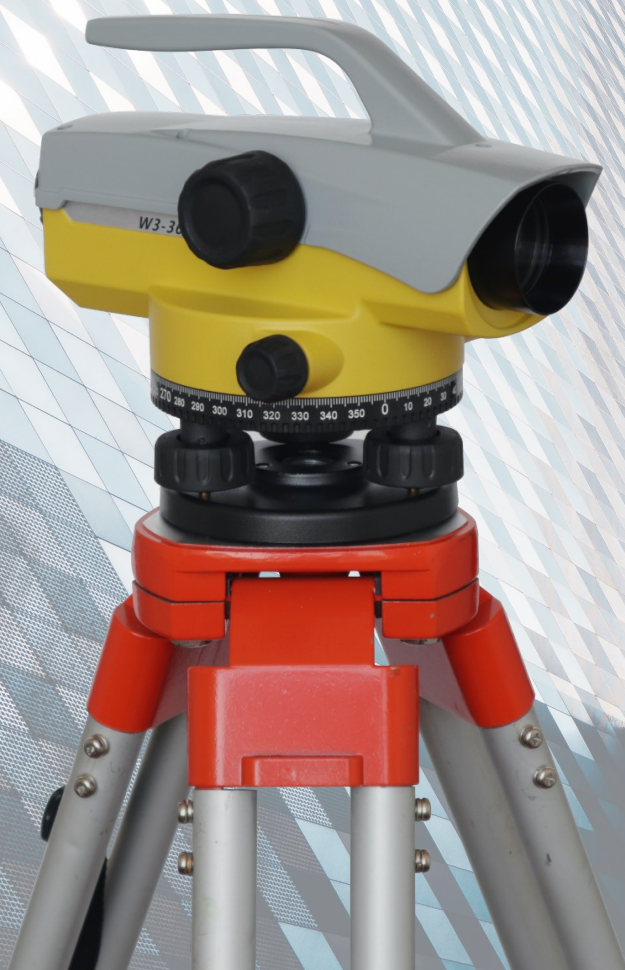


TWX

CATALOGUE 2024

TWX TRADE CO., LTD

- Auto level
- Theodolite
- Digital auto level
- Laser level
- Prism and tribrach
- Measuring wheel
- Tripod and leveling rod
- Collimator
- Accessory



Web: www.twxtrade.com
E-mail :info@twxtrade.com

Tel: +86 22 6862 8436
Mobile/WhatsApp: +86 130 1221 2419

Address: Room 421, A5 Xinghai Home Plaza, Chaoyang Road, Jinghai District, Tianjin, China

AUTO LEVEL DS 32XL

- New design, metal top cover with handle
- Magnetic damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	DS 32XL
Compensator	Magnetic Damping
Image	Erect
Objective Aperture	40mm
Field Of View	1°20'
Minimum Focusing Distance	0.3m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1.5mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL DS A32

- Classic design, plastic top cover
- Magnetic damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	DS A32
Compensator	Magnetic Damping
Image	Erect
Objective Aperture	40mm
Field Of View	1°20'
Minimum Focusing Distance	0.3m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1.5mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL SL32

- New design, plastic top cover
- Air damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	SL32
Compensator	Air Damping
Image	Erect
Objective Aperture	40mm
Field Of View	1°20'
Minimum Focusing Distance	0.5m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1.5mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL DS C32

- Classic design, plastic top cover
- Air damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	DS C32
Compensator	Air Damping
Image	Erect
Objective Aperture	40mm
Field Of View	1°20'
Minimum Focusing Distance	0.5m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1.5mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL DS Z32-1

- Metal top cover and handle
- Large objective lens
- Clear image
- Good accuracy



Technical data:

Model:	DSZ32-1
Magnification	32X
Compensator	Magnetic Damping
Image	Erect
Objective Aperture	45mm
Field Of View	1°20'
Minimum Focusing Distance	0.3m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL DSZL 32



- Auto level with laser
- Metal top cover and handle
- Large objective lens
- Clear image
- Good accuracy

