

Leica ScanStation Comparison

Which 3D laser scanner is right for me?



ScanStation P50

ScanStation P40

ScanStation P30

ScanStation P16

DISTANCE MEASUREMENT SYSTEM

Maximum range	> 1 km	270 m	120 m	80 m
Maximum scan rate	1 Mio Pts/sec	1 Mio Pts/sec	1 Mio Pts/sec	1 Mio Pts/sec
Selectable sensitivity levels	✓	✓	✗	✗
Resolution settings	User definable	User definable	0.8 mm to 50 mm at 10 m	0.8 mm to 50 mm at 10 m
Laser class	1	1	1	1
Dual axis compensator	✓	✓	✓	✓

IMAGING SYSTEM

Internal camera	✓	✓	✓	✓
HDR	✓	✓	✓	✓
External camera	Optional	Optional	Optional	Optional

ENVIRONMENTAL

Operating temperature	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C	-20°C to +50°C
Solid particle / Liquid ingress protection	IP54	IP54	IP54	IP54

SURVEY / SETUP FUNCTIONALITY

Quick orientation	✓	✓	✓	✗
Set azimuth	✓	✓	✓	✗
Known backsight	✓	✓	✓	✗
Resection	✓	✓	✓	✗
Auto resection	✓	✓	✓	✗
Traverse	✓	✓	✓	✗

GENERAL FUNCTIONALITY

Onboard target acquisition	✓	✓	✓	✗
Check & Adjust	✓	✓	✓	✗
One button scan control	✓	✓	✓	✓
Scan area definition from video or scan	✓	✓	✓	✓
Batch job scanning	✓	✓	✓	✓

UPGRADE OPTIONS

✗

Upgrade to P50

Upgrade to P40

✗

✓ = Available ✗ = Not available

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- when it has to be right

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