



Measuring Systems

Leading-edge Technology. Outstanding Service.



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Unleashing full measuring power.

Hilti Pulse Power

Unique measuring performance.

Extremely fast. Extremely reliable.
Forget what you know about measuring technologies.

Hilti Pulse Power works with up to 1 million impulses per second allowing for highly reliable readings even under the most difficult conditions.

Pulse Power is yet another demonstration of Hilti's innovative ability and foresight. The challenge of achieving even greater reliability and efficiency in various measuring and alignment tasks has been met very convincingly. The advantages of Hilti Pulse Power are now available with a comprehensive product portfolio. Hilti, once more, impressively substantiates the power of innovation.

PULSE III POWER

Rotating Lasers



Catch the Beam in one pass

On a bright, sunny day, the task of transferring reference heights over moderate distances can often become a tedious process due to difficulty in locating the rotating laser beam. Not with Hilti Pulse Power! Thanks to the high-frequency pulses of the laser beam, a single pass of the rotating laser beam over the receiver is all that is needed for immediate location of the line.

Line and Combilasers



Visibility without compromise

The Hilti PMC 46 multi-line laser feature outstanding outstanding visibility of the lines they project whether working with or without a receiver.

Range Meters



Top measuring performance

Thanks to Hilti Pulse Power, accurate, reliable readings can now be taken even under the most unfavorable conditions such as in bright sunlight. Hilti Pulse Power makes trouble-free measurements of distances up to 100 meters possible without need for a target plate-achieved efficiently with only one person.

Laser range meter PD 5



Applications

- Measuring distances from 0.25 m to 70 m quickly and accurately
- Measuring heights where alternative measuring methods fail
- Measuring quickly and safely in places where access is difficult

Advantages

- Simple and intuitive to use
- Single-button operation
- New compact design fits in every pocket
- Water resistant and dust tight
- Rugged and durable
- Ergonomic design for unique operating convenience



PULSE **POWER**



reddot design award winner 2011

Technical data	
Accuracy	±1.5 mm
Measuring range	0.25 m - 70 m
Laser class	< 1 mW, 635 nm, Class 2 (IEC 60825-1:2008), Class II (FDA CFR 21 art. 1040)
Measuring functions	Single and continuous measurement
IP protection class	IP 55 (IEC 529)
Operating temperature range	-10 - 50 °C
Battery type	2 x 1.5 V (AAA)
Operating time with alkaline battery	Up to 8000 measurements
Dimensions (LxWxH)	164 x 33 x 21 mm
Data memory	Last 2 measurements



Ordering designation	Package contents	Sales pack quantity	Item number
PD 5	1x Laser range meter PD 5, 2x Battery AAA, 1x Toolbag PDA 605, 1x Belt clip PDA 615	1	2004830

Laser range meter PD-E

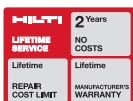


Applications

- Measuring quickly and safely in places where access is difficult
- Measuring heights from floors to ceilings in a one-man operation
- Measuring surface areas for quotations in renovation work
- Easy measurement of roof lengths using the trapezoid function
- Measuring long distances using outdoor mode
- Determining the length or height of objects that cannot be directly accessed (remote measurement)

Advantages

- Measures up to 200 m even under the toughest outdoor conditions
- The outdoor display is readable even in very bright sunlight
- LEDs provide clear identification of the measuring reference and thus help avoid errors
- Built-in 360° tilt sensor for various application possibilities
- Built-in optical viewfinder for outdoor measurements
- Measuring functions are aided by the graphic display





PULSE III POWER

Technical data	
Accuracy	±1 mm
Measuring range	0 m - 200 m
Laser class	< 1 mW, 635 nm, Class 2 (IEC 60825-1:2007), Class II (FDA CFR 21 art. 1040)
Calculation functions	Addition, Subtraction, Area, Volume, Painters area, Setting out, min/max, Timer, Offset, Memory (30x), Trapezoid (2x), Pythagoras (3x), Indirect measurement (4x)
Measuring functions	Single and continuous measurement, Outdoor mode, Digital spirit level
IP protection class	IP 65 (EN 60529)
Operating temperature range	-10 - 50 °C
Battery type	2 X 1.5 V (AA)
Operation time with alkaline battery	5000 measurements
Dimensions (LxWxH)	129 x 60 x 28 mm
Weight with batteries	0.2 kg
Automatic Switch-Off	Yes



Order description	Package contents	Sales pack quantity	Item number
PD-E	1x Laser range meter PD-E, 1x Battery AAA (2), 1x Toolbag PDA 65	1	2062050

Accessories for Laser Range Meter

Ordering designation		Sales pack quantity	Item number
Laser visibility glasses PUA 60		■ 1	284988
Target plate PDA 50		■ 1	282388

PD 5

Multi-line laser PM 4-M

The lines you need. Your fast and accurate squaring and aligning companion from Hilti.



