



PLT 400 DIGITAL LAYOUT TOOL

Simpler, faster layout



SIMPLICITY MEETS VERSATILITY

Combining ease-of-use with the power and accuracy you need for the most challenging projects, the PLT 400 total station helps you work faster and smarter. With built-in automatic field calibration and level detection, it is designed so that just one person can carry out layout and measurement tasks with precision and confidence.

Paired with Hilti Construction Layout (HCL) field software and the powerful PLC 600 controller, the PLT 400 also enables you to leverage digital plans. This can help to significantly boost productivity and reduce the risk of costly mistakes and rework.



Higher productivity

- Extended range and greater accuracy means fewer set-ups needed
- Fewer interruptions thanks to improved prism tracking



Peace of mind

- Self-leveling with single-button operation
- Improved tool performance through self-calibration and monitoring



All round performance

- Powerful zoom lens for long-range measuring tasks
- Focusable EDM laser for more precise measurements

TECHNICAL DATA

Performance

Accuracy

Angle accuracy (based on ISO 17123-3)	2" / 4" (0.6 mgon/1.2 mgon)
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Automatic level compensator

Type	MEMS, dual-axis, self-leveling
Accuracy	2" (0.6 mgon)
Working range	± 4.5° (± 5 gon)

Distance measurement

Accuracy to reflectors (based on ISO 17123-4)	
Standard	2 mm (0.007 ft) + 2 ppm
Tracking	3 mm (0.01 ft)
Accuracy reflectorless mode	2 mm (0.007 ft) + 2 ppm
Range reflector mode	
Single prism 50 mm	900 m (2,953 ft)
Single prism 25 mm	400 m (1,312 ft)
Cat-eye reflector 85 mm	300 m (984 ft)
Foil reflector 60 mm	300 m (984 ft)
Shortest possible range	1 m (3.3 ft)
Range reflectorless mode	
Kodak White (90% reflective)	840 m / 150 m (2,756 ft / 492 ft)
Kodak Gray Card (18% reflective)	375 m / 150 m (1,230 ft / 492 ft)
Shortest possible range	0.5 m (1.6 ft)

Robotic tracking

360° cat-eye prism / POA 25	
Robotic range	1.5–120 m (5–427 ft)
360° prism / POA 20	
Robotic range	1.5–400 m (5–985 ft)

EDM specifications

EDM laser and principle

Light source	Laser diode 660 nm
Laser class safety	
Reflector mode	Laser class 2
Reflector-less mode and laser pointer	Laser class 2

EDM beam divergence

Adaptive to distance (focusable laser)

EDM specifications continued

EDM laser and principle

Diameter	< 10 mm @ 100 m (0.4 in / 328 ft)
Diameter	< 4 mm @ 40 m (0.16 in / 131 ft)

General specifications

Telescope

Lens system	Continuous focus
Aperture	32 mm (1.3 in)
Field of view	1.8–11° (2–12 gon)
Focusing distance	0.5 m – infinity (1.7 ft – infinity)
Crosshair	Digital, superimposed
Tracklight built in	Red/green status LEDs

Camera

Resolution of stream	960 × 540 or 1920 × 1080
	1–7 m: 1920 × 1080 (2.1 MPx)

Environmental

Operating temperature	–20 °C ... +50 °C (–4 °F ... +122 °F)
Storage temperature	–40 °C ... +70 °C (–40 °F ... +158 °F)
Dust and water proofing	IP55

Power supply

Internal battery	Li-Ion, 21.6 V / 4 Ah
Operating time	4 hours

Communications

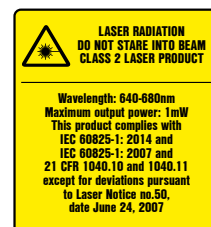
Wireless communication	WLAN, Dual 2.4 GHz and 5 GHz band, IEEE 802.11
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Weight

Instrument (PLT 400)	6.19 kg (13.65 lbs)
Internal battery (B22 4.0 V22)	0.70 kg (1.54 lbs)

Dimensions

Height × width × depth	367 mm × 225 mm × 178 mm
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