

LP30-LP31

Level Planer

General-Purpose Level Planers Featuring the New LR100 Detector







IEC529



LP30•LP31 increase leveling productivity both indoors and outdoors.

Whether indoor or outdoor, the LP30 and LP31 meet the needs of a wide range of leveling applications in construction, civil engineering and interior finishing work. With the unique LR100 detector, leveling efficiency has been even further enhanced.

Two models to fit your needs

The LP30 is a high-grade planer offering superior accuracy and a wide measuring range. For less demanding measuring situations, the highly dependable LP31 offers similar performance at a lower price.

	LP30	LP31
Accuracy	±10 arc seconds	±15 arc seconds
	±1.5mm at 30m	±2.25mm at 30m
	(±1/16 in. at 100 ft.)	(±3/32 in. at 100 ft.)
Range	300m (1000 ft.) radius 600m (2000 ft.) diameter	120m (400 ft.) radius 240m (800 ft.) diameter

Dependable compensator ensures accuracy

Both the LP30 and LP31 employ Sokkia's precision pendulum compensator to ensure horizontal accuracy. This compensator is activated by gravity and is unaffected by temperature variations. Accurate measurement is therefore possible in a variety of measuring environments. The air damping system ensures laser beam stability even in locations subject to vibration. The reliability and durability of this compensator system has been proven at job sites all over the world.

Simple operation

Simply place the LP30/31 on a tripod or level arm, and set it approximately level. The built-in compensator then automatically sets the horizontal plane and the laser rotor starts revolving immediately. If the unit is tilted or jarred beyond its self-leveling range, the rotation and laser beam stop automatically and a warning lamp flashes.

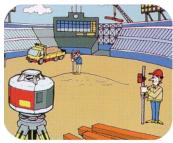
Rugged design to withstand the rigors of construction sites

The LP30 and LP31 are highly water-resistant units protected from splash water from any direction in compliance with IPX4 (IEC529). If caught in a sudden shower, just wipe off the water. The rotor assembly is fully enclosed in a reinforced glass housing protecting it from water and dust.

Three power packages

The LP30/31 can be powered by four D(R20) size batteries or a rechargeable Ni-Cd battery. The optional AC adapter EDC79 (plus adapter EDC74) enables use with AC power (100V to 240V).





Stadium

Leveling work on outdoor construction sites. Teamwork is possible using multiple units



Drainage

When used with a leveling rod, it's easy to measure the height difference of runoff ditches, sewage pipes and drains.



Floor

For floor leveling.



Ceiling

A level arm facilitates one man leveling operations at elevated positions.



Wall

Simplifies interior work. Using an elevating tripod, the height of the unit can be easily adjusted.

New Compact Detector LR100

Advanced functions packaged in a rugged compact body which fits nicely into your palm.



- Dual displays

LR100 has displays on both front and reverse faces

- Auto illumination

The LCD displays are automatically illuminated when the laser beam is detected. This new function enables you to save battery power when working in low-light conditions.

- Three buzzer settings

The buzzer volume can be set to "Loud", "Quiet" or "Off"

- **Bubble tube** is equipped as standard for precision leveling.
- Waterproof structure

The LR100 is fully protected from water penetration in compliance with IPX7 (IEC529) enabling it to be handled with wet hands.

- Protector LRP1

Optional rubber protector LRP1 protects the LR100 from hard shocks.

- 100 hours continuous use

With two alkaline batteries, the LR100 operates continuously for approx. 100 hours. The AA (R6) size Ni-Cd rechargeable batteries power it for approx. 25 hours. To save the battery, the power is turned off automatically if the unit does not receive the laser beam for 10 minutes.

- Two sensitivity settings for all measuring needs

Two sensitivity settings are available. Setting 1 is for short range precision measurement while Setting 2 is for general purpose measurement.

	Sensitivity settings		
Key selection	Setting 1	Setting 2	
Hi	±0.8mm	±2.5mm	
Low	±2.5mm	±4.3mm	



Detector LR100

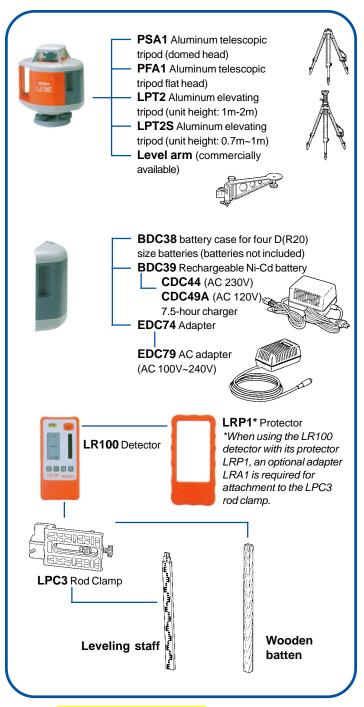


Display on reverse face



Fitted with Protector LRP1

LP30•LP31 Level Planer System Specifications



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Level planers	LP30	LP31			
Laser class	Class 1 (IEC 825-1), Class 1 (CFR 21)				
Light source	Laser diode, 785nm wavelength				
Beam diameter	15mm dia. (at projection point)				
Rotation speed	600rpm				
Typical measuring range*radiu	s 300m (1,000 ft.)	120m (400 ft.)			
diame	ter600m (2,000 ft.)	240m (800 ft.)			
Horizontal accuracy	±10"	±15"			
	(±1.5mm at 30m,	(±2.25mm at 30m,			
	±1/16 in. at 100 ft.)	±3/32 in. at 100 ft.)			
Compensator	Pendulum com	pensator with air			
•		nper			
Compensation range	±10'				
Water resistance	Complies with IPX4 (IEC529),				
		rotection			
Sensitivity of circular level	10' / 2mm				
Warning	Out of compensation range,				
	Low battery, Rot	or malfunctioning			
Operating temperature	-10°C to 50°C (14°F to 122°F)				
Dimensions	W194 x D150 x H232 mm				
Weight	2.5kg (5.5 lb), including D-cell batteries				
Power supply					
Battery case BDC38		20) size batteries			
Operating duration at 20°C	55 hours with	50 hours with			
	alkaline batteries	alkaline batteries			
Rechargeable battery BDC39	Rechargeable Ni-Cd battery				
Operating duration at 20°C	20 hours	17 hours			
Recharging time	7.5 hours				
AC adapter EDC79	Input voltage: AC 100V to 240V				
*The actual measuring range	will depend on local er	vironmental conditions			

Detector		LR100	
Display		LCD with illumination, on both faces	
Detection sensitivity	Setting 1	H: ±0.8mm, L: ±2.5mm	
	Setting 2	H: ±2.5mm, L: ±4.3mm	
Buzzer		Loud/Quiet/Off selectable	
Auto illumination		Displays are automatically illuminated	
		when laser beam is detected.	
Sensitivity of level		1° / 2mm	
Water resistance		Complies with IPX7 (IEC529)	
Operating temperature	е	-10°C to 50°C (14°F to 122°F)	
Dimensions		W65 x D25 x H140 mm	
		(W2.6 x D1.0 x H5.5 in.)	
Weight		Approx. 200g (7.1 oz),	
		including batteries	
Power supply		Two AA (R6) size batteries	
		(D-cell or Ni-Cd)	
Operating duration at	20°C	Alkaline: Approx. 100 hours	
		Ni-Cd: Approx 25 hours	
Auto power cut-off		10 minutes after operation	

Designs and specifications are subject to change without notice.



Laser beam is invisible to the naked eye.



SOKKIA CO.,LTD.