

# Leica Geosystems 3D Laser Scanners

## Which 3D laser scanner is right for me?



	ScanStation P50	ScanStation P40	ScanStation P30	RTC360	BLK360
<b>DISTANCE MEASUREMENT SYSTEM</b>					
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
<b>IMAGING SYSTEM</b>					
Internal camera	✓	✓	✓	✓	✓
HDR	✓	✓	✓	✓	✓
External camera	Optional	Optional	Optional	✗	✗
IR camera	✗	✗	✗	✗	✓
<b>ENVIRONMENTAL</b>					
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
<b>SURVEY/SETUP FUNCTIONALITY</b>					
Quick orientation	✓	✓	✓	✗	✗
Set azimuth	✓	✓	✓	✗	✗
Known backsight	✓	✓	✓	✗	✗
Resection	✓	✓	✓	✗	✗
Auto resection	✓	✓	✓	✗	✗
Traverse	✓	✓	✓	✗	✗
<b>REGISTRATION</b>					
Onsite pre-registration	✗	✗	✗	✓	✓
Cloud to cloud post-processing	✓	✓	✓	✓	✓
Target based post-processing	✓	✓	✓	✓	✓
<b>GENERAL FUNCTIONALITY</b>					
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	✓	✓	✓	✓	✓
<b>UPGRADE OPTIONS</b>					
Upgrade options	✗	Upgrade to P50	Upgrade to P40/P50	✗	✗
<b>ADDITIONAL SENSORS</b>					
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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