



RT-5Sa/b

GRADE LASER

Topcon's RT-5S; "Everything you ever asked for"

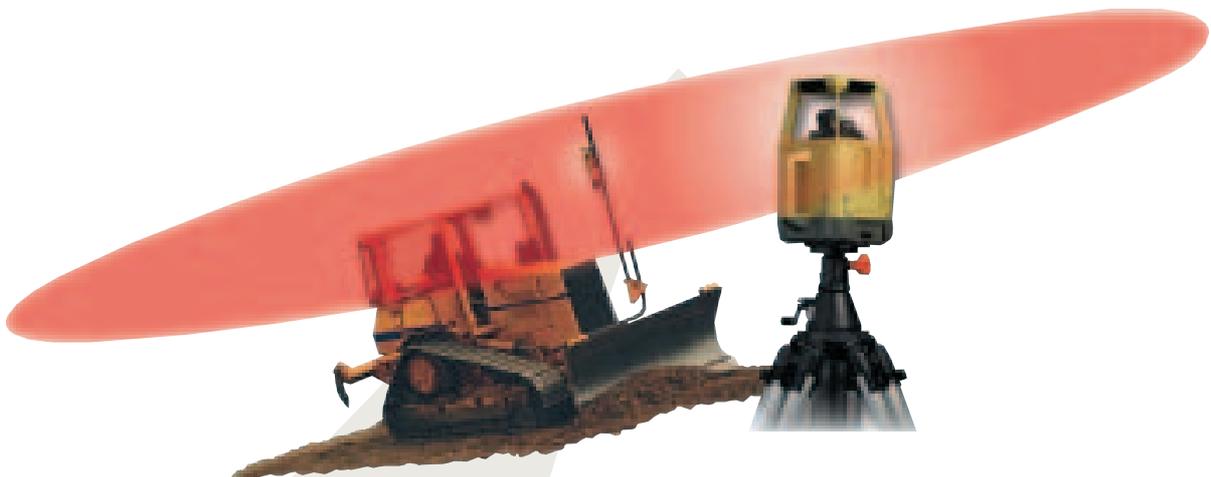
What does it take to make the world's most accurate laser? It takes high accuracy manufacturing. A company that's not reliant on mixing and matching components from third-party vendors. It takes years of experience manufacturing the most advanced levelling system like those found in high accuracy survey equipment. Only Topcon has the

The RT-5S is the most repeatable laser in the world, with a level vial 10 times more repeatable than the competition! In fact, when you use the RT-5S, you're using the same liquid level vial used in Topcon's Total Stations. You're also using world's first technologies like thermal software that's derived from the characteristics of each RT-5S after testing over extreme temperature ranges, and an auto-alignment system so unique, it's patented.

In windy or high vibrations the RT-5S automatically adjusts its fail safe and levelling procedures to maintain an active and stable laser beam.



experience, and only Topcon has the RT-5S laser. Simplicity starts with the RC-300 two-way communicating remote. All features of the RT-5S are accessible. Battery life, rotation speed, and auto-alignment are a few of the time saving features displayed on the large LCD. Slopes up to 50% can also be entered on the RT-5S without tilting the unit. An all metal, dust/waterproof, sealed housing, and a warranty second to none means it'll be there when you're ready to work.



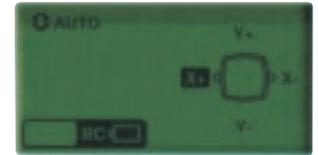
The RT-5S with RC-300 Remote control

The RC-300 features include:

- Two-way communication with the RT-5S
- Backlit LCD display
- Auto display shut-off
- Waterproof, dustproof, and shockproof
- 6-month battery life
- Control of RT-5S functions



Main Screen



SmartLine™ Screen



Masking Screen

- 1 360° of infrared remote reception.
- 2 Heavy duty glass protects "lighthouse", rubber bumpers protect remote.
- 3 Selectable rotation speeds from 300 to 1200 rpm.
- 4 Patented SmartLine™ Auto Alignment system makes second day set-ups easy and accurate.
- 5 Removable SmartRemote™ with large LCD provides full operation of the laser up to 70m away.
- 6 Large grade axis indicators for easy alignment.
- 7 Dustproof and waterproof rugged cast aluminium-housing holds up to everyday bangs and bumps.
- 8 Dual side, sturdy handles prevent accidents.
- 9 Run/charge capability with a converter.
- 10 Battery compartment with secure hold battery tray.



