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# **EQUIPMENT GUIDE**

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ANGLE MEASURING | LEVELING | PIPE LAYING | CHECKING ELEVATIONS | SETTING GRADE ACCESSORIES | HORIZONTAL/VERTICAL LAYOUT | INTERIOR LAYOUT

### **Topcon RLH4C Laser Level**

An all-in-one laser, the Topcon RL-H4C rotary laser level offers an operating range of 2,600 ft diameter with high accuracy, accurate to +/-10 arc seconds, that's 1/16" at 100' and steep matching slopes. it is a great Laser Level for machine control, or checking grade, use for general construction, site preparation, concrete, grade checking.



### Specifications

Accuracy	Horizontal ± 10 arc sec	
Self leveling range	Horizontal ± 5°	
Working area	2,600' (800m)	
Rotation speed	600 rpm	
Dust and water protection	IP66	A TORONO
Operating time	Alkaline: 100 hrs/ Ni-Mh: 60 hrs	RUHUS IN A STATE OF THE STATE O
Operating temperature	-4° F to +122° F (-20° C to +50° C)	
Size (H x W x L)	216.5 x 195.6 x 177mm	RLH4C4B/5B
Size (H x W x L)	216.5 x 195.6 x 177mm	RLH4C4B/5B

### **Topcon Tri-Pods**

TP-110/TP-100 - Tripod for a the detachable basement.	eodolite level v	with a		
Model	TP-110	TP-100		
Center Pin Size	5/8"	5/8"		PEGN
Shape of Tripod Head	Flat	Flat		
Expanded Length (mm)	1,710	1,650		<b>*</b>
Retracted Length (mm)	1,010	1,000	P Y	<b>,</b>
Mass (kg)	4.0	3.7	TP-110	TP-100





### Topcon Taurus 2LS Rotating Laser

The Topcon Taurus is the perfect laser for all of your general purpose construction applications. Hit the power button and get to work in seconds. The Taurus is the perfect tool for quick and accurate grading and excavation work. This self-leveling laser makes every job faster and easier. From checking grades and excavations, to setting forms for concrete, to general building, Taurus makes it easy.



Specifications		
Accuracy	±2mm over 20m	
Automatic Correction Range	±3°	
Operating range (diameter)	Approx. 4m to 300m with LS-1	
Rotation speed	600 rpm	
Laser source	Laser diode (635nm)	ZLS TAURUS
Laser output	2.4mW	
Water and dust resistance	IP56	808
Operating temperature	-20° to +50°	
Power supply	4x C size dry cells (alkaline)	Taurus 2LS
Operating time	Approx. 60 hours	
Weight	2kg (including batteries)	
Dimensions	167 x 192.5 x 189mm	

# MEASURING TOOLS

### Topcon TP-L4B Pipe Laser

Topcon's TP-L4B is the perfect entry-level utility laser for those in search of high accuracy and great features at an economical price. The TP-L4B provides automatic line centering and grade zeroing, along with the incredible accuracy you expect in a Topcon pipe laser, all with a bright, perfectly round red beam.

#### TP-L4B features include:

- Automatic line centering and grade zeroing.
- Bright, easy-to-read rear display.
- World's Best long-range spot quality.
- RC-200 radio remote for complete control of All metal, waterproof housing so you know it'll survive even under the toughest conditions.







TP-L4B



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### Topcon Leo3 Laser Level

The Leo3 is a 3-line laser line. The two vericale laserijnen that contradict each other can be turned easily angled corners. This is ideal for the placement of walls and walls. Also ideal is the tile work all kinds. By automatically leveling pendulum mechanism, leveling the 2LS Leo 3 automatically quickly and accurately.



Specifications		
Accuracy	3 mm / 10 meter	
Range	25 meters *	
Range with receiver	50 meters*	
Laser Lines	1x horizontal/ vertical 2x/ 1x perpendicular	725
Laser diode	Class 2	<b>8</b>
Leveling range	3 degrees	
Protection	IP54	
Connection	5/8"	Leo3
Dimensions LxWxH	175 x 120 x 120 mm	

### Topcon RLVH4DR-GC Laser Level

The Topcon RL-VH4 series laser level provide fast, superior leveling and visibility for interior and general contractor's. The Topcon RL-VH4 Series Laser Levels are up to four times more visible with twice the operating time. It's an unbeatable combination.



