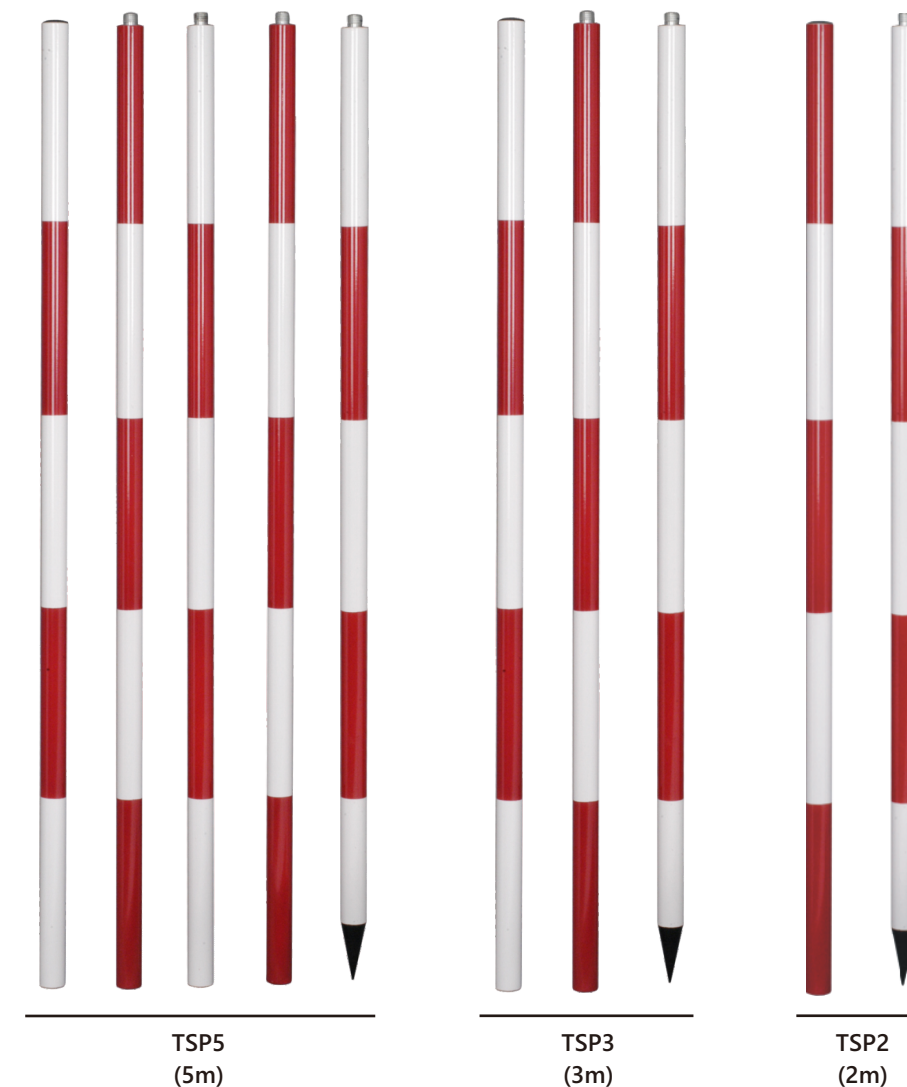


**Twist Lock**  
Constructed of sturdy copper locking mechanism



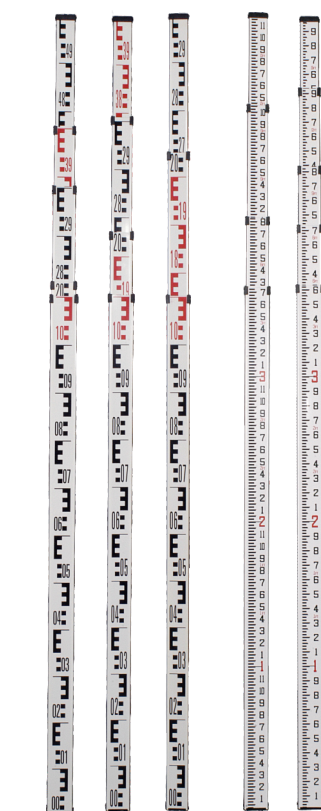
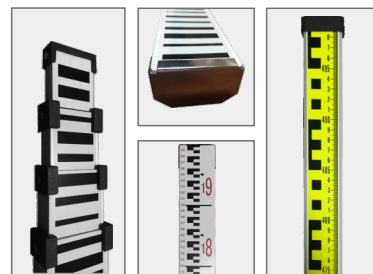
**Adjustable Tip**  
Features an anodized aluminum body with an easy-to-replace steel point