Applications

- Setting out drywall tracks for partitioning
- Transferring reference heights
- Vertical alignment of pipes
- Leveling electric sockets, cable trays, radiators and pipe installations
- Leveling and aligning doors and windows

Advantages

- Projects clear 3D vertical lines with a cross on the ceiling
- Rotates around the center point for easy and fast aligning
- Fine adjustment knob for precise alignment

Technical data

PM 4-M	
Accuracy (at 24°)	±2 mm @ 10 m
Max. operating distance - without laser receiver	10 m
Max. operating distance with laser receiver (diameter)	50 m
Laser	< 1 mW, 635 nm, class 2 (IEC 60825-1: 2008), Class II (CFR 21 art. 1040)
Self leveling range	± 3°
IP protection class	IP 54
Battery type	4 x 1.5 V (AA)
Operation time with Alkaline battery	8 h
Dimensions (LxWxH)	124 x 124 x 187 mm

*Factors in particular extreme temperature fluctuations, humidity, shock, drop, etc., can affect the accuracy. Unless otherwise specified, the tool was under standard ambient (MIL-STD-810F) adjusted or calibrated



PULSE III POWER



Ordering

Ordering designation	Package content	Sales quantity	Item number
Multi line laser PM 4-M	equipped with Multi Line Laser PM 4-M, tripod adapter PMW 30, 4 batteries (Type AA), in Hilti case	1 PC	02047073

Combilaser PMC 46



Measuring Systems

Applications

- Transferring reference heights
- Vertical alignment of pipes
- Leveling electric sockets, cable trays, radiators and pipe installations
- Leveling and aligning doors and windows
- Aligning and squaring drywall framing
- Transferring fastening points from floors to ceilings

Advantages

- Complete solution for interior measuring applications
- Everything you need for leveling, aligning, plumbing and squaring – in one tool
- Includes an innovative universal adapter and compact tripod for placing or mounting the tool wherever needed
- New Impact Protection System (IPS) with rugged inner pendulum housing
- Magnetic foot for easy attachment to drywall track

Technical data

Accuracy	±2 mm at 10 m
Automatic switch-off	Yes
Battery type	4 x 1.5 V (AA)
Dimensions (LxWxH)	107 x 65 x 96 mm
IP protection class	IP 54 (IEC 529)
Laser beam diameter	less than 4 mm at 5 m
Laser class	< 1 mW, 635 nm, Class 2 (IEC 60825-1:2008), Class II (FDA CFR 21 art. 1040)
Laser functionality	Level, Align, Plumb, Square
Low battery indication	Yes
Operating temperature range	-10 - 50 °C
Measuring distance min/max	10m / 30m








PULSE POWER



Ordering designation	Package contents	Sales pack quantity	Item number
PMC 46 kit	1x Combilaser PMC 46, 4x Battery AA, 1x soft pouch, 1x Frame clamp PMA 25, 1x Universal adapter PMA 78, 1x Tripod PMA 20, 1x Case	1	411210

Accessories for Multi-directional Laser

Ordering designation	Laser receiver holder PRA 80	Laser receiver PMA 31	Laser visibility glasses PUA 60	Tripod PMA 20	Universal adapter PMA 78	PM 4-M	PMC 46	Sales pack quantity	Item number
							<input checked="" type="checkbox"/>	1	360058
						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	411288
						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	284988
						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	411287
							<input checked="" type="checkbox"/>	1	411286

Rotating laser PR 3



Applications

- Leveling (transferring heights, pouring concrete, excavation)
- Aligning (transferring building lines, aligning columns and walls)
- Slopes (ramps, parking lots, pipes)
- Squaring (walls, partitions)

Advantages

- Versatile rotating laser for leveling, aligning, slopes and squaring - indoors and outdoors
- Easy power management with rechargeable Li-ion battery pack
- High speed of rotation for a very stable line
- Remote control for operation by one person
- Built for jobsite conditions - water protected (IP 56)
- Digital measurement - read offsets from the PRA 31 laser receiver (optional accessory)