Specifications	
Accuracy	±1/8" at 100'
Working range with detector (diameter)	2000′
Beam type	635 nm red
Laser class	3R
Rotating speed	0-300 rpm
Water-dust proof	IP 54
Scanning width	180 degrees
Battery Power with Alkaline	90hr
Battery Power with Rechargeable Ni-MH	BT-63Q 27hr RLVH4DR-GC
Weight	2.2 kg
Dimensions	182 x 167 x 240mm



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### Topcon Auto Level ATB4 24X

The Topcon AT B4 Automatic Level enables surveyors, builders and civil engineers to take highly accurate horizontal plane and angle measurements. It features 24x magnification and superior telescope design that provides clear and bright view. With 1/16 inch accuracy and a built-in compensator, this optical instrument ensures precise leveling even when working near heavy equipment or busy highways.



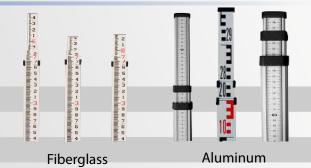
Specifications		
Length	215mm (8.46 in.)	
Magnification	24X	
Objective Aperture	32mm (1.26 in.)	
Resolving Power	4 in.	
Field of View	1°25' (at 100m/328ft.) (2.5m/8.2 ft.)	AF FLOREIGH
Min. Focus from end of telescope	0.2m (7.9 in.)	
Min. Focus from instrument center	0.3m (1 ft.)	
lmage	Erect	
Stadia Constant	0	
Stadia Ratio	100	
Focusing Knob	1-speed	ATB4 24X
Sighting Aid	Gun Sight	
Accuracy without Micrometer	2.0mm (0.08 in.)	
Accuracy with Micrometer	n/a	

### Topcon Accessories - Survey Rods / Reciever

These Rod's have sharply defined characters and graduations that can easily be read in any lighting. These leading edge Telescopic Grade Rod is ideal for surveying, plot mapping, building, planning, grading and leveling.

Description	Model #
Rod 25' in Inches Fiberglass	807338
Rod 25' in 10ths Fiberglass	807348
Rod 13' in 10ths Aluminum	807397
Rod 13' in Inches Aluminum	807398
Reciever	LS80L
Reciever Holder	N/A

Using a LS-80 laser receiver/detector in conjunction with a Rotating Laser allows one person to do the work of two.





LS80L Reciever & Holder







POINT TO POINT LASERS | CONTINUOUS LINE LASERS | ROTARY LASERS ACCESSORIES | HORIZONTAL/VERTICAL LAYOUT | INTERIOR LAYOUT

## Pacific Laser Systems PLS-3

The Pacific Laser Systems PLS 3 Handheld Laser provides 3-beam plumb and level, and point-to-point laser alignment, allowing you to lay out reference points faster than traditional, labor-intensive construction levels.



Specifications		
Leveling Type	self	
Beam (Qty)	3	
Accuracy	1/4 in. at 100ft	
Interior Range (ft)	100	- IFLS
Exterior Range (ft)	100	
Self Leveling Range	6°	PLS <sup>3</sup>
Battery Life	30hrs (AA)	
Dimensions (L x W x H)	1 1/2 x 4 1/2 x 3 1/8	PLS3

With a PLS laser and a little thought you can reduce your layout time dramatically. Use your PLS 3 to determine reference points and lines down and up for each light, per dimensioned plans. Install conduit, raceways, fixtures, and more.





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### Pacific Laser Systems PLS-5

The industry standard for plumb, level and square layout. The PLS 5 has been the essential layout tool for commerical drywall, glazier, framing and industrial contractors since 1995.

### **Specifications**

Working Range	+/- 100 Feet (30 meters)
Accuracy (all beams)	+/- 1/8 inch @ 100 Feet +/- 3mm @ 30 Meters

Leveling	Automatic
Leveling Range	6 Degrees
Power Supply	3 "AA" Batteries
Operating Time	+ 30 Hrs. continuous
Dimensions	2" x 4" x 4 3/4"

Weight 1.13 lbs. (.52 kg.)





PLS5

### Class II Laser Product

## Pacific Laser Systems PLS-5X System

The industry standard for plumb, level and square layout. The PLS 5 has been the essential layout tool for commerical drywall, glazier, framing and industrial contractors since 1995.

