

TOPCON

Construction

Product Guide



INTRODUCTION



Topcon laser tools are designed to provide professional contractors reliable layout reference for increased jobsite productivity and profit. Please read the Topcon operating manual for instructions on how to optimise the use of your instrument and how to verify calibration on a Topcon laser.

Purchasing from an Authorised Australian Reseller

For customers in Australia, Topcon strongly recommends purchase of a Topcon laser from an Authorised Australian Reseller. Topcon cautions all customers not to expect a laser purchased outside Australia to be covered under warranty by an Australian reseller. No Topcon reseller is obligated to service a Topcon laser under warranty if purchased outside their own country.

Servicing your Topcon laser

Topcon recommends that customers get a 12 month service and calibration for Topcon lasers to ensure that the instrument is working at optimal accuracy.

To arrange for your instrument to be serviced and calibrated, please contact your nearest Authorised Australian Reseller or call 1300 96 LASER. To find your closest reseller, visit topconlaser.com.au/where-to-buy

Warranty

Topcon offers a five-year limited warranty from the date of purchase for new laser tools and auto levels. For Topcon theodolites, warranty is two years from date of purchase and one year from date of purchase for machine-mount receivers and handheld receivers. Warranty is valid from date of sale to the original end user.

Topcon offers a one-year warranty on handheld receivers, remote control, rechargeable batteries, AC chargers and holder/brackets.

Warranty does not cover damage from the tool being dropped or abused. See the operating manual for additional terms & conditions. Please ensure you keep a copy of your receipt and / or proof of purchase to assist with any warranty claims.



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SCAN ME TO
ACTIVATE
WARRANTY

Register your product online!

topconlaser.com.au/activate-warranty

- ➔ Keep track of the warranty of your Topcon product
- ➔ Keep up-to-date with the latest product releases
- ➔ Receive service & calibration reminders

Topcon RL-H5B

Dry Battery Standard

CODE: 1021200-71



Dry Battery Premium

CODE: 1021200-34



Meet the RL-H5A's Little Brother

Topcon RL-H5B is the perfect laser for all your horizontal general construction applications, hit the power button and get to work in seconds!

Attach the laser receiver to a staff and you have fast, accurate elevation checking. RL-H5B, the new standard in affordable construction laser versatility!

IDEAL FOR

- ✓ Site preparation
- ✓ Earthworks
- ✓ Concrete
- ✓ Drainage

1. GENERAL CONSTRUCTION

Features:

- Long-range operation (400m)
- Construction tough build with dual handles and IP66 water-resistant housing
- LS-80X long-distance laser receiver
- Automatic self-levelling $\pm 5^\circ$
- 100 hrs. operating time with D Cell Battery option
- Horizontal only rotating laser
- 5-year Topcon warranty

- Premium Option with LS-100D digital receiver



| SPECIFICATIONS: | |
|------------------------------------|--|
| Accuracy | ± 3 mm at 30 m (± 20 arc seconds) |
| Self-levelling range | $\pm 5^\circ$ |
| Operating range | 200 m radius/ 400 m diameter |
| Rotation speed (r.p.m.) | 600 r.p.m. |
| Light source | Visible laser |
| Laser power | Less than 5mW |
| Laser class | 2 |
| Water proof/ dust-resistant | IP66 |
| Operating time | 100 hrs. with D cell batteries |
| Operating temperature | $-20^\circ\text{C} + 50^\circ\text{C}$ |
| Size | 205 (L) x 211 (W) x 172 (H) |



Topcon RL-H5A

Dry Battery Standard

CODE: 1021200-45



Dry Battery Premium

CODE: 1021200-17



Rechargeable Battery Standard

CODE: 1021200-46



Rechargeable Battery Premium

CODE: 1021200-10



Australia's Best Construction laser is now even BETTER!

Topcon's RL-H5A Self levelling laser delivers longer range (800m), higher accuracy

(± 1.5 mm @ 30 m) and is simple to use for checking elevations.

