## Leica Nova MS50 MultiStation

ANGLE MEASUREMENT	Absolute continuous guadanale	1" (0.3 mgon)
Accuracy <sup>1</sup> Hz and V	Absolute, continuous, quadruple	1" (0.3 mgon)
DISTANCE MEASUREMENT		
Range <sup>2</sup>	Prism (GPR1, GPH1P) <sup>3</sup>	1.5 m to >10000 m
	Non-Prism / Any surface 4	1.5 m to 2000 m
Accuracy / Measurement time	Single (prism) 2.5	1 mm + 1.5 ppm / typ. 1.5 s
	Single (Any surface) <sup>2,4,5,6</sup>	2 mm + 2 ppm / typ. 1.5 s
Laser dot size	at 50 m	8 mm x 20 mm
Measurement technology	Wave Form Digitising	coaxial, visible red laser
SCANNING		
Max. Range <sup>7</sup> / Range noise (1 sigma) <sup>4</sup>	1000 Hz mode	300 m / 1.0 mm at 50 m
	250 Hz mode	400 m / 0.8 mm at 50 m
	62 Hz mode	500 m / 0.6 mm at 50 m
	1 Hz mode	1000 m / 0.6 mm at 50 m
/isualisation of point cloud	Onboard 3D point cloud viewer, including true colour point clouds	
IMAGING		
Overview and telescope camera	Sensor	5 Mpixel CMOS sensor
	Field of view (overview / telescope)	19.4° / 1.5°
	Frame rate	Up to 20 frames per second
MOTORISATION		
Direct drives based on Piezo technology	Rotation speed / Time to Change Face	max. 200 gon (180°) per s / typ. 2.9 s
AUTOMATIC AIMINIC (ATD)		
AUTOMATIC AIMING (ATR) Range ATR mode <sup>2</sup> / Lock mode <sup>2</sup>	Circular prism (GPR1, GPH1P)	1000 m / 800 m
Range ATR Hode- / Lock Hode-	360° prism (GRZ4, GRZ122)	800 m / 600 m
Accuracy <sup>1,2</sup> / Measurement time	ATR angle accuracy Hz, V	1" (0.3 mgon) / typ. 2.5 s
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POWERSEARCH		
Range / Search time <sup>8</sup>	360° prism (GRZ4, GRZ122)	300 m / typ. 5 s
GUIDE LIGHT (EGL)		
Working Range / Accuracy		5-150 m / typ. 5 cm @ 100 m
GENERAL		
Autofocus telescope	Magnification / Focus Range	30 x / 1.7 m to infinity
Display and Keyboard	VGA, colour, touch, both faces	36 keys, illumination
Operation	3x endless drives, 1x Servofocus drive, 2x Auto	
Power management	Exchangeable Lithium-lon battery with	Operating Time 7–9 h
ower management	internal charging capability	Operating Time 7-7 II
Data storage	Internal memory / Memory card	1 GB / SD card 1 GB or 8 GB
Interfaces	RS232, USB, Bluetooth®, WLAN	
Weight	MultiStation incl. battery	7.6 kg
Environmental specifications	Working temperature range	-20°C to +50°C
•	Dust & Water (IEC 60529) / Blowing rain	IP65 / MIL-STD-810G, Method 506.5-