



**TP-L4**

**PIPE LASER**

## Pipe Laser Series TP-L4



### The fastest, most accurate way to get from here to there...

A combination of features and technology that meet the demands of utility contractors better than any other pipe laser available. That's what Topcon provides with the TP-L4 Series.

#### A super-bright beam:

TP-L4's patented Green Beam® technology provides the brightest beam available by law. It's easily seen even in bright sunlight.

#### An easy-to-see display:

The large, backlit LCD is sloped so you can easily see the panel without climbing into the manhole or trench. Safer, faster and better.

#### Functional accessibility anywhere:

The RC-200 remote puts all of the features at your fingertips whether you're at the laser or up to 150m away.

### Tough and reliable:

A pipe laser has to meet the demands of tough jobsite conditions, and Topcon's TP-L4 is the toughest. An all cast aluminium housing that's sealed to keep out moisture, even when submerged. It will survive, even in the harshest environments. Add to these strength things like patented auto-alignment, the World's most accurate grade mechanism, power options that let you keep working when other lasers stop and a full line of pipe lasers let you decide what fits your job and your budget. So what's the fastest way to get from here to there? Start by calling your nearest Topcon dealer.

## All the innovations to help you every step in between



### Accuracy

Precision grade setting for peak production:

- World's most accurate levelling and grade system.
- Survey accurate electronic encoder superior at any grade.
- Reduces rework



### Versatility

World's only Centreline indication

- Super-bright LED plumb
- Simplifies and shortens over-the-top set-ups
- Quick and accurate micro-tunneling set-up



### Accessibility

RC-200 infrared remote

- Allows remote control of all line and control functions including SmartLine® auto-alignment
- Laser "standby" for battery conservation
- Beam mode for control of beam brightness
- Auto-centring
- Grade match for fast referencing and grade matching



### Longevity

Topcon's TP-L4 is a survivor

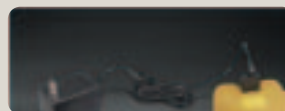
- All cast-aluminium housing
- Double-sealed, rugged interface stands up to repeated use
- Waterproof to at least 5 meters (16.5 feet)
- Industry leading warranty



### Adaptability

Wide array of power management choices

- Rechargeable battery pack. No cables to rip or snap.
- Convenient six-hour quick charge feature
- 12Vdc connection powers the TP-L4 and recharges the batteries at the same time
- Alkaline battery pack option



## More Advanced Features ...



- 1 Removable handle makes unit easy to fit into tight inverts.
- 2 Two grade entry methods to fit user preferences, plus automatic 0% grade return for quick set-up changes.
- 3 Left/Right line control and automatic centre of range return.
- 4 Beam Mode matches beam intensity to ambient light for effective power management (TP-L4G, A models).
- 5 Lock Grade and line settings for undisturbed operation.
- 6 Top-loading battery pack to replace batteries without disturbing the laser.
- 7 Visible plummet LED's.
- 8 Stringline attachment for quick alignment.
- 9 Rubber bumper/stand protects lens from falls and enables one man to lower unit in to trench or manhole.
- 10 SmartLine® automatic alignment (TP-L4G, A models).
- 11 Rugged cast aluminium, waterproof housing for tough in-the-trench conditions.
- 12 Large illuminated LCD display makes levelling, grade, line, battery, and beam mode information easy to see and use.

## Features

### GreenBeam®

Topcon's innovative Green Beam® technology gives you the advantage of a beam that's four times brighter than conventional beams. That means you never lose track of it - even in direct sunlight! With the TP-L4G Green Beam® set-ups are faster and easier than ever before.

### SmartLine®

The TP-L4A and G also has SmartLine® for fast, simple alignment. Just set the target at the far end of the last section of pipe and push the alignment button on the RC-200 remote. The beam automatically centres on the target for perfect alignment every time. You can even use SmartLine® for quick above ground set-ups!

### Rugged waterproof cast aluminium construction

Durability has been proven with it's die cast aluminium housing previous used with the TP-L3 models and can stand up to the harshest trench conditions.

### TOPCON'S power management

Operating time ranges from 32hrs with NiMh batteries for the green beam pipe lasers up to 70hrs with alkaline batteries for the red beam pipe laser. The easy "top loading" NiMh battery pack which allows replacing the battery without disturbing the set up. And in case you forgot to charge, just connect it to 12V external and charge the unit while you work! Or just use alkaline batteries, there are no limitations!



## Infrared Remote Control



### The Standard RC-200 Infrared Remote

Permits all TP-L4 line control functions:

- SmartLine® auto-alignment
- Laser "standby" to save battery power.
- Beam Mode to precisely manage brightness
- Auto-Centring
- Grade Match for quick grade reference and elevation matching

## Topcon's TP-L4 line-up

### TP-L4A / TP-L4B / TP-L4G / TP-L4BG

The TP-L4 is packed with the following features:

- TOPCON'S SmartLine®
- Auto Alignment function (TP-L4G and A)
- Easy input of grade -15% ~ +40% SmartGrade™
- The RC-200 infra red remote control for complete control of all TP-L4 functions from up to 200 meters away
- Industry's brightest LED line pivot locator
- Bright easy-to-read rear display with the possibility to enter company name and security code.

And of course we deliver all possible power options in our TP-L4.