Model	PN	Pole Φ	Sections	Grads	Full length	Min. Length	Lock Type	Net. Wt
PS2.6	19.01.001	35mm	2 sections	Dual	2600mm	1470mm	Side Twist	1.45kg
PS3.6	19.01.002	35mm	3 sections	Dual	3600mm	1520mm	Side Twist	1.84kg
PS4.6	19.01.003	35mm	4 sections	Dual	4650mm	1570mm	Side Twist	2.30kg
PL2.6	19.01.004	35mm	2 sections	Dual	2600mm	1470mm	Clamp	1.47kg
PL3.6	19.01.005	35mm	3 sections	Dual	3600mm	1520mm	Clamp	1.89kg
PL4.6	19.01.006	35mm	4 sections	Dual	4650mm	1570mm	Clamp	2.25kg
PB2.6	19.01.007	35mm	2 sections	Dual	2600mm	1470mm	Twist	1.37kg
PB3.6	19.01.008	35mm	3 sections	Dual	3600mm	1520mm	Twist	1.86kg
PB4.6	19.01.009	35mm	4 sections	Dual	4650mm	1570mm	Twist	2.14kg



Model	PN	Each Stripe	Overall length deviation	Each meter deviation	Interval deviation	Net. Wt
TSP2	21.13.0010	20cm	±2mm	±1mm	±2mm	0.5kg
TSP3	21.13.0011	20cm	±3mm	±1mm	±3mm	0.8kg
TSP5	21.13.0012	20cm	±3mm	±1mm	±4mm	1.4kg
ESP2	21.13.0007	20cm	±2mm	±1mm	±2mm	0.5kg
ESP3	21.13.0008	20cm	±3mm	±1mm	±2mm	0.8kg
ESP5	21.13.0009	20cm	±4mm	±1mm	±2mm	1.3kg

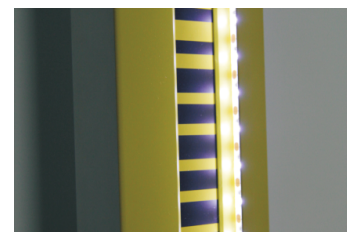




AGR3/4/5  
(3m/4m/5m Telescopic Staff)



NSA-50M/SSI-2M  
(5m/2m Code Staff)



LED illumination optional



Rechargeable by USB



Precised circle bubble



Humanized handle design

SI-2M  
(2m Invar Staff)

Model	PN	Material	Sections	Overall length deviation	Each meter deviation
AGR3	21.13.0001	Aluminum	3m, 3 sections	±2mm	±0.5mm
AGR4	21.13.0002	Aluminum	4m, 4 sections	±3mm	±0.5mm
AGR5	21.13.0003	Aluminum	5m, 5 sections	±3mm	±0.5mm
AGR7	21.13.0005	Aluminum	7m, 5 sections	±3mm	±0.5mm
NSA-50M	1.08.003.0014	Aluminum	5m, 5 sections	±1.2mm	±0.35mm
SSI-2M	6.07.314.0001	Fiber Glass	2m, 1 section	±1mm	±0.35mm

Invar Staff Specification		
Circle Bubble		≤12' /2mm
Surface curvature distinction		≤4mm
Vertical of central axis and underside		≤5'
Tolerance of zero point		≤0.05mm
Barcode graduation tolerance	Deviation	≤0.02mm
	Standard Deviation	≤0.013mm
Interval tolerance		≤0.04mm
PN		6.07.181.0001

## Aluminum Tripod



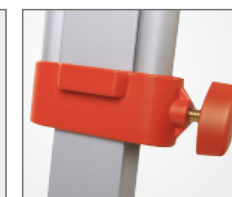
Aluminum tripod with carrying straps and side optional screws

- Light-weight and durable aluminium design
- No shrinking or swelling in tough conditions
- Flat head; Tripod thread: 5/8" M16
- Decorative chain is optional



