

Leica Geosystems 3D Laser Scanners

Which 3D laser scanner is right for me?



	ScanStation P50	ScanStation P40	ScanStation P30	RTC360	BLK360
DISTANCE MEASUREMENT SYSTEM					
Maximum range	> 1 km	270 m	120 m	130 m	60 m
Maximum scan rate	1 mio pts/sec	1 mio pts/sec	1 mio pts/sec	2 mio pts/sec	360,000 pts/sec
Selectable sensitivity levels	✓	✓	✗	✗	✗
Resolution settings	User definable	User definable	7 (0.8 mm to 50 mm @ 10 m)	3 (3/6/12 mm @ 10 m)	3 (5/10/20 mm @ 10 m)
Laser class	1	1	1	1	1
Laser wavelength	1550 nm (invisible)	1550 nm (invisible)	1550 nm (invisible)	1550 nm (invisible)	830 nm (invisible)
Tilt sensor	Dual axis compensator	Dual axis compensator	Dual axis compensator	IMU	IMU
IMAGING SYSTEM					
Internal camera	✓	✓	✓	✓	✓
HDR	✓	✓	✓	✓	✓
External camera	Optional	Optional	Optional	✗	✗
IR camera	✗	✗	✗	✗	✓
ENVIRONMENTAL					
Operating temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-5°C to +40°C	+5°C to +40°C
Solid particle/Liquid ingress protection	IP54	IP54	IP54	IP54	IP54
SURVEY/SETUP FUNCTIONALITY					
Quick orientation	✓	✓	✓	✗	✗
Set azimuth	✓	✓	✓	✗	✗
Known backsight	✓	✓	✓	✗	✗
Resection	✓	✓	✓	✗	✗
Auto resection	✓	✓	✓	✗	✗
Traverse	✓	✓	✓	✗	✗
REGISTRATION					
Onsite pre-registration	✗	✗	✗	✓	✓
Cloud to cloud post-processing	✓	✓	✓	✓	✓
Target based post-processing	✓	✓	✓	✓	✓
GENERAL FUNCTIONALITY					
Onboard target acquisition	✓	✓	✓	✗	✗
Check & Adjust	✓	✓	✓	✗	✗
One button scan control	✓	✓	✓	✓	✓
Scan area definition from video or scan	✓	✓	✓	✗	✗
Batch job scanning	✓	✓	✓	✗	✗
Double scan for moving objects removal	✗	✗	✗	✓	✗
Remote control	✓	✓	✓	✓	✓
UPGRADE OPTIONS					
Upgrade options	✗	Upgrade to P50	Upgrade to P40/P50	✗	✗
ADDITIONAL SENSORS					
IMU	✗	✗	✗	✓	✓
GNSS	Optional/External	Optional/External	Optional/External	✓	✗
Altimeter	✗	✗	✗	✓	✗
Compass	✗	✗	✗	✓	✗
Visual Inertial System (VIS)	✗	✗	✗	✓	✗

✓ = Available ✗ = Not available

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- when it has to be right



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