Technical data:

Model:	DSZL32
Magnification	32X
Compensator	Magnetic Damping
Image	Erect
Objective Aperture	45mm
Field Of View	1°20'
Minimum Focusing Distance	0.3m
Stadia Ratio	100
Setting Accuracy	±0.3"
Compensating Range	±15'
1km Double Run Leveling	±1.0mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon
Laser Wave Length	635nm
Laser accuracy	1mm
Laser Spot Size	5mm/100m
deviation between laser beam and sight axis of telescope	< 5°
Battery	CR123A

AUTO LEVEL W3-36B

- Metal top cover and large handle
- Metal bubble
- High accuracy
- Clear image and 36X magnification
- New design

Metal bubble



Technical data:

Model:	W3-36B
Magnification	36X
Compensator	Air Damping
Image	Erect
Objective Aperture	38mm
Field Of View	1°20'
Minimum Focusing Distance	0.6m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL W3-32A

- New design
- Metal bubble
- High accuracy
- Clear image and 32X magnification

Metal bubble



Technical data:

Model:	W3-32A
Compensator	Air Damping
Image	Erect
Objective Aperture	38mm
Field Of View	1°20'
Minimum Focusing Distance	1m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	1mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL AL19-32

- New design
- Metal bubble
- High accuracy
- Clear image and 32X magnification

Metal bubble



Technical data:

Model:	AL19
Compensator	Magnetic Damping
Image	Erect
Objective Aperture	38mm
Field Of View	1°20'
Minimum Focusing Distance	1m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±2.5mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL AL8-32

- Classic design
- Magnetic damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	AL8-32
Compensator	Magnetic Damping
Image	Erect
Objective Aperture	36mm
Field Of View	1°20'
Minimum Focusing Distance	1m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±2.5mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL AL10

Three top covers are available



- Classic design, 3 different top cover
- Air damping compensator
- High accuracy
- Clear image and 32X magnification

Technical data:

Model:	AL10-32
Compensator	Air Damping
Image	Erect
Objective Aperture	36mm
Field Of View	1°20'
Minimum Focusing Distance	1m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1.5mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL DSZ-32

- Classic design, plastic top cover
- Air damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	DSZ-32
Compensator	Air Damping
Image	Erect
Objective Aperture	36mm
Field Of View	1°20'
Minimum Focusing Distance	1m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±2mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL AL12

Three top covers are available



- Classic design, plastic top cover
- 3 top cover are available
- Air damping compensator
- High accuracy
- Clear image and 32X magnification

Technical data:

Model:	AL12-32
Compensator	Air Damping Compensator
Image	Erect
Objective Aperture	36mm
Field Of View	1°20'
Minimum Focusing Distance	1m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1.5mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL AL12 Plus

- New design, plastic top cover
- Air damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	AL12A Plus
Compensator	Air Damping Compensator
Image	Erect
Objective Aperture	38mm
Field Of View	1°20'
Minimum Focusing Distance	0.3m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1.5mm
Circular Level Sensitivity	8"/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL LZ AL32

- New design, plastic top cover
- Magnetic damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	LZ AL-32
Magnification	32X
Compensator	Magnetic
Image	Erect
Objective Aperture	36mm
Field Of View	1°20'
Minimum Focusing Distance	0.4m
Stadia Ratio	100
Setting Accuracy	± 0.3"
Compensating Range	±15'
1km Double Run Leveling	±1.5mm
Circular Level Sensitivity	8'/2mm

AUTO LEVEL LZA-38

- New design, metal top cover
- Magnetic damping compensator
- High accuracy
- Clear image and 38X magnification



Technical data:

Model:	LZA-38
Magnification	38X
Compensator	Magnetic
Image	Erect
Objective Aperture	47mm
Field Of View	1°10'
Minimum Focusing Distance	1m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL AL-K336

- New design, metal top cover
- Air damping compensator
- High accuracy
- Clear image and 36X magnification



Technical data:

