



LASER THEODOLITE

# **DT-110L**

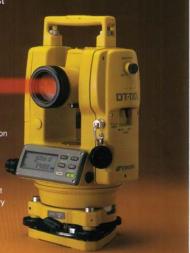


Topcon opens the door to the 21st Century In the latest technology of Laser Theodolite with the Introduction of the DT-110L.

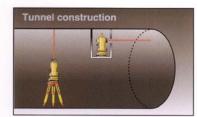
Since the introduction of our Waterproof DT-100 Series Digital Theodolite, Topcon has incorporated the same concept in our NEW DT-110L Laser Theodolite. The DT-110L is suitable for wet and damp conditions such as underground tunnel applications.

Our laser diode technology replaces the conventional helium neon laser tube. The benefit of using a laser diode in the DT-110L is the compact and light weight design and the instrument consumes less power. The DT-110L is powered by dry cell batteries that last up to 28 hours when only using the laser.

The NEW TOPCON WATERPROOF DT-110L is the most efficient and reliable laser theodolite for the professional engineer.



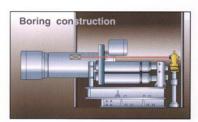
## Field Applications



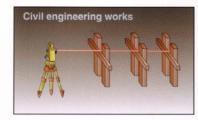
Setting control points and known points



Vertical setting of steel columns/Plumbing Vertical lines

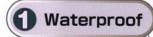


Control boring machine



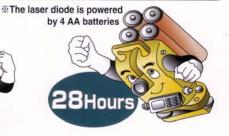
Grade control

## Feature Benefits To Increase Work Productivity

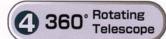


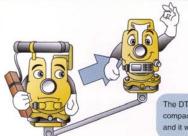
Longer Use With Dry Battery

TOPCON's new Laser Theodolite DT-110L can stand up to any "Wet-Weather" conditions that occur on the job site (IPX-6). This makes the DT-110L particularly suitable for use in damp tunnel conditions where a laser theodolite is the perfect tool.



Compact & Light Weight





The DT-110L is extremely compact in size for portability and it weighs only 4.3 kg.



Simple Operation & High Reliability

TOPCON has combined precise measurements in a functional package which is so easy to operate that anyone on the site can use it without the need of special training.



300m

Laser spot **√12mm**Φ

TOPCON uses a laser diode for longer laser life and reliability. A TOPCON laser diode is more convenient to use and easier to maintain than a He-Ne laser.

#### **SPECIFICATIONS**

DT-110L (LASER)		DT-110L Angle Measurement	
Wave length	633nm	Detecting	Horizontal: 2 sides
Laser class	Class 2		Vertical: 1 side
Laser diameter		Minimum reading	5"/10"
5m	0.2mmø		(1mgon/2mgon)
20m	0.8mmø	Accuracy *1	5"
50m	2mmø	Level Sensitivity	
100m	4mmø	Plate level	40"/2mm
200m	10mmø	Circular level	10'/2mm
300m	12mmø	Com	pensator
(THEODOLITE)		Tilt sensor	Automatic Vertical
Telescope			compensator
Length	149mm	Compensating range	±3'
Objective Lens	40mm	Power Supply	
Magnification	30X	Battery	4 AA batteries
Image	Erect		
Field of view	1°30'	Operating time	28hrs Laser use Only
Resolving power	2.8"		11hrs Laser & Angle use
Minimum focus	1m	Others Others	
Stadia constant		Tribrach type	Detachable
Stadia ratio		Instrument height	176mm
Optical Plummet Telescope		Tangent screw	One speed
Magnification 3X		Water Protection	
Field of view	5°		Water proof
Focusing range	0.5m~∞	Standard *2	IPX6

<sup>\*1</sup> Standard deviation based on DIN 18723 \*2 Standard based on IEC529

STANDARD SET COMPOSITION DT-110L(with lens cap), Carrying case ,Plumb Bob,Tool kit with case,

AA battery,AC/DC converter,Silicon cloth,Instruction manual

#### OPTIONAL ACCESSORIES

Diagonal eyepiece 13, Trough compass 5, Battery Pack BT-35, Battery Charger BC-26B/C, Power Cable PC-16

Designs and specifications herein are subject to change without notice.

important In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

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