

SPECIFICATIONS

Angle Measurement	<ul style="list-style-type: none"> • Measurement Method: Absolute Encoding • Minimum Readout: 1"/5"/10" (0.3 mgon / 1.5 mgon / 3 mgon) • Accuracy¹: 2"
Distance Measurement	<ul style="list-style-type: none"> • Single Prism: 3000 m (9,842 ft.) under good condition³ • Three Prisms: 6000 m (19,685 ft.) under good condition³ • Reflective Sheet: 800 m (2,624 ft.) • Accuracy: 2 mm + 2 ppm • Measuring Time (Fine / Quick / Tracking): 1.5s / 1s / 0.5s
Distance Measurement	<ul style="list-style-type: none"> • Reflectorless² Range: 350 m (1,148 ft.) • Single Prism: > 7500 m (24,606 ft.) • Accuracy: 3 mm + 2 ppm • Measuring Time: 1.5 s
Telescope	<ul style="list-style-type: none"> • Magnification: 30 X • Field of View: 1°30' (2.7 m at 100 m) • Minimum Focusing Distance: 1.2 m • Reticle: Illuminated
Compensator	<ul style="list-style-type: none"> • System: Single-axis liquid tilt sensor • Working Range: ±3' • Setting Accuracy: 1"
Communication	<ul style="list-style-type: none"> • Interface: Standard RS232, microUSB port⁴ • Internal Memory: Approx. 20,000 Points • Data Format: ASCII
Operation	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Type: Laser point, 4 brightness levels adjustment • Centering Accuracy: 1 mm at 1.5m instrument height
Power Supply	<ul style="list-style-type: none"> • Battery Type: Rechargeable Li-ion battery • Voltage/Capacity: ZBA-400: 7.4 V (DC) / 3000 mAh • Operating Time: Optimal 16 hours⁵ (Continuous angle measurement every 30 seconds) / 10 hours (typical) • Measuring Times: Approx. 12000 times
Weight	<ul style="list-style-type: none"> • Weight (Incl. Battery & Tribrach): Approx. 5.5 kg (12.1 lb.)
Environmental	<ul style="list-style-type: none"> • 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.

Hi-Target AUTHORIZED DISTRIBUTION PARTNER

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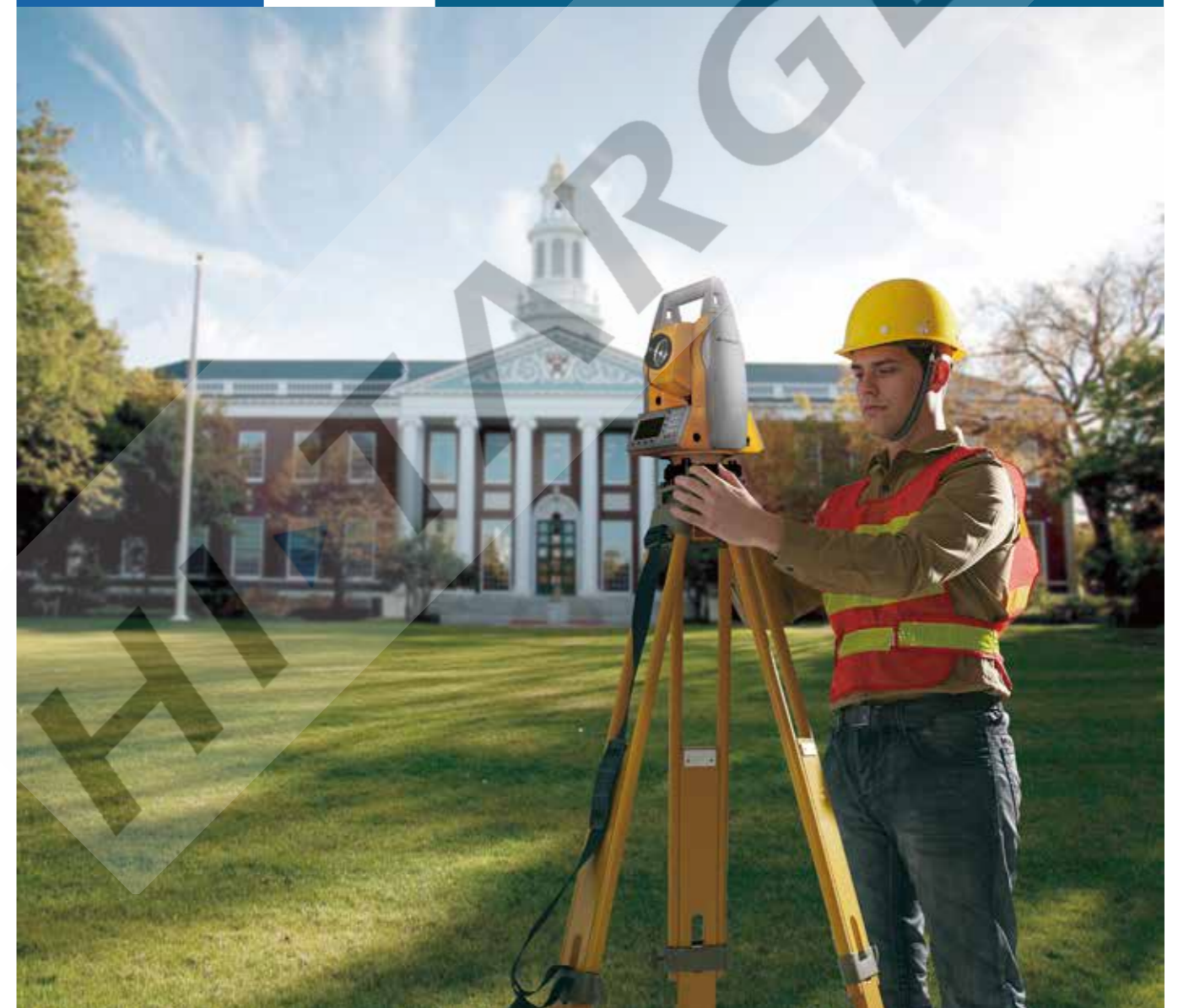
HI-TARGET

Surveying the World, Mapping the Future.

ZTS-320R

Educational Edition Total Station

- Big Data Storage
- Fast Measuring
- Complete Solution Experiences



CE  IP65

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ZTS-320R

Educational Edition Total Station

Basing on the platform identical with ZTS-320R, the performance had been inherited. This cost-effective total station with 2" accuracy and 350 meter reflector less range is ideal for our future surveyors in the campus.



Key Features



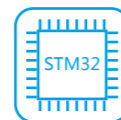
• Compensation

Configured with advanced axis compensator for error elimination and accuracy improvement.



• Absolute Encoding

To measure the angle without initialization after it is powered on. Information will not go missing even the machine is shut off unexpectedly.



• High-performance MCU

The STM32 MCU based on ARM Cortex™-M processor brings the extra high processing speed and low-power consumption.



• Data Storage

20,000 points capacity for internal storage and 32GB storage with external thumb drive.



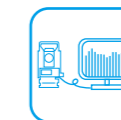
• Backlight

The display and keyboard are equipped with backlight for working in the darkness.



• Diagonal Eyepiece

Supports diagonal eyepiece for observations at steep line of sight.



• Calibration Software

Hi-Target calibration software is designed for real-time diagnosis to ensure trouble-free operation.



• Desktop Software

Hi-Target desktop data transfer software supports data download and conversion to different user-defined format, including CAD, CSV, GTS-7, etc.