#### **Specifications**

Weight

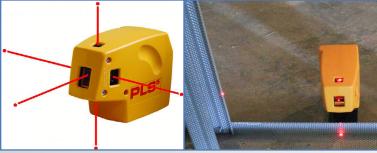
Working Range	+/- 100 Feet (30 meters)
Accuracy (all beams)	+/- 1/8 inch @ 100 Feet +/- 3mm @ 30 Meters
Leveling: Automatic Leveling Range	6°
Power Supply	3 (AAA)
Ratteries Operating Time	30+hrs

1.13 lbs.

With a PLS laser and a little thought you can reduce your layout time dramatically. Use your PLS 5 to determine reference points and lines down and up for each light, per dimensioned plans. Install conduit, raceways, fixtures, and more.









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### Pacific Laser HVR-500 Package

The PLS HVR 505R is a compact, mid range laser designed for light commercial, residential, and remodeling projects. Horizontal and vertical applications. This rotary laser is ideal for midrange outdoor horizontal and vertical layout, as well as interior acoustic ceiling and drywall installation.



Specifications	+/- 500 Feet Radius (152 meters Radius)	
Working Range	5°	
Accuracy (all beams)	+/-1/8 inch @ 100 Feet (3mm @ 30 meters)	
Power Supply	NIMH Rechargeable Batteries and Alkaline Battery Pack	
Dimensions	7.5 inch x 8 inch x 6 inch	
Class II Laser Product		

HVR-500

### Pacific Laser HVR-1000 Package

The PLS HVR1000 long range rotary laser that has horizontal and vertical capabilities and has a usable diameter of 2,000 feet with 3 rotating speeds and 3 scan modes. The PLS HVR1000 is versatile for mid and long range layouts with an accuracy of 1/10 inch at 100 feet.

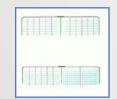


Specifications		
Working Range	1,000 Feet	
Accuracy (all beams)	+/- 1/10 Inch @ 100 Feet	
Maximum Indoor Visibility	1,000 Feet	
Leveling Range	+/- 5 Degrees	
Display Angle	360°	
Operating Time	30+hours	
Power Supply	Ni-Cad Rechargable	HVR-100
Class III Laser Product		

### **Engineering Field Book**

Hard cover field books are weatherproof and durable even when wet. Books contains 160 pages (80 Sheets) plus include an index of table formulas for slope staking, right angles, curves, conversions, trig, rods, links, and more.















SURVEYORS TAPE | SURVEYORS MARKING FLAGS | MARKING PAINT

### **Survey Stakes**

OAK	8 IN	(25 BDL)
OAK	18 IN	(50 BDL)
OAK	24 IN	(50 BDL)
OAK	28 IN	(50 BDL)
OAK	36 IN	(50 BDL)
OAK	148 IN	(25 BDL)
OAK	5 FT	(25 BDL)
OAK	6 FT	(25 BDL)



Survey grade stakes.

## **Survey Tacks**

GALVANIZED	#14	1LB Box	



### Survey Marking Flag

15901	BLUE
15901	RED
15901	WHITE
15901	GLO-ORANGE
15901	GREEN
15901	YELLOW







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## Surveyors Tape

VINYL	300FT	BLUE
VINYL	150FT	BLUE-GLO
VINYL	300FT	GREEN
VINYL	300FT	ORANGE
VINYL	150FT	ORANG-GLO
VINYL	150FT	PINK-GLO
VINYL	300FT	RED
VINYL	300FT	WHITE
VINYL	300FT	YELLOW
VINYL	300FT	CHARTREUS
VINYL	150FT	RED-GLO
VINYL	150FT	LIME-GLO



Standard



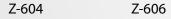
**Flouresent** 

## **Inverted Tip Marking Paint**

SEYMOUR BRAND Stripe Inverted Tip Fluorescent Paint Spray Through Cap VOC Compliant - Waterbased. Available in 16 & 20 ounce cans.

rater basear, trainar	ore in to a 20 dance cans.
16oz	White
16oz	Precaution Blue
16oz	Alert Orange
16oz	Flour Green
16oz	Safety Red
16oz	Hi Viz Yellow
16oz	Hot Pink
16oz	Red-Or. Fluorescent
20oz	Safety Green
20oz	Hi Viz Yellow
20oz	White
20oz	Precaution Blue
20oz	Black Asphalt
20oz	Red-Or. Fluorescent
20oz	Green Fluorescent
20oz	Yellow
20oz	Pink Fluorescent
Z-604	Stripe Mark Machine
Z-606	33" Stripe Wand
	16oz 16oz 16oz 16oz 16oz 16oz 16oz 16oz









