

SPECIFICATIONS

Angle Measurement

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

Distance Measurement

Single Prism.....4000m (13,123ft.) under good condition³
 Three Prisms.....6000m (19,685ft.) under good condition³
 Reflective Sheet..... 800m (2,624 ft.)
 Accuracy.....2 mm +2ppm
 Measuring Time (Fine/ Tracking).....0.8s/0.3s

Distance Measurement

Reflectorless² Range.....600m
 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..... Single-axis liquid tilt sensor/Dual-axis(optional)
 Working Range..... ±3'
 Setting Accuracy.....1"

Communication

Bluetooth
 Interface.....Standard RS232, USB, mini-B
 Internal Data Memory..... Approx. 20,000 Points,
 default 8G USB pen drive
 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
 Keyboard.....2 sides Alphanumeric backlit crystal keyboard
 Trigger key.....On right instrument support

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) / 3400mAh
 Operating Time With ZBA-400.....Optimal 16 hours⁴ (Continuous
 angle measurement every 30 seconds)
 Measuring Times..... Approx. 12000 times

Physical

Weight (without battery).....Approx. 3.7kg (8.16lb.)
 Size.....300mm x 150mm x150mm(HxWxD)

Environmental

Meteorological parameter modification.....Manually(T-P
 sensor is optional)
 Operating Temperature..... -20°C ~ +50°C (-4°F to +122°F)
 Storage Temperature..... -25°C ~ +70°C (-13°F to +158°F)
 Dust&Water Proof (IEC60529 Standard)/Humidity.....IP66,
 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 New battery at 25°C, 24 hours continuously angel measurement mode

Descriptions and specifications are subject to change without notice

ZTS-360R

Total Station

Long Ranging, Fast Measurement



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