ATS-3

ATS-5



Model	PN	Full Length	Min.Length	Lock	Head (Outer)	Head (Inner)	Leg	Weight
ATS-1	20.13.0001	1650mm	970mm	Twist	158mm	66mm	Quadrate	3.5kg
	20.13.0002			Clamp				
ATS-3	20.13.0005	1700mm	1000mm	Twist	158mm	66mm	Round	3.7kg
	20.13.0006			Clamp				
ATS-5	20.13.0007	1600mm	970mm	Twist	120mm	45mm	Round	3.0kg
	20.13.0008			Clamp				
ATS-JP1	20.18.0001	1645mm	1030mm	Clamp	160mm	67.5mm	Round	4.0kg
ATS-JP2	20.18.0002	1655mm	1030mm	Twist	160mm	67.5mm	Round	4.0kg
ATS-JP3	20.18.0003	1645mm	1030mm	Twist & Clamp	160mm	67.5mm	Round	4.2kg
NAT-81CT	20.13.0015	1700mm	1000mm	Twist & Clamp	158mm	66mm	Quadrate	5.0kg

## Wooden Tripod



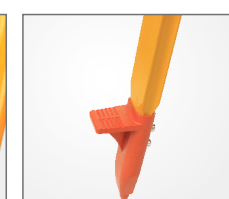
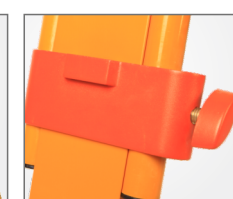
Wooden tripod with long lasting coat of painting, widely used for Total Station/ GPS System

- Joints and shoe points made by stable metal.
- Extra stability due to double banded legs
- Supplied with shoulder strap
- Round head optional for ATS-MR3



ATS-MP1

ATS-MR3



Model	PN	Full Length	Min.Length	Lock	Head (Outer)	Head (Inner)	Weight
ATS-MP1	20.18.0004	1755mm	1090mm	Clamp	160mm	67.5mm	7.5kg
ATS-MP2	20.18.0005	1780mm	1090mm	Twist	160mm	67.5mm	7.5kg
ATS-MP3	20.18.0006	1755mm	1090mm	Twist & Clamp	160mm	67.5mm	7.5kg
ATS-MR3	20.18.0007	1755mm	1090mm	Twist & Clamp	167mm	68.5mm	8.4kg



## Fiberglass Tripod



Fiberglass tripod provide the excellent stability and strong resistance in tough conditions

- Long-lasting coated for hardware
- Quick and easy release for extended height
- Flat head



ATS-4B

ATS-6B



Model	PN	Full Length	Min.Length	Lock	Head (Outer)	Head (Inner)	Weight
ATS-2B	20.18.0041	1800mm	1080mm	Twist	158mm	66mm	5.88kg
ATS-4B	20.18.0042	1630mm	970mm	Twist	158mm	66mm	4.5kg
ATS-6B	20.18.0043	1550mm	940mm	Twist	120mm	45mm	3.5kg
ATS-FP1	20.18.0008	1755mm	1090mm	Clamp	160mm	67.5mm	8.2kg
ATS-FP2	20.18.0009	1780mm	1090mm	Twist	160mm	67.5mm	8.0kg
ATS-FP3	20.18.0010	1755mm	1090mm	Twist&Clamp	160mm	67.5mm	8.5kg

## Heavy-Duty Tripod



ATS-20

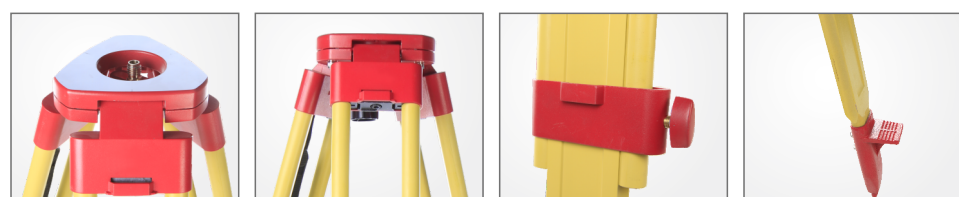
Heavy duty tripod with side twist lock

- Use for Total Station/ GPS System
- Proven long-life, twist-proof and excellent vibration characteristics
- Including heavy-duty shoulder trap for easier carrying