- ✓ Site preparation
- ✓ Earthworks
- ✓ Concrete
- ✓ Carpentry
- ✓ Drainage
- ✓ Site set-out

1. GENERAL CONSTRUCTION

Features:

- Long-range operation (800m)
- Simple, intuitive manual slope capability
- Construction tough build with dual handles and IP66 water-resistant housing
- LS-80X long-distance laser receiver
- 100 hrs. operating time with D Cell Battery option, or 60 hrs. with rechargeable Ni-MH batteries
- Automatic height of instrument alert (elevation alert)
- 5-year Topcon warranty

- Premium Option with LS-100D digital receiver



| SPECIFICATIONS: | |
|------------------------------------|---|
| Horizontal accuracy | ± 1.5 mm at 30 m (± 10 arc seconds) |
| Self-levelling range | ±5° |
| Operating range | 400 m radius/ 800 m diameter |
| Rotation speed (r.p.m.) | 600 r.p.m. |
| Light source | Visible laser |
| Laser power | Less than 5mW |
| Laser class | 3R |
| Water proof/ dust-resistant | IP66 |
| Operating time | 100 hrs. with D cell batteries, 60 hrs. with Ni-MH battery option |
| Operating temperature | -20°C + 50°C |
| Size | 205 (L) x 211 (W) x 172 (H) |
| Slope-manual one axis | up to ±5° |

Topcon AT-B Series

AT-B2 CODE: 2110220B0
32 x Magnification



AT-B4A CODE: 1012379-53
24 x Magnification



AT-B3A CODE: 1012379-03
28 x Magnification



Durable, Dependable, High Value Auto Level

Utilising a finely tuned magnetic damping system, AT-B Series automatic levels quickly level and stabilise the line of sight. These precision instruments ensure reliable levelling even when working near heavy equipment or busy roads where fine vibrations could be present.

- ✓ Site preparation
- ✓ Concrete
- ✓ Site set-out
- ✓ Earthworks
- ✓ Drainage

2. AUTO-LEVELS

Features:

- Choice of 3 models – 32x, 28x and 24x magnifications
- Rapid, accurate and stable automatic compensation
- Ultra-short 20 cm focussing
- All-weather dependable
- Clampless, endless fine horizontal adjustments
- 5-year Topcon warranty



SPECIFICATIONS:

| | AT-B2 | AT-B3A | AT-B4A |
|-------------------------------------|----------------|----------------|----------------|
| Length | 215 mm | 215 mm | 215 mm |
| Magnification | 32X | 28X | 24X |
| Objective aperture | 42 mm | 36 mm | 32 mm |
| Resolving power | 3 in. | 3.5 in. | 4 in. |
| Field of view (at 100 m) | 1°20' 2.3 m | 1°25' 2.5 m | 1°25' 2.5 m |
| Focussing knob | 2-speed | 1-speed | 1-speed |
| Sighting aid | Peep Sight | Gun Sight | Gun Sight |
| Accuracy for 1 km double run | ±0.7 mm | ±1.5 mm | ±2.0 mm |
| Accuracy with micrometre | ±0.5 mm | n/a | n/a |
| Circular level sensitivity | 2 mm | 2 mm | 2 mm |
| Horizontal circle diameter | 103 mm | 103 mm | 103 mm |



Topcon RL-HV1S Single Grade Laser

Topcon's RL-HV1S multipurpose single grade laser sets the new standard for simplicity and accuracy. Simple to use for checking elevation and single grade applications.



Works with Laser Manager App

Dry Battery Standard

CODE: 1051612-08



Rechargeable Battery Premium

CODE: 1051612-09



IDEAL FOR

- ✓ Site preparation
- ✓ Earthworks
- ✓ Concrete
- ✓ Carpentry
- ✓ Drainage
- ✓ Site set-out

3. GRADE LASERS

Features:

- Long-range operation (800m)
- Fully automatic and accurate at grade with temperature compensation
- Construction tough build with dual handles and IP66 water-resistant housing
- Automatic height of instrument alert (elevation alert)
- LS-80X long-distance laser receiver
- RC-50 remote control included
- Dial in automatic grade compensation
- 5-year Topcon warranty
- Made in Japan

- Premium Option with LS-100D digital receiver



SPECIFICATIONS:

| | |
|---|---|
| Vertical and horizontal accuracy | ± 1.5 mm @ 30 m (± 10 arc seconds) |
| Operating range | 400 m radius/ 800 m diameter |
| Operating time | 120 hrs. with D cell batteries, 65 hrs. with Ni-MH battery option |
| Grade | ± 15% (laser requires tilting over 8%) |
| Rotation speed | 300/600 r.p.m |
| Water resistance | IP66 |
| Self-levelling range | ±5° |
| Laser class | 1 |
| Output power | Less than 5mW |



Topcon RL-HV2S Dual Grade Laser

Topcon's RL-SV2S multi-purpose grade laser sets the new standard for simplicity and accuracy. Rugged and compact, it's twice the laser at an amazingly affordable price.



