TP-L5 series



635nm (Red)

80 hours (approx.)

(with 4 x size D Alkaline batteries)

55 hours (approx.)

TP-L5B

TP-L5AV

 $5\sim150 \mathrm{m}$

SPECIFICATIONS

TP-L5G

520nm (Green)

55 hours (approx.)

(with 4 x size D Alkaline batteries)

40 hours (approx.)

Operating

distance

Control

functions

 $\rm 5 \sim 150 m$

TP-L5BG

Visible laser diode

4.5mW

Class 3R

φ 12mm

-15 to 40% (-150 to +400 %) 0.001% (0.01‰)

Absolute encoder

17° (approx.)

±10%

±4°(approx.)

±10"

-20°C to +50°C

IPX8 (IEC 60529:2001)

φ 125 x 374mm

3.8kg (including BT-53Q)

Remote Controller, RC-200

200m (from front side of TP-L5)

25m (from upper side of TP-L5)

beam ON/OFF, Line centering

Automatic alignment mode (TP-L5GV/L5G/

L5AV), Line control, Laser beam mode, Laser

about 8 months (with Alkaline dry batteries)

about 4 months (with Manganese dry batteries)

TP-L5GV



Standard Components
• Pipe Laser TP-L51pc.
Remote controller RC-2001pc.
• Battery BT-53Q (rechargeable battery) 1pc.
AC/DC Converter AD-13 1pc.
Battery adapter BA-2 1pc.
Self-centering Feet
ø150mm 4pcs.
ø200mm 4pcs.
ø250mm 4pcs.
ø300mm 4pcs.
Single point foot model 2 1pc.
• Target1set
• AAA Manganese battery*1 4pcs.
 Power cable for 12VDC PC-174pcs.
Carrying case 1pc.
Instruction manual 1vol
*1) Batteries included in the package are to confirm the initial operation. Please replace the batteries provided with new batteries (alkaline) as soon as possible.

Optional Accessories



Trivet Stand Kit Components

- Trivet stand model 3
- Trivet handle model 2 (with Carrying Case)



TOPCON

TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan Phone: (+81)3-3558-2993 Fax: (+81)3-3960-4214 www.topcon.co.jp

©2015 Topcon Corporation All rights reserved. P-198-1



• Trivet stand kit 3



Laser Light source

Wave length

Laser class Laser beam diameter

Grade Setting Grade setting range

Line control range

Axis direction range

Horizontal accuracy

with Rechargeable batteries

Operating temperature

Up/Lower Laser beam

Water resistance

Dimensions

Light source

Wave length

Output Power

Vertical accuracy

Compensating range

Weight

Operating time with Dry batteries

Auto Alignment Alignment distance

Self leveling Slope direction range

Laser power output

Minimum setting of grade Grade setting method







Power source Four AAA size dry batteries





Tripod adapter model 3
 Extension leg (φ200mm)
 Dry battery holder DB-53
 AC/DC converter AD-13

TP-L5GV/AV

Visible laser diode

0.9mW (Max.)

Grade setting direction approx. ±4° Rotating direction approx. ±2°

> Upper beam ±1.5' Lower beam ±3.5'

- Target (Large)
- Scope model 2
- Power cable for 12VDC PC-17
- · Over the top target





- Specifications subject to change without notice.

Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Topcon is under license.

Your local Authorized Topcon dealer is:

TP-L5 series



TP-L5 series





New Green Laser with superior visibility and 4 times longer life

- Equipped with Up/Down beam. No Plumb bob needed.
- Auto alignment function to align to the center of target
- IPX8 water protection for any harsh site condition
- · Compact carrying case for convenient portability
- 20% longer operating time

Ultra visible Green Laser equipped!

