

RL-H5A



Standard Kit



RL-H5A + LS80X D Cell Battery Package

- RL-H5A Unit
- Battery Holder DB-79A
- Level Sensor LS-80X
- Level Sensor Holder Type 6
- Carrying Case
- User Manual
- Safety Notice / Standard Kit List



RL-H5A + LS80X Rechargeable Battery Package

- RL-H5A Unit
- Battery Pack BT-79Q (Ni-MH)
- Battery Holder DB-79A
- AC/DC Convertor AD-17C
- Level Sensor LS-80X
- Level Sensor Holder Type 6
- Carrying Case
- User Manual
- Safety Notice / Standard Kit List

SPECIFICATIONS

<b>RL-H5A</b>		
Operating range	Diameter Approx. 2 to 800 m (When using LS-80X)	
Accuracy	±10"	
Self-leveling range:	±5°	
Manual slope settable range	±5° (When the instrument is installed on the 0° surface)	
Laser source:	Laser diode (Visible, 635 nm) CDRH (FDA) Class IIIa, IEC Class 3R	
Rotational speeds	600 r.p.m	
Status alerts	HI and low battery	
Dust and water resistance	IP66 (IEC60529: 2001)	
Operating temperature	-20 to 50°C (-4 to 122°F)	
Size	104(W) x 127(D) x 37(H) mm	
Weight	Dry battery type	2.3 kg (5.1 lbs) (with dry cell batteries)
	Rechargeable battery type	2.5 kg (5.5 lbs) (with BT-79Q)
Power source/Operating time at 20°C (68°F)		4xD size dry cell batteries (alkaline) /100 hours
		Ni-MH battery pack BT-79Q (7000mAh) /60 hours

<b>LS-80X</b>		
On-Grade Precision	High	±1mm (±0.04in.)
	Normal	±2mm (±0.08in.)
Grade Information Channel	9 Channels (plus high/low out of range)	
Beam Detection Width	50mm (2.0in.)	
Display	LCD on each side	
Buzzer	Loud/Low/OFF	
Icons for RL-H4C Warnings	HI Alert, Low Battery	
Battery Level Indicator	LCD Icon	
Auto Shut-off	Approx. 30 minutes	
Dust and Water Protection	IP66 (IEC 60529)	
Operating Temperature	-20°C to +50°C (-4°F to +122°F)	
Dimension	146(L) x 76(W) x 25(H)mm (5.7(L) x 3.0(W) x 1.0(H)in.)	
Weight	200g (7.0oz.) including two AA/LR6 batteries	
Battery	Two AA/LR6 dry-cell batteries	
Operating Time at 20°C (68°F)	Approx. 120 hrs w/alkaline	

RL-H5A



RL-H5A  
Rotating Laser



Smart & Tough!  
All Round Construction Laser

- + 10 Arc second (1.5mm@30m) horizontal accuracy
- Long range operation 800m
- Sloping set
- Safety lock and tough IP66 construction rating
- High quality TOPCON laser
- User friendly design



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# Reliable partner with 3 “Highs”!

High accuracy

High reliability

High quality

## User Friendly Design

Big handle, easy to grab even with glove on.  
Clear operational button, easy to understand what to do.  
New design to care for the user's operation.



## High Accuracy for large area

### From pile foundation to construction

+ 10 Arc second (1.5mm@30m) high horizontal accuracy. Large range operation 800m.  
All round construction laser for pile foundation for buildings, leveling work for large construction site or farmland.



### Water gradient, a piece of cake!

RL-H5A can do leveling as well as sloping in single axis.  
Just using two buttons of the unit to set the laser on the level sensor.  
Easy to use on the site!

## Reliable leveling work at construction site



### Reliable even at the vibrated environment

Electronic self-leveling mechanism inside makes stable laser beam even at vibrated environment where pendulum cannot perform well. Also, safety lock (high alert) function let the operator know in the case that the unit get slanted and its height changes. You can rely on it to use.



### Tough IP66 Construction Rating

With the IP66 rating, RL-H5A is “Construction Site Tough” and can withstand dust, a sudden shower and even torrential rainfall.

## High Quality Topcon Laser

Topcon believes the product on site must have reliability from the customer.  
Therefore, the tough environmental test, simulated as tough construction site, is performed for RL-H5A.



High/Low Temperature Test



Repeatability Accuracy Test



Laser Endurance Test



Rotating Head Endurance Test

# RL-H5A

## Level Sensor

### Level sensor LS-80X

Standard level sensor. Arrow display with buzzer shows the difference.  
Displays Topcon laser status alerts (HI and low battery).



### LS-80X Display

On-grade precision:  $\pm 1\text{mm}$  or  $\pm 2\text{mm}$

9-channel grade indication  
(5mm width per channel)

Warning for RL-H5A laser

HI Alert

Low battery

Battery level of LS-80X

