

SPECIFICATIONS

Angle Measurement

Measurement Method.....Absolute Encoding
 Minimum Readout.....1"/5"/10"
 (0.3mgon/1.5mgon/3mgon) adjustable
 Accuracy¹.....2"

Distance Measurement

Single Prism.....3000m (9,842ft.) under good condition³
 Three Prisms.....6000m (19,685ft.) under good condition³
 Reflective Sheet.....800m (2,624 ft.)
 Accuracy.....2 mm +2ppm
 Measuring Time (Fine/Quick/Tracking).....1.5s/1s/ 0.5s

Distance Measurement

Reflectorless² Range600m(1,969 ft.)
 Single Prism.....>7500m (24,606ft.)
 Accuracy.....3mm+2ppm
 Measuring Time.....1.5s

Telescope

Magnification.....30X
 Field of View.....1°30' (2.7m at 100m)
 Minimum Focusing Distance.....1.2m
 Reticle.....Illuminated

Compensator

System.....Dual-axis liquid tilt sensor
 Working Range.....±3'
 Setting Accuracy.....1"

Communication

Bluetooth
 Interface.....Standard RS232, SD card⁴, USB pen drive, mini-B
 Internal Data Memory.....Approx. 20,000 Points
 Data Format.....ASCII

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

Type.....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

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

Environmental

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

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.

³ Good condition: no haze, visibility about 40km, moderate sunlight,

⁴ Maximum extension up to 32GB.

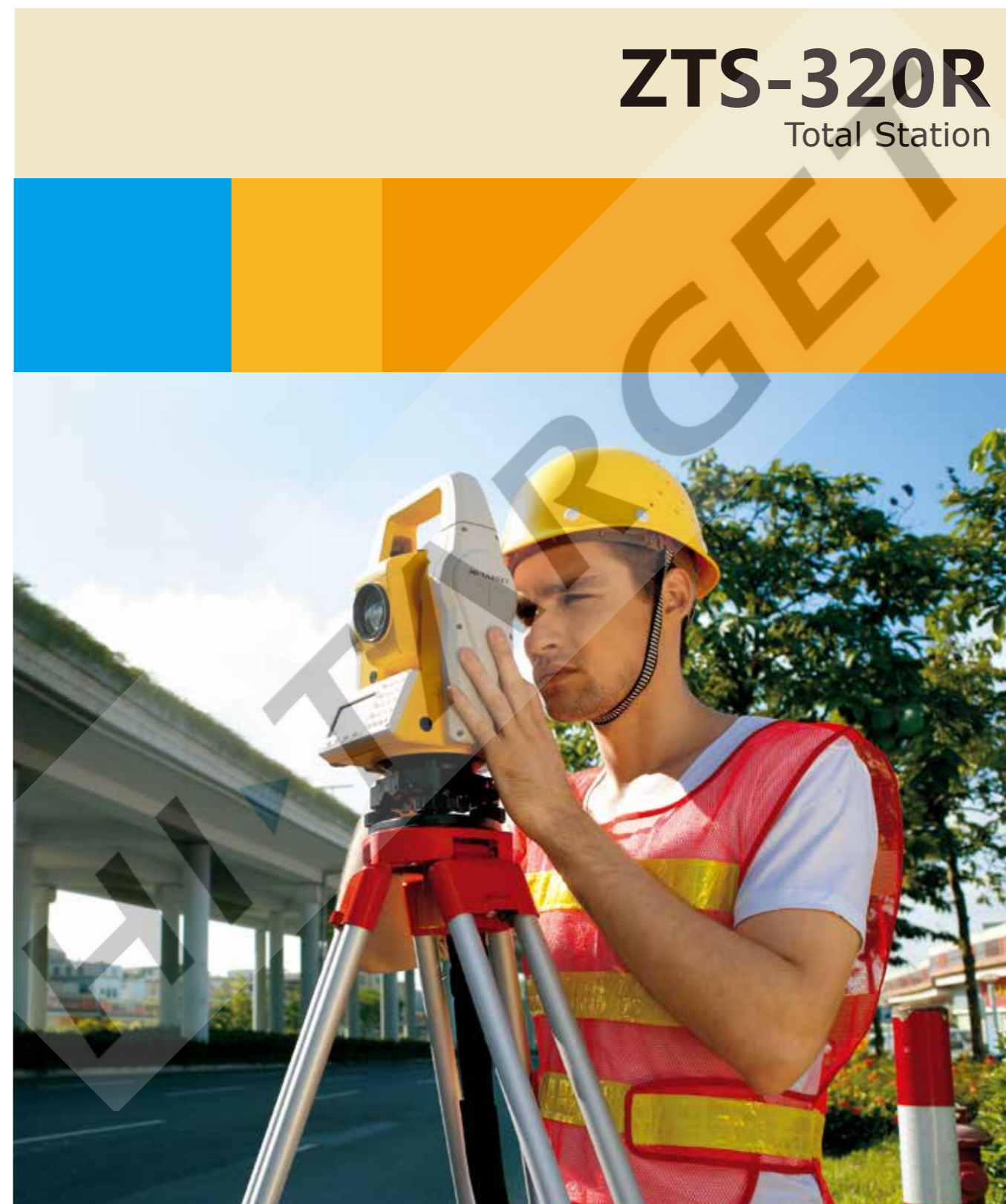
⁵ New battery at 25°C, 24 hours continuously angel measurement mode.

Descriptions and specifications are subject to change without notice

HI-TARGET

Surveying the world, Mapping the future.

ZTS-320R Total Station



Hi-Target AUTHORIZED DISTRIBUTION PARTNER

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FC CE IP65

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Dual-axis Compensation

The ZTS-320R 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-320R is turned on. The azimuth information won't be missed even the ZTS-320R is power-off unexpectedly.

High-performance MCU SMT32

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

Bluetooth

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

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.



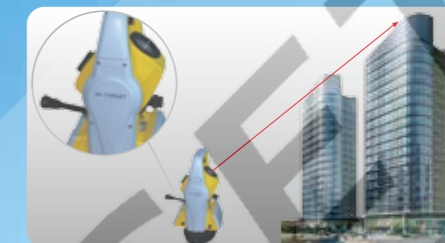
Absolute Encoding



Bluetooth



High-performance MCU



Diagonal Eyepiece



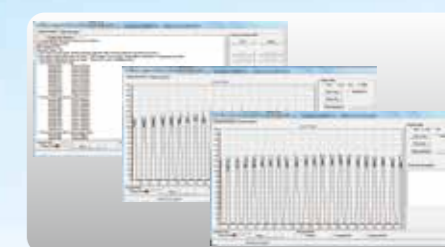
Data Storage



Data Transfer Software



Backlight



Calibration Software

