TP-L5 series





Standard Components

• Pipe Laser TP-L51p	oc.
Remote controller RC-2001p	pc.
• Battery BT-53Q (rechargeable battery) 1p	pc.
Self-centering meter ø200mm 4p	ocs
• AC/DC Converter AD-13 1p	рс
Battery adapter BA-21	рс
• Target 15	
• AAA Manganese battery*1 4p	рс
Carrying case	
• Instruction manual 1v	VO
*1) Batteries included in the package are to confirm the initial operation.	

Optional Accessories



Trivet Stand Kit Components

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

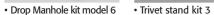
SPECIFICATIONS

	TP-L5G	TP-L5BG	TP-L5A	TP-L5B
Laser				
Light source	Visible laser diode			
Wave length	520nm (Green)		635nm (Red)	
Laser power output	4.5mW			
Laser class	Class 3R			
Laser beam diameter	φ 12mm			
Grade Setting				
Grade setting range	-15 to 40% (-150 to +400 %)			
Minimum setting of grade	0.001% (0.01‰)			
Grade setting method	Absolute encoder			
Line control range	16° (approx.)			
Auto Alignment				
Alignment distance	5 ~ 150m	_	5 ~ 150m	_
Self leveling				
Slope direction range		±1	0%	
Axis direction range	±4°(approx.)			
Horizontal accuracy	±10″			
Operating time				
with Dry batteries	55 hours (approx.)		80 hours (approx.)	
	(with 4 x size D Alkaline batteries)		(with 4 x size D Alkaline batteries)	
with Rechargeable batteries	40 hours (approx.)		55 hours (approx.)	
Operating temperature	-20°C to +50°C			
Water resistance	IPX8 (IEC 60529:2001)			
Dimensions	φ 125 x 374mm			
Weight	3.8kg (including BT-53Q)			

Remote Controller, RC-200

Operating distance	200m (from front side of TP-L5)		
	25m (from upper side of TP-L5)		
Control functions	Automatic alignment mode (TP-L5G/L5A), Line control, Laser beam		
	mode, Laser beam ON/OFF, Line centering		
Power source	Four AAA size dry batteries		
Operating time	about 8 months (with Alkaline dry batteries) about 4 months (with		
	Manganese dry batteries)		















• Tripod adapter model 3 • Extension leg (\$\phi\$200mm) • Dry battery holder DB-53 • AC/DC converter AD-13

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







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TP-L5 series



TP-L5 series





New Green Laser with superior visibility and 4 times longer life

- 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

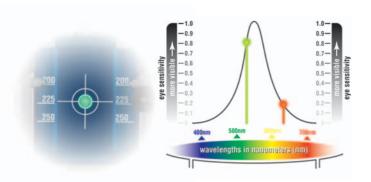


Greatly improves efficiency of sewerage pipe laying works

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	Centerline LED	Auto Alignment
TP-L5G	0	0	0
TP-L5BG	0	0	
TP-L5AV		0	0
TP-L5B		0	



Automatic Alignment system (TP-L5G)

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.



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.



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.



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

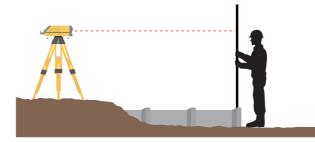
The instrument is well protected even for unexpected drop down at bad footing place.



Highly accurate slope settings

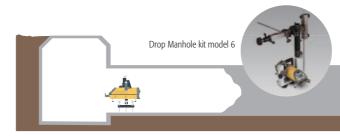
Hired an absolute angle encoder system equivalent to the one on total station to set accurate slope angles with high repeatability.





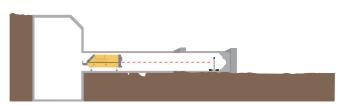
Over the top

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.



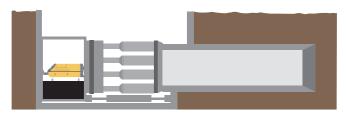
for Pipes with Medium or Large diameters

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