Works with Laser Manager App

Dry Battery Standard

CODE: 1051612-01



Rechargeable Battery Premium

CODE: 1051612-02



IDEAL FOR

- ✓ Site preparation
- ✓ Concrete
- ✓ Drainage
- ✓ Earthworks
- ✓ Carpentry
- ✓ Site set-out

3. GRADE LASERS

Features:

- Fully automatic & accurate dial in grade laser with temperature compensation
- Vertical alignment function
- Electronic beam masking (to avoid interference with other lasers on site)
- Construction tough build with dual handles and IP66 water-resistant housing
- Automatic height of instrument alert (elevation alert)
- LS-80X long-distance laser receiver
- Dial in automatic grade compensation
- 5-year Topcon warranty
- Made in Japan

- Premium Option with LS-100D digital receiver



SPECIFICATIONS:

| | |
|---|---|
| vertical and horizontal accuracy | ± 1.5 mm @ 30 m (± 10 arc seconds) |
| Operating range | 400 m radius/ 800 m diameter |
| Operating time | 120 hrs. with D cell batteries, 65 hrs. with Ni-MH battery option |
| Grade | ± 15% (laser requires tilting over 8%) |
| Rotation speed | 300/600 r.p.m |
| Water resistance | IP66 |
| Self-levelling range | ±5° |
| Laser class | 1 |
| Output power | Less than 5mW |



Topcon RL-200 Series

Precision grade lasers available in single or dual slope. Advanced functionality, reliability and accuracy, the Topcon RL-200 series of grade lasers are trusted by contractors around the world for earthmoving and grade control applications.



Topcon RL-200 2S Dual Grade Laser Standard

CODE: 314920853



Topcon RL-200 2S Dual Grade Laser Premium

CODE: 314920712



- ✓ Site preparation
- ✓ Earthworks
- ✓ Concrete
- ✓ Drainage

3. GRADE LASERS

With exceptional slope range and a large, easy to use screen and user interface, Topcon's RL-200 series combines advanced technology with simple, robust design. Choose from two models, the RL-200 1S single grade, or RL-200 2S dual grade. The RL-200 1S provides single grades from -5% up to +25%.

The RL-200 2S provides dual grades up to +/- 10% in the X axis, or up to an industry leading -5% to +25% in the Y axis. The 2S model also comes with a full-function remote, for complete control of the laser from up to 200 m away.

Features:

- ➔ Self-Levelling
 - ➔ Electronic beam masking
 - ➔ Automatic height of instrument alert (elevation alert)
 - ➔ 5-year Topcon warranty
 - ➔ Made in Japan
-
- ➔ Premium Option with LS-100D digital receiver



SPECIFICATIONS:

| | |
|--|--|
| Horizontal accuracy | +/- 7 arc seconds |
| Operating range | 1100m diameter |
| Operating time | 100 hrs. with D cell batteries 90 hrs with Ni-Mh battery option |
| Grade (single/dual) | RL-200 2S: +/-10 / -5 to +25 |
| Rotation speed | 300/600/900 rpm |
| Waterproof / Dust Resistance Rating | IP66 |
| Output Power | less than 5mW |
| Laser Class | 3R |

TP-L6 Pipe Laser Series

Topcon TP-L6WB Red Beam Pipe Laser

CODE: 1034437-10



Topcon TP-L6WBG Green Beam Pipe Laser

CODE: 1034437-11



Works with Laser
Manager App

Topcon's TP-L6 Series Pipe Lasers offer a combination of features and technology that are proven to meet the demands of contractors more than any other alignment lasers on the market.

With a new compact design the Topcon TP-L6 can be used in even the tightest of pits. Available in economical red beam or high visibility green beam, the new Topcon pipe lasers come with better than ever battery life to keep you working.

IDEAL FOR

✓ Drainage

✓ Plumbing

4. PIPE LASERS

Features:

- ➔ Up to 60 hour battery life
- ➔ High contrast, easy-to-read display
- ➔ Topcon 'Laser Manager' mobile app for Android puts many of the most common pipe laser functions directly in your hand
- ➔ All-metal, waterproof housing
- ➔ 5-year Topcon warranty
- ➔ Made in Japan



Trivet Stand and Handle

CODE: 1036382-01

CODE: 329360000



SPECIFICATIONS:

| | TP-L6WB | TP-L6WBG |
|-------------------------------------|--|--|
| Accuracy | ± 1.5 mm at 30 m (± 10 arc seconds) | ± 1.5 mm at 30 m (± 10 arc seconds) |
| Laser wave length/ Beam type | 635 nanometres, red beam diode | 520 nanometres, GreenBeam® diode |
| Operating range | | |
| Grade range | -15% to +40% | -15% to +40% |
| Remote control operation | 200m from front (in pipe), 25m from above operation | 200m from front (in pipe), 25m from above operation |
| Line control width | ±15% | ±15% |
| Self levelling range | ±10% | ±10% |
| Waterproof Rating | IPX8 | IPX8 |
| Power | 60 Hours with Topcon BDC72 li-ion battery | 40 Hours with Topcon BDC72 li-ion battery |

Magnetic-Mount Receivers

The Topcon LS-B10 Series offer a cost effective indicate laser solution, designed with two purposes in mind: to help move dirt efficiently and grow with the evolving needs of your company.