Model:	AL-K336
Magnification:	36X
Compensator	Air Damping Compensator
Image	Erect
Objective Aperture	40mm
Field Of View	1°20'
Minimum Focusing Distance	0.6m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1mm
Circular Level Sensitivity	8"/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL AL-K232



- New design, plastic top cover
- Air damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	AL-K232
Magnification:	32X
Compensator	Air
Image	Erect
Objective Aperture	40mm
Field Of View	1°20'
Minimum Focusing Distance	0.6m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

AUTO LEVEL AL-K132

- New design, plastic top cover
- Air damping compensator
- High accuracy
- Clear image and 32X magnification



Technical data:

Model:	AL-K132
Magnification:	32X
Compensator	Air
Image	Erect
Objective Aperture	40mm
Field Of View	1°20'
Minimum Focusing Distance	0.6m
Stadia Ratio	100
Setting Accuracy	± 0.5"
Compensating Range	±15'
1km Double Run Leveling	±1mm
Circular Level Sensitivity	8'/2mm
Horizontal Circle Graduation	1° or 1gon

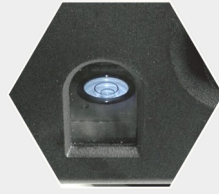
DIGITAL AUTO LEVEL DAL32



Large handle



Touch swich



Bubble with lights



Parameter of Digital level DAL32

Model:	DAL32	
Magnification	32X	
Image		Erect
Standard Deviation on 1km of Double Leveling	Electronic measurement	$\pm 1.0\text{mm/km}$
	Visual Measurement	$\pm 1.5\text{mm/km}$
Accuracy of Distance Measurement	$D \leq 10\text{m}$	$< \pm 10\text{mm}$
	$10\text{m} < D \leq 50\text{m}$	$< \pm 0.1\%D$
	$D > 50\text{m}$	$< \pm 0.2\%D$
Measuring Range		2m~100m
Minimum Displayed Value	Elevation	0.0001m
	Distance	0.001m
Measuring Time		$< 3''$
Measuring Unit		m
Graduation of Horizontal Circle		360°
Telescope	Resolving power	3''
	Field of View	$1^\circ 20'$
Compensator	Type	Magnetic Damping
	Compensation Range	$\pm 15'$
	Compensation Accuracy	$0.3''/1'$
	Setting Accuracy	$\pm 0.4''$
Data Storage	Internal	1000
	Interface	Micro-USB
Circular Level Sensitivity		$8'/2\text{mm}$
Power supply	Rechargeable Li-ion battery	2200mAh
	Continuous working time	> 20 hours
Net Weight		1.9kgs
Waterproof grade		IP55
Working temperature		$-20^\circ\text{C} \sim +50^\circ\text{C}$

DIGITAL AUTO LEVEL DL1-32



Technical data:

Model		DL1
Magnification		32X
Image		Erect
Standard Deviation on 1km of Double Leveling	Electronic measurement	±0.7mm/km
	Visual Measurement	±1.2mm/km
Measuring Range		3m~120m
Minimum Displayed Value	Elevation	0.0001m
	Distance	0.001m
Measuring Time		<3"
Graduation of Horizontal Circle		360°
Telescope	Resolving power	3"
	Field of View	1°20'
Compensator	Type	Magnetic Damping
	Compensation Range	±15'
	Setting Accuracy	±0.3"
Circular Level Sensitivity		8/2mm
Power supply	Alkaline battery	4*AA 1.5v
	Continuous working time	>20 hours
Net Weight		1.8kgs
Waterproof grade		IP65
Working temperature		-20°C ~ +50°C

ELECTRONIC THEODOLITE



LDT 202B/202BL



LDT 302/302L



LDT 402/402L

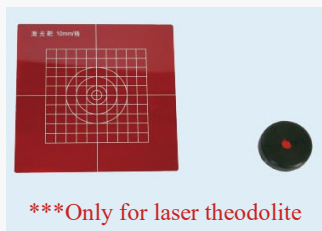
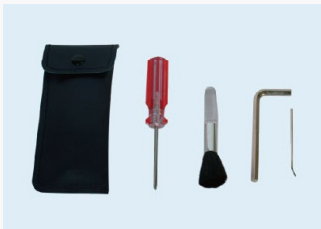


