

beA ring

Quality surveying for everyone.



BXR series
TOTAL STATIONS

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BUILT FOR YOUR NEEDS

Quality surveying made available for everyone.

Bearing instruments aims to provide users affordable yet reliable precision instruments for land surveying, mapping and construction applications.

The Bearing BXR Series Total Stations are designed for both beginner and advanced users. Surveying programs have a user-friendly design and easy-to-follow instructions. Surveying programs are fully customizable and upgradeable based on the user's needs.



EASE OF USE

- Absolute encoding
- SD Card direct to USB up to 32 GB
- USB Cable or Bluetooth data transfer
- Dual, wide display, 8 lines, 18 characters
- Can open another job files and use other jobs measured or coordinate files while on current file
- Point number, code, and target height input after measurement



SUPERIOR EDM TECHNOLOGY



- German-made EDM motor
- Prisms up to 600 m



MODEL	BXR2	BXR2-600
TELESCOPE		
Image	Erect	
Magnification	30X	
Effective Aperture	45mm	
Resolving Power	4"	
Field Of View	1°30'	
Minimum Focus	1.5m	
DISTANCE MEASUREMENT		
Prismless	600m	
Target Sheet	1km	
Range 1P	3km	
Range 3P	5km	
Accuracy	2mm+2ppmxD	
Minimum Count	1mm	
Distance Unit	ft. or m selectable	
MEASURING TIME		
Fine	1.8 sec. (first time 2.5sec.)	
Tracking	0.4 Sec.	
Maximum display	999999.999m	
ATMOSPHERIC CORRECTION		
Temperature	C or F	
Atmospheric Pressure	hPa/mmHg/inHg	
Atmospheric Deflection & Earth Curvature Correction	k=0.14/0.20/0	
Prism Constant	0 mm / 30 mm / Manual Input	
ANGLE MEASUREMENT		
Measurement Method	Incremental Photoelectronic Encoder	
DETECTION METHOD		
Horizontal	Dual	
Vertical	Dual	
Accuracy	2"	
Minimum Readout	1" / 5" / 10"	

ACCURACY AND PRECISION

- Accuracy: 2"
- Least count: 1" / 5" / 10"
- Integrated Laser Plummet @ 1mm Accuracy
- Backsight distance check
- Dual-Axis compensator

COMPATIBILITY, STABILITY, AND SECURITY

- Security password
- Li-ion battery, up to 16 hours operating time
- Mini prism slot inside carrying case
- Mini-prism pole can fit to standard prism 5/8 11 thread
- Slope, horizontal, vertical distance, and vertical and horizontal angle quick view

PACKAGE INCLUSIONS



BEARING Total Station, 2 pcs. Battery, Charger, USB cable, 4 GB (Upgradeable to 32 GB) SD Card, Carrying Case, Tool Kit, Rain Cover, Lens Cover, Bearing Quick Guide, and USB Card Reader

Optional Accessories: Bearing Tripod, Bearing Prism, Bearing Prism Pole (2.6m/ 3.6m/ 4.7m), Bearing Mini Prism, Bearing Tribrach, Diagonal Eyepiece, Solar Eyepiece

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MODEL	BXR2	BXR2-600
SENSITIVITY OF VIALS		
Plate Vial	30"/2mm	
Circular Vial	8'/2mm	
Compensation	Dual Axis Compensation	
Type	Liquid-electric detection/Plate level	
Compensation Range	+/-3'	
Resolution	1"	
LASER POINTER		
Laser classification	3R	
OPTICAL PLUMMET		
Image	Erect	
Magnification	3X	
Focus Range	0.5m-infinity	
LASER PLUMMET		
Wave length	635nm	
Power	1mw	
Accuracy	1.5mm / 1.5m	
DISPLAY		
Wide Display	LCD, 8 lines, Double Side, 18 characters	
MEMORY		
Internal	50,000 points	
External	8 GB SD Card to USB, up to 32 GB	
DATA PORT		
SD Card with USB adaptor, Bluetooth, RS232 to USB		
OTHERS		
IP Class	IP-X4	
Weight	6.5kg	
battery	2 units, 7.4 V DC Li-ion, 2200 mAh, up to 16 hrs	
Charger	100V - 220 V	
Charging Time	3 hours	
Operating Temperature	-20 °C - +50 °C	