SPECIFICATIONS

Angle Measurement

incusurement rietho	dAbsolute Encouning
Minimum Readout	1"/5"/10"
	(0.3mgon/1.5mgon/3mgon) adjustable
Accuracy ¹	2"
Distance Measurer	ment (ZTS-320 with Reflector)
Single Prism	3000m (9,842ft.) under good condition ³
Three Prisms	6000m (19,685ft.) under good condition ³
Reflective Sheet	800m (2,624 ft.)
Accuracy	2 mm +2ppm
Measuring Time (Fin	e/Quick/Tracking)1.5s/1s/ 0.5s
Distance Measurer	ment(ZTS-320R Reflectorless)
	350m(1,148ft.), 600m(1,969 ft.) optiona
_	>7500m (24,606ft.
, and the second	3mm+2ppr
•	1.5s
ricusuring rime	-10
Telescope	
Magnification	30×
Field of View	1°30′ (2.7m at 100m)
Minimum Focusing D	istance1.5m
Reticle	
Compensator	
SystemSingl	le-axis liquid tilt sensor/Dual-axis (optional)
Working Range	±3
Setting Accuracy	1″
Communication	
Bluetooth	
Intenface Ct.	" DC333 CD
	ard RS232, SD card ⁴ , USB pen drive, mini-B
Internal Data Memor	ard RS232, SD card ⁴ , USB pen drive, mini-B ryApprox. 20,000 Points ASCI

Operation

Operation system.....Real-time Operating System Display.....High resolution backlight black and white display with contrast adjustment/ Graphics......192 x 96 pixels Character: 6 lines x 25 characters Keyboard.....2 sides Alphanumeric backlit crystal keyboard

Laser Plummet

...Laser point, 4 brightness levels adjustment / Optical plummet (optional) Centering Accuracy....1 mm at 1.5m instrument height

Power Supply

Battery Type.. ..Rechargeable Li-ion battery Voltage/Capacity.....ZBA-400:7.4V (DC) / 3000mAh Operating Time With ZBA-400.....Optimal 16 hours⁵ (Continuous angle measurement every 30 seconds) / 10 hours (typical) Measuring Times..Approx. 12000 times

Weight (Incl. Battery&Tribrach)..... Approx. 5.5kg (12.1lb.)

Environmental

Operating Temperature.....-20 $^{\circ}$ C ~ + 50 $^{\circ}$ C (-4 $^{\circ}$ F to +122 $^{\circ}$ F) Storage Temperature.....-40 $^{\circ}$ C \sim + 70 $^{\circ}$ C (-40 $^{\circ}$ F to + 158 $^{\circ}$ F) Dust&Water Proof (IEC60529 Standard)/Humidity.....IP65, 95%, non-condensing

Descriptions and specifications are subject to change without notice

HI TARGET

Hi-Target Surveying Instrument Co. Ltd

ADD: Building 13, Tian'An Technology Zone HQ Center, No.555, North of Panyu RD, Panyu District, 511400 Guangzhou, China www.hi-target.com.cn





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ZTS-320/R Total Station



¹ Standard deviation based on ISO 17123-3.

² Calculated by Kodak Gray card white side (90% reflective), exact distance depends on measuring object, observation and environment conditions.

⁴ Maximum extension up to 32GB.

⁵ New battery at 25°C, 24 hours continuously angel measurement mode.

Dual-axis Compensation

The ZTS-320/R is configured with advanced dual-axis compensator for auto error elimination and auto accuracy compensation.

Absolute Encoding

The absolute encoding disk ensures high accuracy, efficiency and stable performance. Initialization is needless but to measure the angle immediately as the ZTS-320/R is turned on. The azimuth information won't be missed even the ZTS-320/R is power-off unexpectedly.

High-performance MCU SMT32

The SMT32 MCU based on ARM Cortex[™]-M processor enables the ZTS-320/R has extra high processing speed and low-power consumption.

Bluetooth

The Bluetooth wireless technology makes ZTS-320/R accessible to any data collector for real-time communication. The third party field software such as Carlson SurvCE is fully compatible with the ZTS-320/R.

Data Storage

Diversified data transfer options such as SD card, USB pen drive, mini-B interface.

Backlight

The display and keyboard with backlight for working in the dark.

Diagonal Eyepiece

Support diagonal eyepiece for observations at steep line of sight.

Calibration Software

The proprietary HI-TARGET calibration software is accessible for real-time diagnosis to ensure trouble-free operation.

Data Transfer Software

The proprietary HI-TARGET data transfer software supports different type of output data format, which can be used in AutoCAD or other brands' post processing software.



Absolute Encoding



Bluetooth



High-performance MCU



Diagonal Eyepiece



Data Storage



Data Transfer Software