LCD display and Keyboard



Optical plummet (optional)

Accessories:



***Only for laser theodolite



Optional



Optional

Parameter of the Electronic theodolite

Model	LDT 202BL / 302L / 402L	LDT 202B / 302 / 402
Telescope		
Length of Telescope	156mm	156mm
Image	Erect	Erect
Objective Lens Aperture	45mm	45mm
Magnification	30X	30X
Field of View	1°30'	1°30'
Resolving Power	3.5"	3.5"
Shortest Sighting Distance	1.5m	1.3m
Angle Measurement		
Method	absolute	Absolute
Detecting	Horizontal: double Vertical: Single	Horizontal: double Vertical: Single
Minimum Reading	1" / 5"	1" / 5"
Accuracy	2"	2"
Display Panel	double display	double display
Compensator		
Tilt Sensor	yes	yes
Range	+/-3'	+/-3'
Output Interface		
Communication Standard	RS232C	RS232C
Data Output Interface	yes	yes
Memory	1000 points	1000 points
Laser Plummet		
Laser power	1mW	1mW
Dot Diameter	≤2mm	≤2mm
Accuracy	1.0mm	1.0mm
Base plate	Detachable	Detachable
Battery	Chargeable Battery or AA	Chargeable Battery or AA
Working Duration	About 45 hours	About 45 hours
Sensitivity of Long Vial	30"/2mm	30"/2mm
Sensitivity of Bubble	8'/2mm	8'/2mm
Size	160x175x340mm	160x175x340mm
Working Temperature	-20°C ~ +50°C	-20°C~+50°C
Net Weight	4.3kgs	4.3kgs
Collimation laser		
Wavelength	635nm	
Max working distance	200m(shading sunlight)	
Coaxial error of Laser axis and visual the collimation axis	≤10"	

Rotary laser LS818-R



Feature :

- Fully automatic leveling ;
- Electronic vials and positioning motors ;
- Controlled by temperature-stables sensors for auto alignment ;
- Reliable and easy to operate ;
- High quality with reasonable price .

Kit includes :



Model No	LS818-R
Auto level accuracy	Horizontal: ±15" Vertical: ±20"
Down point accuracy	≤±1mm/1.5M
Output power	≤1mW, class II
Laser wave	635nm red beam
Auto level range	±5°
Working range with receiver (dia)	600M
Remote control distance	25M
Slope range	±5°
Scanning speed	0r.p.m./60r.p.m./120r.p.m./300r.p.m./600r.p.m. (adjustable)
Scanning width	0.10°.45°.90°.180° (adjustable)
Power	DC4.8-6V (N-H rechargeable battery x 4)
Time in continous use	15 hours (N-H rechargeable battery x 4)
Working temperature	-20°C~+50°C
Dust proof and Splash-proof	IP54
Dimensions (LxWxH) MM	160 (L) x160 (W) x185 (H) mm
Net Weight (kgs)	3.0kgs include batteries
Gross Weight (kgs)	6.0kgs
Accessories	Remote controller x 1, Detector with clamp X 1, Rechargeable battery x 4, Charger x 1, Instruction manual x 1, Plastic carrying case x 1

Rotary laser LS818-G



Feature :

- Fully automatic leveling ;
- Electronic vials and positioning motors ;
- Controlled by temperature-stables sensors for auto alignment ;
- Reliable and easy to operate ;
- High quality with reasonable price .