ATS-22

ATS-24



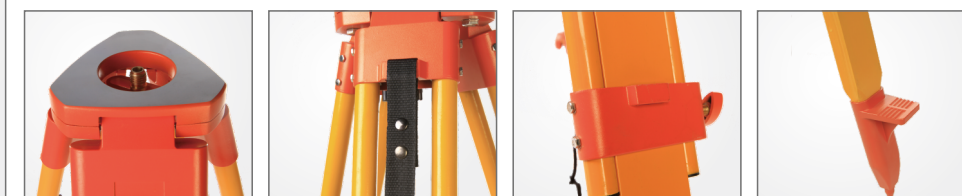
Model	PN	Full Length	Min.Length	Lock	Head (Outer)	Head (Inner)	Weight
ATS-20	20.13.0028	1700mm	1000mm	Twist	158mm	66mm	6.0kg
ATS-22	20.13.0029	1700mm	1090mm	Twist	160mm	66mm	7.0kg
ATS-24	20.13.0030	1700mm	1000mm	Twist&Clamp	160mm	66mm	7.0kg

## Fiberglass-Wooden Tripod



Fiber-Wood hybrid tripod, the legs made by fiberglass and wood

- Large aluminum head and leg hinges provide stable mounting base
- Long-lasting coated for metal parts.
- Aluminum shoe with hardened metal points.



Model	PN	Full Length	Min.Length	Lock	Head (Outer)	Head (Inner)	Weight
ATS-BP1	20.20.0001	1760mm	1090mm	Clamp	160mm	67.5mm	7.5kg
ATS-BP2	20.20.0002	1760mm	1090mm	Twist	160mm	67.5mm	7.5kg
ATS-BP3	20.20.0003	1760mm	1090mm	Twist&Clamp	160mm	67.5mm	7.5kg

## Elevator Tripod



Aluminum elevator tripod provide an adjustable and smooth mounting base

- EATS is a kind of light weight elevator tripod which features a flat in 124mm head and an elevator column extends to 110 cm
- A gear box controls the lift and descent of the flat
- Widely used in leveling and scanning



Model	PN	Full Length	Min.Length	Lock	Screw	Weight
EATS	20.13.0045	3000mm	1100mm	Twist	5/8"	5.8kg

## Set-up a free-standing prism pole or GNSS antenna pole

### ADS22 – Thumb Release Bipod

- This open-clamp head bipod features the soft-touch sponge handle.
- Quick-levelling bipod with thumb release legs.
- 21mm to 36mm diameter poles attach easily through its open clamp.
- Extended to 1855mm in maximum.
- Leg snap into the clip making the poles convenient for transport or storage.
- Easy carry with carry bag
- Weight 1.96kgs



### ADS33 – Thumb Release Tripod

- Quick-released tripod creates free-standing GNSS antenna poles or prism poles.
- Soft-touch sponge handle with thumb lock design for easier setup.
- Rubber locking knob.
- 21mm to 36mm diameter poles can be loaded through the top.
- Extended to 1855mm in maximum.
- Easy carry with carry bag
- Weight 2.60 kgs



### GSR23 – Aluminum Clamp Release Tripod

- This tripod features a smooth and round head.
- Quick release with clamp
- Full-metal tiptoe for stable standing.
- 22mm to 36mm diameter poles can be loaded through the top.
- Extended to 1835mm in maximum.
- Easy carry with carry bag
- Weight 1.28kgs



### ADS115 – Alligator Clamp Prism Pole Tripod

- This tripod features a ball-and-socket head with powder-coated aluminum.
- Alligator clamp with rubber jaws, hold a pole (less than 25mm) firmly in place
- Extended to 1250mm in maximum.
- Weight 1.28kgs



Model	Full Length	Min.Length	Lock	Features	Weight
ADS22	1855mm	1120mm	Thumb Release	Works with poles from φ21-36mm	1.96kgs
ADS33	1855mm	1120mm	Thumb Release	Works with poles from φ21-36mm	2.80kgs
GSR23	1835mm	1210mm	Compress Lock	Works with poles from φ21-36mm	2.60kgs
ADS115	1250mm	775mm	Clamp Lock	Works with poles less than φ25mm	1.28kgs