19 SPECIFICATIONS

Telescope



(#) TÄPSUS

Distance measurement

Measuring range (in good atmospheric conditions)

Non- prism (Reflector: Kodak Gray Card, 90% reflective)

MTS1002R --- 600m MTS1002R+ --- 1000m

Single prism:

MTS1002R --- 5.0km MTS1002R⁺ --- 7.5 km MTS1002 --- 5.0km MTS1005 --- 5.0km

Accuracy:

Prism mode \pm (2mm+2ppm·D) Non-prism mode \pm (5mm+3ppm·D)

Minimum reading:

Fine measurement mode : 1mm (0.005ft.)

Coarse measurement mode : 10mm (0.02ft.) / 1mm (0.005ft.)

Tracking measurement mode : 10mm (0.02ft.)

Measuring time:

Fine measurement (repeat) about 1.0sec (first time 2sec)
Coarse measurement (repeat): about 0.7sec (first time 2sec.)
Tracking measurement: about 0.3 sec (first time 1.5sec.)

Angle measurement

Minimum reading: 5" /1" (1mgon / 0.2mgon)

Standard deviation:

MTS1002R ---2"(0.6mgon) MTS1002R+---2"(0.6mgon) MTS1002 ----- 2"(0.6mgon) MTS1005 ----- 5"(1.5mgon)

Measuring time: 0.1sec

Tilt correction

Type Dual-Axis Range of compensation: $\pm 3'$ Correction unit: 1"

Level sensitivity

Circular level: 8'/2mm Plate level: 30"/2mm

Plummet

Red laser 1.5mm (Ins.H:1.5m)

Data management and transfer

Memory points 40000

Data transmission

RS-232C Bluetooth USB flash drive

Battery

Voltage: DC 7.2-7.4V

Capacity

Rechargeable batteries BDC25H 2.5AH

Working duration $(20^{\circ}C)$:

Distance and angle measurement: 6 hours Angle measurement only 20 hours

Rechargeable batteries BDC40L(optional) 3.2AH

Working duration $(20^{\circ}C)$:

Distance and angle measurement: 8 hours Angle measurement only 25 hours

Temperature range

Storage: -40℃~+60℃ -20℃~+55℃ Operating:

Dimension 190X210X350mm

Weight 6.5kg