Unbeatable visibility, patented scanning technology, simple operation. Once you see it, the TP-L4G will be the only pipe laser you'll use. If you haven't had the chance to see a live demonstration of the TP-L4G, we recommend that you do before you buy your next pipe laser. You have to see to believe what Topcon's advanced technology can do for you.



### The TP-L4 Package Includes:

- Rechargeable NiMH Battery Pack, BT-53Q
- Power supply, AD-7C with BA-2 adaptor
- RC-200 Remote Control
- 200mm (8") Leg Set
- Hard Shell Carrying Case
- Small Target with Holder

### Optional accessories are:

- RC-17, car battery cable
- Leg set 150 mm (6"), 250 mm (10") or 300mm (12")
- DB-53, dry battery holder



**SPECIFICATIONS**

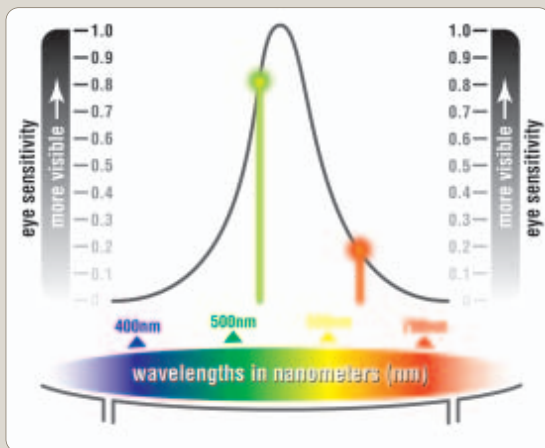
MODEL NAME	TP-L4A	TP-L4B	TP-L4G	TP-L4BG
<b>Laser Source:</b>	633nm Diode	633nm Diode	532nm Diode	532nm Diode
<b>Beam Color:</b>	Red	Red	Green	Green
<b>SmartLine®:</b>	Yes	No	Yes	No
<b>SmartLine® Operating Range:</b>	150m (500ft.)	N/A	150m (500ft.)	N/A
<b>Auto Line Centering:</b>	Yes			
<b>Auto Grade Zeroing:</b>	Yes			
<b>Plumb Reference:</b>	LED			
<b>Grade Range:</b>	-15% to +40%			
<b>Line Range:</b>	± 15%			
<b>Horizontal Accuracy:</b>	± 10"			
<b>Battery Life:</b>				
Rechargeable	48 hrs.	48 hrs.	32 hrs.	32 hrs.
Alkaline	70hrs.	70 hrs.	45 hrs.	45 hrs.
<b>Housing Construction:</b>	Cast Aluminum			
<b>Waterproof Depth:</b>	At least 5m (16.5ft.) for 24 hrs.			
<b>Operating Temperature:</b>	-20°C to +50°C (-4°F to +122°F)			

**RC-200 Remote Control (Infrared)**

Operating Range from TP-L4 Front : 200 m (660 ft)  
 Operating Range from TP-L4 Rear : 45 m (150 ft)  
 Battery Life : Approximately 2 Years

\* 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.

**Why green!**



The visibility of a Topcon Green Beam is four times greater than conventional red beams and its spot quality is vastly superior to any red beam laser diode instrument. What does the added visibility mean to you? A visible beam is all you have, the easier you can see it, the quicker and more accurate you will work, the higher will be your productivity.

But four times more visible? How can that be? Here's how. The human eye only sees light that has a wavelength in the visible spectrum. The human eye can see light that falls between approximately 385 nm and 725 nm.

If you check the specifications of most red beam interior lasers you'll see that the beam wavelength averages 633 nm. The Topcon Green Beam has a wavelength of 532 nm. The color green occupies that segment of the spectrum that's 4.3 times better visible

## Topcon International



### More than 70 years of experience

For 70 years, Topcon has been a leading manufacturer in industrial, medical and positioning enhancement tools. This broad experience has created a basis for Topcon's wide product line for basically every positioning need, whether it's for construction or surveying applications. For the construction industry, Topcon offers a complete range of innovative laser and sonic solutions, including industry leading products for interior, utility, general construction and machine control applications. For surveying applications, Topcon manufactures and supplies a complete range of optical measuring products, from digital and optical levels to theodolites and robotic total stations, and a full line of GPS+ satellite positioning solutions.

#### Product & Service support

To assure that your Topcon product maintains peak performance, your local Topcon dealer offers factory trained certified service technicians. And just in case service assistance isn't available in your area, our Europe wide network of Topcon offices, offer repair and return service policies second to none.

#### Innovation, not imitation

During the last decades, Topcon has brought many innovative solutions to the industry, that offer the contractor significant productivity increase and greater ease of use. That's the key to leadership, and the reason Topcon is the world's leading supplier of laser and surveying instruments. Some examples of unique Topcon technologies:

- Waterproof auto level
- The integrated total station, "The Guppy"
- The compact coaxial total station (GTS-1)
- World's First laser with beam scanning technology
- The first waterproof total station
- GreenBeam® visible construction lasers
- Automatic excavator control system
- World's First 3-D machine control (3D- MC™ LPS)
- 5" Grade laser with automatic alignment & remote control
- Horizontal self leveling laser with liquid compensator
- First robotic total station with instant beam lock system (GTS-800A and RC-2)
- First satellite-directed automatic 3D machine control system (3D-MC™ GPS)



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