These versatile receivers can be mounted on a range of machines such as mini excavators, and are useful for grade checking applications where they can be mounted to a staff via a Holder 6. The LS-B10W model has a wireless option, enabling it to be connected to a RD-100W (Remote Display Unit) which can be mounted in the cab allowing the operator to view the same information that is displayed out on the excavator stick.

Topcon LS-B10

CODE: 312660101



- ✓ Site preparation
- ✓ Drainage
- ✓ Earthworks

5. 2D MACHINE CONTROL

Kit includes:

- LS-B10
- 3 x AA Alkaline Batteries

Features:

- Made in Japan
- 1-year Topcon Warranty



| Specifications: | LS-B10 |
|---|--|
| Detective range | 120 mm |
| Detective angle | 270° |
| Detective precision | Mode1: ± 2 mm Mode2: ± 6 mm Mode3: ± 12 mm Mode4: ± 30 mm |
| Laser detecting range (Diameter) | 700m |

Magnetic-Mount Receivers

Features:

- Large working range
- 360° detection
- Rugged, waterproof design
- Indicate and automatic solutions
- Wireless & CAN compatible (* W-models)
- On-grade matching
- Plumb/Tilt Indication (110 models only)
- Universal pole clamp
- Made in Japan
- 1-year Topcon Warranty



Topcon LS-B200

CODE: 1053268-03



Remote Display Function App Purchase - 200W only



LS-B200W CODE: 1053268-04
Automatic Hydraulic
Compatible, Plumb & Tilt
Indication, Wireless Compatible



As shown with optional
Magnetic Pole Mount
CODE: 9090-1601



5. 2D MACHINE CONTROL

| Specifications | LS-B200 | LS-B200W |
|---|---------------|---------------|
| Detector angle | 360° | 360° |
| Detector range | 175 mm | 250 mm |
| Detectable laser wave length | 633 to 785 nm | 633 to 785 nm |
| Detective precision | | |
| Mode1: | ±3 mm | ±3 mm |
| Mode2: | ±6 mm | ±6 mm |
| Mode3: | ±15 mm | ±15 mm |
| Mode4: | ±30 mm | ±30 mm |
| Laser detecting range (diameter) using RL-200 1S/2S | 800 m | 800 m |
| Machine control hydraulic compatible | No | Yes |
| Plumb and slope indicator | No | Yes |
| Optional remote display with laser manager app via bluetooth | No | Yes |
| Wireless communication laser manager app | No | 20 m |
| Operating time approx - alkaline | 100 hrs. | 80 hrs. |
| Operating time approx - rechargeable (BT-83Q kit optional) | 50 hrs. | 40 hrs. |
| Power from machine (PC-18 cable optional) | Yes | Yes* |
| Power save and laser-on power save functions | Yes | Yes |
| Auto shutoff after 60 minutes | Yes | Yes |
| Waterproof | IP66 | IP66 |

Topcon DT-300 Series

DT-309

CODE: 1034419-08



Waterproof, Dustproof Digital Theodolites

The DT-300 Series integrates the same high-quality advanced absolute circle reading technology found in Topcon's high-performance total station products for more accurate field calculations. Available in 5", 7", or 9" angle accuracy, there is a DT-300 theodolite perfect for any job. Compact and lightweight for easy portability, the DT-300 Series provide precise measurement in a functional, hassle-free package.

DT-309 SPECIFICATIONS:

| | |
|-----------------------------------|---|
| Length | 149 mm |
| Objective lens | 45 mm |
| Magnification | 30x power |
| Field of view | 1°30' |
| Resolving power | 2.5 power |
| Minimum focus | 90 cm |
| Stadia ratio | 100 |
| Stadia constant | 0 |
| Sighting collimator | Double |
| Angle Measurement Accuracy | Manual one axis up to ± 9 arc seconds |

Features:

- Long battery life, with up to 300 hours of operation time from BDC71 Li-ion battery or up to 230 hours of operation from 4 AA batteries
- Waterproof and dust-proof housing - IP66
- Gas charged telescope
- Two Year Warranty
- Made in Japan

Kit includes:

- DT-309 Theodolite
- Plumb Bob
- Tool Kit
- Waterproof Protective Cover
- Lint Free Lens Cloth
- Carry Case



- ✓ Site preparation
- ✓ Concrete
- ✓ Drainage
- ✓ Site set-out

6. THEODOLITES

Astor DT-10 Electronic Theodolite

CODE: DT-10



The Astor DT-10 is ideal for building set out and general construction. With its dual face LCD display, the DT-10 is supplied with both Alkaline and Rechargeable battery packs. Featuring 30 x Magnification, this has made the DT-10 a very popular choice for building contractors.