Automatic alignment function for easy and secure alignment setting

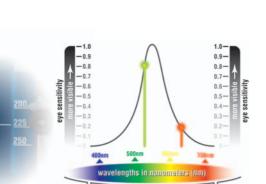


Greatly improves efficiency of sewerage pipe laying works

TP-L5 enables easily determining position, direction and grade of sewerage pipe, eliminating needs to install batter board and string line.

Green Laser with high brightness, visibility and longer life

Topcon has incorporated green laser on pipe laser instruments to Utilize its high brightness and visibility for the human eye. TP-L5 employees a new green laser unit which provides superior Visibility and having 4 times longer life.



	Green Laser	Up/Lower Laser	Centerline LED	Auto Alignment
TP-L5GV	0	0		0
TP-L5G	0		0	0
TP-L5BG	0		0	
TP-L5AV		0		0
TP-L5B			0	



Automatic Alignment system (TP-L5GV/L5G/L5AV)

Enables to automatically make an accurate alignment to the center of target plate located at the other end of the pipe, with one touch of button. This eliminates inconvenient adjustment operation in the limited space and results accurate alignment.



3 way Laser Beam (TP-L5GV/L5AV)

In addition to the main laser beam for grading, Up/Down plumb beams can be emitted. This enables accurate instrument set up over /under the center mark without using inconvenient plumb bob.



3 way for Power Management

Rechargeable Ni-MH battery pack with run-charge with AC power and Optional dry battery holder provide flexible power management to avoid interruption of the work.

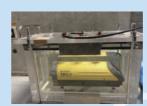


RC-200 Remote Controller

The controller comes with the TP-L5 as standard accessory, which can be used for remotely adjusting alignment beam at the other end of the pipe, and/or to avoid touching and moving TP-L5 in case it should stay at the same position.

TP-L5 series

The Highest Durability and Quality! Tested through severe environmental tests simulating harsh site conditions.



Water Resistance

Tested by being submerged 24 hours at 5m under water, which far exceeds IPX8 conditions.

It can endure even being submerged by a sudden heavy rain.



Croon Laco

Using a semiconductor green laser with 4 times extended operation life.



Impact Resistance

Tested by dropping from 50cm height to a concrete floor within carrying case.

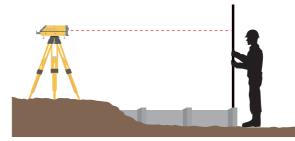
The instrument is well protected even for unexpected drop down at bad footing place.



Highly accurate slope settings

Hired an absolute angle encoder system equivalent to the one on total station to set accurate slope angles with high repeatability.

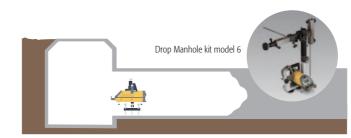




Over the top

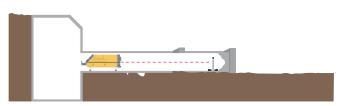
Mount TP-L5 on top a tripod using Tripod Adapter(*1)

To set up in correct direction, the L-Type Scope (*1) can be used for sighting staff or stake at the other end of pipes.



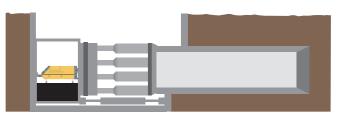
for Pipes with Medium or Large diameters

Using the optional Trivet Stand, TP-L5 can be located at the center of Medium to Large pipes. For pipes with even larger diameter, the optional Drop Manhole Kit type-6 is also available.



for Pipes with small diameter

The TP-L5 can be directly inserted inside of pipe with 150mm internal diameter. Depends on the diameter of the pipe, change 4 legs for 200, 250 or 300mm diameter. TP-L5 can be installed at the center of the pipe. (Optional Extension legs for adding 200mm length are also available)



For Pipe Jacking method/Shield method

TP-L5 can be used also for the Pipe Jacking method. Setting up the TP-L5 in the vertical shaft for machine departure and fix a target plate at the cutting head, displacement of driving direction and grade can be checked an fed back to control of the machine.

*1: optional accessory