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TP-L6 series pipe laser

Manufacturer documentation

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13.SPECIFICATIONS

TP-L6 series

Light source	Visible laser diode
Wave length	520nm (TP-L6WGV/WG/WBG, green) 635nm (TP-L6WAV/WA/WB, red)
Laser power output	4.5mW (CW)
Laser class	Class 3R
Laser diameter	ø12mm (collimated)

(The laser relating specifications described above apply to the internal laser as well.)

Line control width	Approx. 17°  Maximum line adjust range (p. 22)
Grade readout	-15 to 40% (-150 to 400‰)
Minimum setting of grade	0.001% (0.01‰)
Grade setting method	Absolute encoder
Auto leveling range	
Slope direction:	±10%
Axis direction:	Approx. ±4°
Horizontal accuracy	±10 arc seconds
Automatic alignment distance	5 to 150m (16 to 492ft) (TP-L6WGV/WG/WAV/WA)

Upper/Lower Laser (TP-L6WGV/WAV only)

Light source	Visible laser diode
Wave length	655nm
Laser power output	Upper laser beam : 1mW (maximum) Lower laser beam : 1.2mW (maximum)
Compensating range	Grade setting direction Approx. ±4° Rotating direction Approx. ±2°
Vertical accuracy (Rolling direction)	

Upper ±1.5'

Lower ±3.5'

Bluetooth wireless communication*1 (TP-L6WGV/WG/WBG/WAV/WA/WB)

Transmission method	FHSS
Modulation	GFSK
Frequency band	2.402 to 2.48GHz
Bluetooth profile	SPP, DUN
Power class	Class 1.5
Usable range	about 5 m (Changed depending on the used controller.) *2, *3 (while in communication with the specified controller)
Authentication	Yes/No (selectable)

*1: *Bluetooth* function may not be built in depending on telecommunications regulations of the country or the area where the instrument is purchased. Contact your local dealer for the details.

*2: No obstacles, few vehicles or sources of radio emissions/interference in the near vicinity of the instrument, no rain.

*3: Usage range could be shorter depending on specifications of Bluetooth device to communicate.

Power source	Li-ion battery BDC72
Working duration at 20°C (68°F)	
TP-L6WGV/WG/WBG	about 45 hours
TP-L6WAV/WA/WB	about 60 hours
Nominal voltage	7.2 V
Capacity	5,986 mAh
Dimensions	40 (W) X 70 (D) X 40 (H) mm
Weight	About 220 g



- Battery using time will vary depending on environmental conditions and operations done with TP-L6W series.

Charger (CDC77)

Input voltage	100 to 240 V AC
Charging time (at 25°C per battery)	
BDC72	About 8 hours (Charging may take longer than this at low or high temperature.)
Range of charging temperature	0 to 40°C (32 to 104 °F)
Range of storage temperature	-20 to 65°C (-4 to 149 °F)
Dimensions	94 (W) X 102 (D) X 36 (H) mm
Weight	About 250 g
Operating temperature range	-20 to 50°C (-4 to 122 °F)
Storage temperature range	-30 to 60°C (-22 to 140 °F)
Water resistance	IPX8 (IEC 60529:2001) (when the battery holder is attached)
Size	125mm X 250mm (without handle) 125mm X 280mm (with rear handle)
Weight	about 3.0kg (with BDC72)

Remote controller Model RC-500

Operating distance	Though the pipe from a forward position, about 200m (656ft.) From above panel, about 25m (82ft.)
Functions	Line control, Laser beam ON/OFF, Laser beam mode, Centerline LED, Upper/Lower laser switch, Automatic alignment mode, Line centering
Power supply	Two AA size dry batteries
Working duration at 20°C (68°F)	about 8 months (Using manganese dry batteries)
Water resistance	IPX6 (IEC 60529:2001)
Size	59(W) X 27(D) X 154(H)mm
Weight	about 170g (with batteries)



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