

TOTAL STATION SPECIFICATIONS

Total Station

- TELESCOPE: Upright image, coaxial. Magnification 30× at least, accuracy 6 CC.
- Manual or Servo-driven fine motion operation. Rotating speed 80°/sec/2 steps at least
- Visible coaxial target point dot.
- Distance measurement (prism mode) range with one (1) prism 2 km at least.
- Distance measurement (non-prism mode) range (LASER) 1km at least, under all conditions, with the ability to measure on low reflectivity surfaces such as steel structures of towers and conductors of overhead high voltage lines. This ability should be confirmed by the participants before the ending of tender.
- Distance measurement (prism mode) accuracy $\pm 2 \text{ mm} + 3 \text{ ppm} \times D$.
- Distance measurement (non-prism mode) accuracy $\pm 5 \text{ mm} + 10 \text{ ppm} \times D$.
- Measuring time < 3 sec, all mode.
- Tilt correction: Dual axis Compensator $\pm 6'$.
- Operating System: Windows/ Greek Menus, RAM > 64MB, ROM 4 MB (Flash ROM), SD Card 8GB.
- Storage capacity of 10000 points at least, of full collection of field data.
- Integrated programs for calculation of inaccessible point elevation and lateral measurements with LASER.
- Display Color LCD TFT 3.5' (240×320d).
- Interface ports RS 232 C/Bluetooth/ two-way communication.
- Autonomy of continuous operation 5 hours.
- Guarantee that the instruments can withstand adverse operation conditions (dust, humidity, rain, temperature 5° - 50°C).
- Unit Weight < 7 kg with battery.

Necessary accessories

- Tribrac base with optical centering
- One (1) aluminium tripod
- One (1) mini prism
- One (1) telescoping pole, light type, with one extension of 1 m.
- One (1) fitting adapter for GPS.
- Two (2) batteries Li-Ion.
- Installation of programs for communication, common field procedures and design data processing.
- Training programs for the users upon the delivery of the instrument.