**Measuring Tools** 



## MEASURING WHEELS



### Keson RR30 Measuring Wheel

Kesonite Wheels (Made of Kesonite)

There are inherent vulnerabilities of die cast and metal spoked wheels. Everyday use requires that a wheel handle some rough treatment without dents and without bending. Not all wheels are up to this. Our solution? Invent a new material. Kesonite is a strong, dense metal/resin composite. It holds its shape better than metal and it's stronger than a spoked or die cast wheel. The weight of the wheel makes it easier to use and more accurate on rough terrain.

### EASY-READ, MAGNIFIED COUNTER

5-digit, easy-read, magnified counter measures 9,999 feet, 11 inches (9,999.9 ft. on the engineers' models and 9,999.9 meters on metric).

#### 3-PC. PISTOL GRIP HANDLE

Telescopes down to a more compact 23 inches for ease of transport and more compact storage.



MODEL	UNITS	DIA.	CIRC.	SPECIAL FEATURES
RR30	ft./in.	11-1/2 in.	3 ft.	Increased strength & weight



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## MEASURING WHEELS

### Keson RR182 Measuring Wheel

#### **Dual Wheel**

Keson has patented a raised reset button that enables you to reset the counter with your foot. We have improved the supporting structure around the reset so that it can handle foot taps to zero the counter.

The dual wheel provides greater stability when measuring, making it easier to maintain a straight line as you walk.

The handle telescopes from 20 inches (fits into a toolbox or briefcase) up to 42 inches.



MODEL	UNITS	DIA.	CIRC.	SPECIAL FEATURES
RR182	ft./in.	4 in.	1 ft.	Dual-wheel stability

## Keson MP401/MP301 Measuring Wheel

### METAL PROFESSIONAL SPOKED WHEELS

MP401 - The 4-foot circumference wheel levels out uneven ground by spanning divets that smaller wheels would dip into. The wheel's size enables it to roll and register feet clicks at the best pace in the industry.

MP301-This slightly more compact wheel is a little lower in price without compromising any durability.

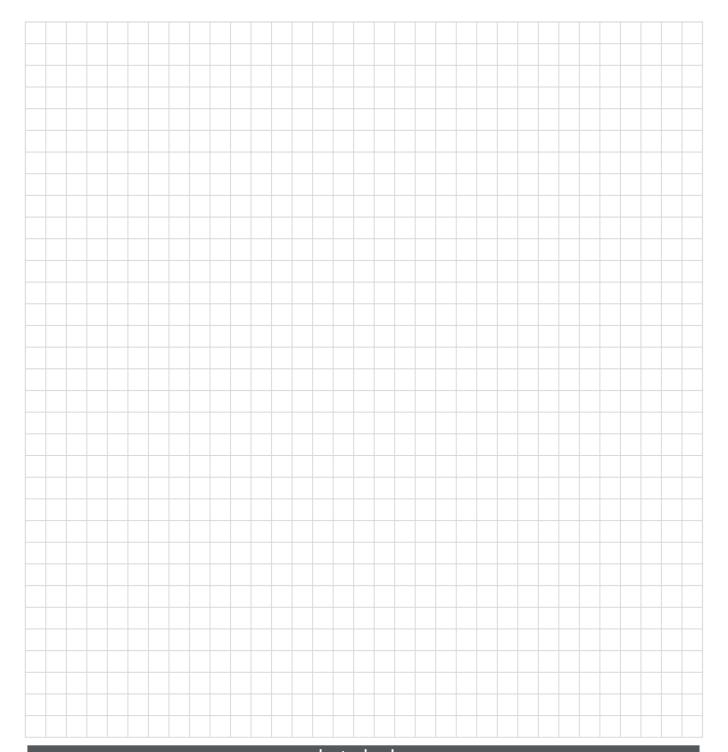


MODEL	UNITS	DIA.	CIRC.	SPECIAL FEATURES
MP401	ft.	15-1/2 in.	4 ft.	Metal Spoked Wheels
MP301	ft.	11-1/2 in.	3 ft.	Metal Spoked Wheels
MP401E	ft.	11-1/2 in.	4 ft.	Electronic





Job Name:		Date:			
Ву:	Chk:	Job#	Sheet#	of	
Contractor:					
Description:					



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