Kit includes:

- Astor DT-10
- Plumb Bob
- Rain Coat
- Operator Manual
- Durable Hard Shell Carry Case

SPECIFICATIONS:

| | |
|----------------------------------|------------------|
| Accuracy | ± 10 arc seconds |
| Objective lens | 45 mm |
| Magnification image erect | 30x |
| Minimum focus | 1.3 m |

IDEAL FOR

- ✓ Site preparation
- ✓ Drainage
- ✓ Concrete
- ✓ Site set-out

Topcon LS-100D Digital Receiver

CODE: 1026030-01



The LS-100D is the latest addition to the Topcon laser receiver range. The LS-100D is designed to make elevation and vertical alignment control faster and easier in any application, with a digital readout of millimetres from grade. The LS-100D is a high precision sensor that can meet the demands of even the toughest job.



Features:

- ➔ 4 accuracy resolutions from $\pm 0.5\text{mm}$ to $\pm 10\text{mm}$
- ➔ 90mm reception height for extra-wide beam capture sensor
- ➔ Hold button for locking display to read elevation results
- ➔ Large & bright LCD displays (front & back)
- ➔ Holder 110 included

IDEAL FOR

- ✓ Site preparation
- ✓ Earthworks
- ✓ Drainage

Holder 110 (Suits LS-100D digital laser receiver)

CODE: 1019505-01



Topcon LS-80X Laser Receiver

CODE: 1046259-01



The LS-80X is the latest product in the Topcon LS-80 platform. The product has new design features that enhance the user experience in the field.

IDEAL FOR

- ✓ Construction

Holder 6 (Suits LS-80X laser receiver)

CODE: 312890112



Features:

- ➔ Loud, low and off speaker levels
- ➔ Dual LCD display on both sides
- ➔ 120h alkaline battery life

7. ACCESSORIES

Yamayo Measuring Tapes

Designed to handle all weather conditions and rough handling on a construction site, Yamayo tapes are made to last.

- Non-conductive fibreglass or Nylon-coated steel
- Open reel
- 3:1 ratio (fast retrieve)
- 30 m, 50 m or 100 m lengths available



50 m Fibreglass

CODE: OTR50X



9 345954 000371



50 m Nylon-coated Steel

CODE: ZNX50M



9 345954 000401

Rotosure Measuring Wheels



The measuring wheel of choice for contractors, Rotosure are tough, accurate and easy to operate

SPECIFICATIONS:

| | | | |
|-------------------------|---|---------------------|---------|
| Folds in half | • | Heavy duty | • |
| Push button zero reset | • | Measuring distance | 10000 m |
| Kick down stand | • | Increments | 0.1 m |
| Carry handle | • | Wheel circumference | 1 m |
| Wrist strap | • | Wheel diameter | 0.32 m |
| Debris removing scraper | • | Weight | 2.36 kg |
| Sealed roller bearings | • | | |



Optional carry bags available.

Rotosure Professional

w/ Trigger Brake and Pistol Grip Zero Reset

CODE: RSCLA-P



9 345954 000449

Aluminium Dome Tripod

CODE: 07-10-DT



Aluminium Flat Tripod

CODE 07-10-FH-P



Elevating Tripod

CODE: 03-10-ETH980



Timber Flat Tripod

CODE: 07-10-TWF



7. ACCESSORIES

BT-79Q NIMH Battery For RL-H5A

CODE: 1025029-01



AD-17D A/C Battery Charger (AU) For RL-H5A

CODE: 1024944-04



DB-79A Battery Holder For RL-H5A

CODE: 1024993-01



Cut / Fill Rod

CODE: 07-10-LP-02



Staff 5 m E Face

CODE: 07-10-55ES



Staff 5 m - 5 mm Face

CODE: 07-10-55HS





Contact Us

For over 20 years Topcon has been leading the laser industry in innovation, reliability and value.

Why consider any other brand?

visit [topconlaser.com.au](https://www.topconlaser.com.au)

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