



TheoDist® FTD 02

Reflectorless Total stations

The geo-FENNEL TheoDist® is designed to be user- friendly and quick to set up on any construction site. Easy to handle, robust, exact and reliable.

The main features of the geo-FENNEL TheoDist® are:

- > Measuring programs that provide efficient and easy solution for setting out
- > Three-dimensional measurement of coordinates
- > Menu driven software with intuitive structure to maximise productivity
- > A visible laser pointer to improve targeting accuracy and allowing measurements to be taken without looking through the telescope
- > Data can be uploaded and downloaded to a PC via the RS-232 connection or SD-Card (FTD 02)
- > Measuring range of up to 300m (FTD 05: 200m) without reflector
- > Quick and easy set-up with the integrated laser plummet

The geo-FENNEL TheoDist® Series is equipped with a variety of programs from simple distance and angle measurement up to precise three-dimensional setting out.

- > Missing Line
- > Offset
- > Remote elevation measurement
- > Resection
- > Integrated application programs for setting out office generated designs.
- > Area

The communication software supplied with the geo-FENNEL TheoDist® allows the user to save the data in various formats. The data files can be converted into DXF format making them suitable to be uploaded into CAD Software such as AutoCAD®.

Features

- > Coordinate measuring
- > Setting out points
- > Resection
- > Missing line measurement
- > Offset point
- > Remote elevation measurement
- > Area calculation
- > Angle repetition
- > Set out line
- > Set out curve
- > Set out road

Supplied with

Charger, 2 rechargeable batteries, serial cable, software, RS 96 Stake Out Aid, SD-Card, container

Technical data

Telescope

Image

Erect

Objective aperture

45 mm

Magnification

30 x

Field of view

1° 30'

Resolving power

4"

Shortest focus distance

1.5 m

PRODUCT INFORMATION

Distance measurement

Reflectorless

300 m

Reflective tape target

600 m

Single standard Prism

5,000 m

Accuracy

2 mm + 2 ppm

Offset

variable

Measuring time

Fine / Rapid / Tracking

1,8 s / 0,9 s / 0,3 s

Minimum reading

1 mm

Distance units

m / ft

Angle measurement

Minimum reading resolution

1" / 5" / 10"

Angle accuracy

2"

Angle units

100 % / 360° / 400 gon

Compensator

Type
electronic

Range
 $\pm 3^\circ$

Laser pointer

Laser classification
3R

Laser plummet

Accuracy
 $\pm 1 \text{ mm} / 1.5 \text{ m}$

Laser classification
2

Display

Dual LCD
8 Lines, 18 Characters

Power

Rechargeable battery type
7.2 V DC NiMH

PRODUCT INFORMATION

Operating time
5 h

Charger
100 / 240 V

Vial sensitivity

Plate level vial
30" / 2 mm

Circular vial
8" / 2 mm

General specs

Internal memory
50.000 Points

External memory
SD-Card

Weight
6.5 kg

Operating temperature
-20 °C - +50 °C

IP-Class
IP X4

I/O-Port
RS-232