OPTIMISE YOUR
LAYOUT PROCESS

▶ Fast, precise layout.

▶ UNIQUE accessory package for increased efficiency (vTargets, vSphere, vPole).

▶ Easily move from the office to the field using the most popular iCloud construction software.

ABTECH
BUILDING

LEICA iCON iCS20
Motorised Construction Sensor

The Leica iCON iCS20 is perfect for projecting installation points for mechanical, electrical, and plumbing systems.

Its laserpointer automatically points to the layout points on ceiling, floor or wall.

▶ One-person operation reduces labour costs and increases productivity.

▶ Simplified laser layout process.

▶ Ready to use in seconds thanks to its "auto-setup" feature.

LEICA iCON iCS50
Robotic Construction Sensor

The Leica iCON iCS50 provides exceptional flexibility and efficiency.

The Leica vPole allows you to layout points faster and even mark hidden points.

▶ Simplified layout process due to visual measurement technology.

▶ Leica vPole with visual-based target tracking, automatic tilt compensation and auto-height detection.

▶ Flexible use of laser technology and Leica vPole.

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TECHNICAL DATA		iCON iCS20	iCON iCS50 Robotic
3D POINT ACCURACY			
Combination of angle and distance measurement	Laser	1.0 mm @ 10 m (0.04 in @ 33 ft) 2.5 mm @ 50 m (0.10 in @ 164 ft) 10.5 mm @ 250 m (0.41 in @ 820 ft)*	1.0 mm @ 10 m (0.04 in @ 33 ft) 2.0 mm @ 50 m (0.08 in @ 164 ft) 8.0 mm @ 250 m (0.31 in @ 820 ft)*
	vPen	1.5 mm @ 10 m (0.06 in @ 33 ft)**	1.0 mm @ 10 m (0.04 in @ 33 ft)
	vSphere	3.0 mm @ 50 m (0.12 in @ 164 ft)**	2.5 mm @ 50 m (0.10 in @ 164 ft)
	vPole tip	3.0 mm @ 50 m (0.12 in @ 164 ft)****	3.0 mm @ 50 m (0.12 in @ 164 ft)****
ANGULAR MEASUREMENT			
Accuracy Hz and V	Standard deviation ISO 17123-3	5" (1.54 mgon)	3" (0.93 mgon)
Working Range		horizontal (Hz) : 360°, vertical (V) : 290°	
DISTANCE MEASUREMENT			
Range	Reflectorless (Kodak White, 90% reflective)	0.3 to 50 / 250 m (0.98 – 164 / 820 ft)*	
	Reflectorless (Kodak Grey, 18% reflective)	0.3 to 50 / 120 m (0.98 – 164 / 394 ft)*	
	Standard prism (GPR1)	3.0 to 50 / 250 m (9.84 – 164 / 820 ft)*	
	Reflective tape (GZM31)	1.0 to 50 / 150 m (3.28 – 164 / 492 ft)*	
	vTarget (CVT3, CVT6)	1.2 to 40 m (3.94 – 131 ft)***	
	vPen	0.7 to 10 m (2.30 – 33 ft)**	
	vSphere	1.5 to 50 m (4.92 – 164 ft)**	
Accuracy Standard deviation ISO 17123-4	Non-Prism / Any surface	1.0 mm @ 10 m (0.04 in @ 33 ft)	<1.0 mm @ 10 m (<0.04 in @ 33 ft)
		1.5 mm @ 50 m (0.06 in @ 164 ft) / 6.0 mm @ 250 m (0.24 in @ 820 ft)*	
	Standard prism (GPR1)	1.5 mm @ 50 m (0.06 in @ 164 ft) / 3.5 mm @ 250 m (0.14 in @ 820 ft)*	
	Reflective tape (GZM31)	1.5 mm @ 50 m (0.06 in @ 164 ft) / 2.5 mm @ 150 m (0.08 in @ 492 ft)*	
Laser dot size	Coaxial, visible red laser (II class)	17.2 x 27.3 mm @ 50 m (0.68 in x 1.41 in @ 164 ft)	
AUTOMATIC AIMING			
Auto aiming range	Standard prism (GPR1)	3.0 to 250 m (9.84 to 820 ft)*	
	vTarget	1.2 to 40 m (3.94 to 131 ft)***	
CAMERA			
Field of view / Resolution	Overview camera (diagonal)	27.6° (4.91 m @ 10 m / 16 ft @ 33 ft) / 12.33 MP	
	On-Axis camera (diagonal)	7.5° (1.31 m @ 10 m / 4.29 ft @ 33 ft) / 12.33 MP	
	Fish-eye camera (circular)	~200° (circular) / 13.31 MP	
Zoom		16x	
GENERAL			
Instrument category		iCON Construction Sensor	iCON Robotic Construction Sensor
Motorization		Motorized (robotic upgrade possible)	Robotic
Direct drives		180°/s	
Tilt compensation range		±3°	
Interfaces		USB-C (2.0), WLAN	
Weight		3.37 kg	
Environmental Specifications	Dust / Water / Humidity	IP54	
	Operating temperature	–20°C to +50°C	
	Charging temperature	0°C to +60°C	
	Storage temperature	–25°C to +70°C	
POWER MANAGEMENT			
Battery		Rechargeable Li-Ion	
Operating time		> 8 h	
Charging time		70% in 1h, 100% in 2h	

* iCS 250 m option required. ** iCS20 requires iCS Robotic option. *** With rough aiming with the camera. Fully autonomous detection from 2 m / 6.56 ft to 25 m / 82 ft.
**** Including tilt compensation with vSphere at H3.

Simple setup

The small but powerful layout sensor and accessories can be carried and operated by one person.

Automated processes ensure that everything is ready for use quickly and reliably.

Simple software

Leica iCON trades supports layout and marking tasks. It is ideal for both simple layout tasks and more complex projects.

The handling is easy to learn, both the device and software can be used immediately.

Simple to use

The visual measurement technology always displays the current state of the job site, ensuring no detail or change is overlooked.

Automated workflows also reduce measurement complexity to a minimum.

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