Standard package

Standard Package

- RT-5S instrument
- Rechargeable NiCad battery pack
- Auto-alignment target (RT-5Sa)
- LS-70A Laser receiver with holder
- AD-7C Converter
- RC-300 Remote
- Hard shell carrying case



Topcon's Power Management

- Battery door DB-46C with converter AD-7C
- NiCad battery pack BT-45Q
- 12 vdc connection powers the laser and recharges the battery at the same time
- 4 D-cell alkaline batteries



SPECIFICATIONS

MODEL NAME	RT-5Sa	RT-5Sb	RC-300 Remote	
Laser Source	Visible LD, 680nm	Visible LD, 680nm	Display	High Contrast Graphical with Backlight
Accuracy	±5" (1mm/40m)	±5" (1mm/40m)	Functions	X & Y Grade, Rotation Speed, Sensitivity, Beam Power, Masking, SmartLine™ Auto-Alignment
Working Range	1600m Diameter	1600m Diameter	Range	Two-way Communication 7m / One-way 70m
Laser Power	High 4.5mW Low 1.5mW	High 4.5mW Low 1.5mW	Battery Life	6 Months
Rotation Speed	300, 600, 900, 1200	300, 600, 900, 1200	Auto Shut-Off	Yes
Grade Range	±50% without tilting unit	±10%	Belt Clip	Yes
SmartLine™	Yes	No	Fully water- and dustproof	Yes
Battery Life Alkaline	45 hours	45 hours		
Housing Construction	Cast Aluminium	Cast Aluminium		
Fully water- and dustproof	Yes (IPX6)	Yes (IPX6)		

Designs and specifications here in are subject to change without prior notice.
In order to obtain the best results with this instrument,
please be sure to review all user instructions prior to operation.

The World's First 5" laser

Topcon Corporation is the world's leading manufacturer of high-accuracy survey devices used by engineers all over the world in the most demanding projects. That same precision technology is the heart of the RT-5S.

It combines high-precision self-levelling, grade entry and alignment to create the world's only 5 arc-second laser accuracy; twice the accuracy of any other laser transmitter!



Repeatability is etched in its memory

The combination of an encoder-guided grade system and DLX™ self-levelling makes the RT-5S unmatched in beam repeatability. There are no grade screws and no twin transducers, all of which must return to exactly the same position after any beam shut-off to ensure repeatability. With etched encoder positioning you get the same grade every time. And DLX™ self-levelling works like a magnet, snapping the system back to the true reference every time.



Levelling System

of the accuracy struggle that was left totally up to the user. If he can't precisely align laser to the slope of the field, grade is not accurate. Compounding the problem is the fact that it must be realigned to exactly the same direction each day or dirt that wasn't moved yesterday could be moved today.

With SmartLine™ you just have to position a reflective target on the ground on line with the desired slope and press a button. Using Topcon's patented scanning technology, the RT-5S automatically locates the target, locks on centreline and internally adjusts its grade axis to precisely match. Precise grade alignment every time, everyday in seconds. Only Topcon makes it this simple, this accurate.



Grade System

SmartLine™ automatic alignment

It's really simple if you think about it. And since we did, you don't have to worry with optically aligning a laser transmitter ever again! Until now alignment was the one component

Other innovating solutions bij Topcon



The TP-L4 Series pipe laser with green beam



The LS-B2 receiver; use as indicate or truly proportional automatic



Auto tracking total station GRT-2000 for 3D machine control

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)



TOPCON EUROPE B.V.

Essebaan 11
2908 LJ Capelle a/d IJssel
The Netherlands

Phone: 31-(0)10 - 458 50 77

Fax: 31-(0)10 - 458 50 45

E-mail: laser@topcon.nl

http: www.topconeurope.com

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Certificatie No. 03682548
TOPCON EUROPE B.V.
Capelle a/d IJssel, The Netherlands