PULSE **POWER**

Technical data	
Accuracy	±0.75 mm at 10 m
Laser class	< 4.85 mW, 635 nm, Class 2 (IEC 825-1:2008), Class II (FDA CFR 21 art. 1040)
Max. operating distance with laser receiver (diameter)	300 m
IP protection class	IP 56 (IEC 529)
Operating temperature range	-20 - 50 °C
Battery type	Li-ion
Operating time with Li-ion battery	30 h
Dimensions (LxWxH)	252 x 252 x 201 mm
Rotation speed	300 rpm, 600 rpm, 1500 rpm
Self-levelling range at room temperature	5 °
Weight with batteries	2.4 kg



Ordering designation	Package contents	Sales pack quantity	Item number
Rotating laser PR 3 (indoor)	1x Rotating laser PR 3, 1x Battery pack PRA 84, 1x Remote control PRA 2, 2x Battery AA, 1x Target plate PRA 51, 1x Mains adapter PUA 81, 1x Case	1	2007617
Rotating laser PR 3 combo (indoor / outdoor)	1x Rotating laser PR 3, 1x Battery pack PRA 84, 1x Remote control PRA 2, 2x Battery AA, 1x Target plate PRA 51, 1x Mains adapter PUA 81, 1x Laser receiver PRA 20, 1x Laser receiver holder PRA 80, 1x Tripod kit PUA 20, 1x Case	1	3500560

Accessories for Rotating Laser

Ordering designation		PR 3	Sales pack quantity	Item number
Battery pack PRA 84		■	1	360055
Crank tripod PA 921 (0.73m - 1.63m)		■	1	378663
Laser receiver holder PRA 80		■	1	360058
Laser receiver PRA 20		■	1	2071120
Laser visibility glasses PUA 60		■	1	284988
Mains adapter PUA 81		■	1	2006089
Remote control PRA 2		■	1	331418
Slope adapter PRA 78		■	1	360059
Target plate PRA 50		■	1	285415
Tripod Kit PUA 20 (Tripod with measuring rod)		■	1	400936
Tripod bag PUA 40		■	1	377847

Ferrosan system PS 250



Applications

- Rebar verification and analysis
- Checking concrete coverage over large areas for structural repair work
- Building acceptance inspections and quality control
- Coring and hammer drilling without costly rebar hits and avoidance of damage caused by cutting through structurally significant reinforcement
- Structural assessment report generation including statistics and visual presentation in 2D/3D views of areas of up to 45x45 m

Advantages

- Scans large areas of concrete quickly and easily
- Provides accurate depth of cover measurements for reinforcement at depths of up to 100 mm
- Records scan data automatically over lengths of up to 30 meters and up to 9 Imagescans
- Displays a clear 2D image of the reinforcement on the monitor for on-the-spot structural analysis and depth of cover assessment



Technical data

Accuracy of depth measurement for rebar ¹⁾	±1 mm
Operating Temperature Range	-10 - 50 °C
Localization accuracy	±3 mm
IP protection class	IP 54
Scanner weight (incl. battery)	2.4 kg
Scanner dimensions	260 mm x 132 mm x 132 mm
Operation time with NiMH battery	8h
Max. detection depth for rebar ¹⁾	180 mm
Max. depth for determining depth of coverage ¹⁾	160 mm

¹⁾ Performance and accuracy can be significantly affected by site conditions. See operating instructions.



Ordering designation	Package contents	Sales pack quantity	Item number
Ferrosan system PS 250	Scanner, hand strap, scanner pouch, monitor, monitor pouch, battery packs (2), mains adapter (2), data cables (2), headset, adapter PSA 55, reference grids PSA 10 (5), adhesive tape, markers, brush, cleaning cloth, data module, meter stick, operating instructions (3), producer certificates (2), packed in a Hilti case	1	2044439
Ferrosan PS 200 S kit	Scanner, hand strap, scanner pouch, battery pack, mains adapter, data cable, adapter PSA 55, reference grids PSA 10 (5), adhesive tape, markers, brush, cleaning cloth, data module, meter stick, carrying belt, operating instructions (2), producer certificate, packed in a Hilti case	1	2044477
Monitor PSA 100	Monitor, tool bag, battery pack, mains adapter, data cable, connecting cable, data module, operating instructions, producer certificate, packed in a cardboard box	1	2006082