



**IP55**  
WATERPROOF

DATA  
OUTPUT

**TOTAL STATION (BASIC TYPE)**  
**CODE TSA-B33**



single prism (optional)



prism tripod (optional)



measuring tape (included)



USB flash drive (included)



tripod (included)



- With rear intersection, setting out, overhang measurement, eccentricity measurement and other functions
- Widely used in surveying and mapping engineering, construction engineering and many other precise measurement fields
- Safe class 3R laser rangefinder with prism-free range up to 1500m
- Absolute coded goniometric technology, horizontal and vertical discs are easy to measure with a counterpoise probe
- Biaxial liquid photoelectric electronic compensator automatically corrects instrument leveling errors
- Built-in temperature and air pressure sensor automatically corrects distance measurement errors
- Can revise prism constant

## SPECIFICATION

|   |                 |  |
|---|-----------------|--|
| Distance measurement<br>(With cooperation target)               | measuring range | prism: 5000m<br>reflective patch (60mm×60mm): 1000m  |
|   | accuracy        | $\pm(2+D/500)$ mm, D: measured distance, unit: m   |
|   | measuring time  | continuous measurement: 0.25s,<br>tracking measurement: 0.1s,<br>single measurement: <1.0s                           |
| Prism-free distance measurement<br>(Without cooperation target) | measuring range | 1500m (Kodak Grey, 90% reflectivity)*  |
|   | accuracy        | 0-300m: $\pm(3+D/500)$ mm<br>300-600m: $\pm(5+D/500)$ mm<br>>600m: $\pm(10+D/500)$ mm, D: measured distance, unit: m |
|   | measuring time  | continuous measurement: 0.25s<br>tracking measurement: 0.1s<br>single measurement: <1.0s                             |
| Angle accuracy  |                 | $\pm 2''$  |
| Minimum angular reading   |                 | 0.1"/1" (selectable)   |
| Telescope barrel length   |                 | 152mm  |
| Telescope magnification   |                 | 30X  |
| Field of view   |                 | 1°30"  |
| Frame rate  |                 | 3"   |
| Minimum focus distance  |                 | 1.5m   |
| Compensator   |                 | range: $\pm 6'$ , accuracy: $\pm 1''$  |
| Tube level bubble   |                 | 30"/2mm  |
| Round level bubble  |                 | 8'/2mm   |
| Display   | screen type     | 240×160 dot matrix high definition high brightness display   |
|   | screen size     | 3.1 inch   |
|   | digital display | maximum: 99999999.9999m minimum: 0.1mm   |
| Data transmission   |                 | USB flash drive, bluetooth   |
| Power supply  |                 | 7.4V replaceable battery for 8 hours of continuous operation   |
| Dimension (L×W×H)   |                 | 206×180×353mm  |
| Weight  |                 | 5.4kg  |

\* Good weather: overcast sky, light wind, no fog, visibility about 40km

## STANDARD DELIVERY

|                                  |       |
|----------------------------------|-------|
| Main unit                        | 1 pc  |
| Tripod                           | 1 pc  |
| Power adapter and charging cable | 1 set |
| Li-ion battery                   | 2 pcs |
| USB flash drive                  | 1 pc  |
| Measuring tape                   | 1 pc  |

## OPTIONAL ACCESSORY

|              |             |
|--------------|-------------|
| Single prism | TSA-B33-PR  |
| Prism tripod | TSA-B33-PRT |