Kit includes :

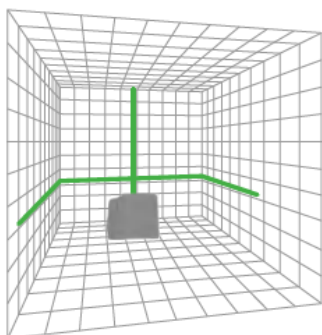


Model No	LS818-G
Auto level accuracy	Horizontal: ±15" Vertical: ±20"
Down point accuracy	≤±1mm/1.5M
Output power	≤1mW, class II
Laser wave	520nm green beam
Auto level range	±5°
Working range with receiver (dia)	1000M
Remote control distance	25M
Slope range	±5°
Scanning speed	0r.p.m./60r.p.m./120r.p.m./300r.p.m./600r.p.m. (adjustable)
Scanning width	0.10°.45°.90°.180° (adjustable)
Power	DC4.8-6V (N-H rechargeable battery x 4)
Time in continuous use	15 hours (N-H rechargeable battery x 4)
Working temperature	-20°C~+50°C
Dust proof and Splash-proof	IP54
Dimensions (LxWxH) MM	160 (L) x160 (W) x185 (H) mm
Net Weight (kgs)	3.0kgs include batteries
Gross Weight (kgs)	6.0kgs

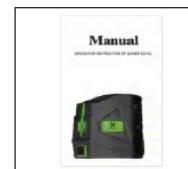
Accessories

Remote controller x 1, Detector with clamp X 1, Rechargeable battery x 4, Charger x 1, Instruction manual x 1, Plastic carrying case x 1

Mini 2 line Laser level HC2302G



Standard Configuration:
Cloth Bag/Battery/Manual



Optional Configuration: Bracket



SPECIFICATIONS

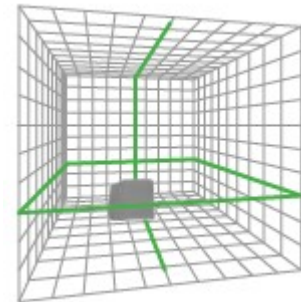
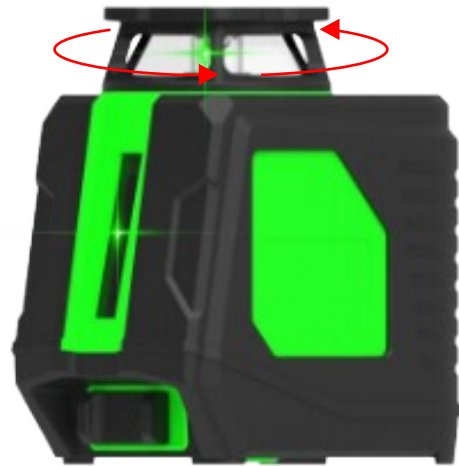
Model	HC2302G
Laser Power	20mW
Laser Diode Wave Length	505-520nm
Working Range	30m
Automatic Leveling Range	±3.5°
Damping Level	Magnetic Damping(≤4s)
Accurcy	±1.5mm/5m
Operating Temp	-10°C~50°C
Dimensions	80x56x70mm
Laser Level Weight	0.2kg
Packing	Cloth Bag



Mini 5 line Laser level HC2305G



360° manual rotation



SPECIFICATIONS

Model	HC2305G
Laser Power	20mW
Laser Diode Wave Length	505-520nm
Working Range	30m
Automatic Leveling Range	±3.5°
Damping Level	Magnetic Damping(≤4s)
Accuracy	±1.5mm/5m
Operating Temp	-10°C~50°C
Dimensions	90x53x90mm
Laser Level Weight	0.35kg
Packing	Cloth Bag

Standard Configuration:
Cloth Bag/Battery/Manual

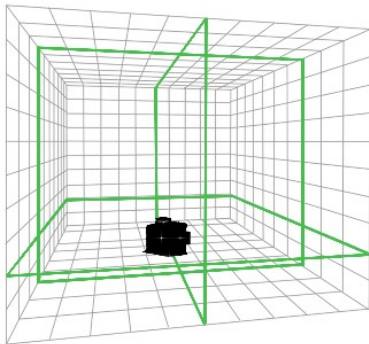


Optional Configuration: Bracket





Mini 12 line Laser level HC2312G



Standard Configuration:

Cloth Bag/Lithium Battery/Manual/Charger/Remote Control



Optional Configuration:

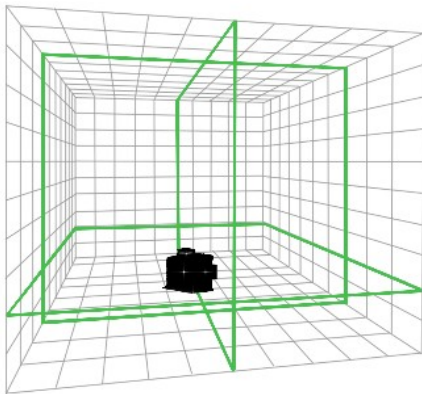
Plastic Box/Lift/Bracket/Base



SPECIFICATIONS

Model	HC2312G
Laser Power	30mW
Laser Diode Wave Length	505-520nm
Working Range	30m
Automatic Leveling Range	±3°
Damping Level	Magnetic Damping(≤4s)
Accuracy	±1mm/5m
Operating Temp	-10°C~50°C
Dimensions	100x70x90mm
Laser Level Weight	0.45kg
Packing	Cloth Bag

Mini 16 line Laser level HC2316G



Standard Configuration:

Cloth Bag/Lithium Battery/Manual/Charger/Remote Control



Optional Configuration:

Plastic Box/Lift/Bracket/Base



SPECIFICATIONS

Model	HC2316G
Laser Power	30mW
Laser Diode Wave Length	505-520nm
Working Range	30m
Automatic Leveling Range	±3°
Damping Level	Magnetic Damping(≤4s)
Accuracy	±1mm/5m
Operating Temp	-10°C~50°C
Dimensions	120x70x110mm
Laser Level Weight	0.5kg
Packing	Cloth Bag

Laser distance meter



GZ T SERIES RED LASER

- Size: 115mm x 50mm x 25mm
- Weight with battery: 100g
- Battery: Alkaline, AAA*3, measuring about 5000 times.
- Unit: meter, feet, inch
- Laser: red, 620-690nm
- Measuring Distance: 0.05m-40m, 60m, 80m, 100m
- Accuracy: +/-2mm
- Benchmark: both front benchmark and back benchmark are available
- Multiple measurement features: length, area, volume, Pythagorean method-three points
- Data storage: max 99 groups data



BDL T SERIES RED LASER

- Size: 115mm x 46mm x 26mm
- Weight with battery: 150g
- Battery: 2xAA, measuring about 10,000 times.
- Unit: meter, feet, inch
- Laser: red, 630-670nm
- Measuring Distance: 0.05m-40m, 60m, 80m or 100m
- Accuracy: +/-1.5mm
- Benchmark: both front benchmark and back benchmark are available
- Multiple measurement features: length, area, volume, Pythagorean method-three points
- Data storage: max 30 groups data



BDL T SERIES GREEN LASER

- Size: 115mm x 46mm x 26mm
- Weight with battery: 150g
- Battery: 2xAA, measuring about 10,000 times.
- Unit: meter, feet, inch
- Laser: red, 630-670nm
- Measuring Distance: 0.05m-40m, 60m, 80m or 100m
- Accuracy: +/-1.5mm
- Benchmark: both front benchmark and back benchmark are available
- Multiple measurement features: length, area, volume, Pythagorean method-three points
- Data storage: max 30 groups data

Accessory for surveying instrument



Digital measuring wheel



Mechanical measuring wheel



Tripod for auto level, theodolite, total station
single lock or dual locks



Aluminum level rod, 3m,4m,5m,7m



Aluminum prism pole 2.6m, 3.6m, 4.6m
Collect lock, quick clamp lock, and twist lock



Bipod, tripod for prism pole



Potable RTK pole
52cm-150cm



Tribrach



Adapter



Prism kit



Mini reflector

Collimator for surveying instrument



**Collimator for auto level
F4201T**



**Collimator for
auto level, theodolite, total station
F4203T**

Collimator is used to test the surveying instrument, such as auto level, theodolite, total station, laser level etc.