Leica Nova MS60 MultiStation

ANGLE MEASUREMENT		
Accuracy [1] Hz and V	■ Absolute, continuous, quadruple	1" (0.3 mgon)
DISTANCE MEASUREMENT		
Range [2] / Accuracy / Measurement time	■ Prism (GPR1, GPH1P) [2,3,5] ■ Single (any surface) [2,4,5,6]	1.5m to >10,000m / 1mm + 1.5ppm / typ. 1.5s 1.5m to 2,000m / 2mm + 2ppm / typ. 1.5s
Measurement technology	Wave Form Digitising	Coaxial, visible red laser, dot size 8mm x 20mm @ 50m
SCANNING		
Scan Rate / Maximum Scan Speed	30.000 Hz	30,000 points per second
Max. Range [7] / Range noise (1 sigma)	■ 30 kHz mode ■ 8 kHz mode ■ 1 kHz mode ■ 1 Hz mode	60m / 3mm @ 50m 150m / 1.5mm @ 50m 300m / 1.0mm @ 50m 1,000m / 0.6mm @ 50m
Scan data	3D point cloud including true colour, intensity and signal-to-noise data	
Scan duration	■ Full dome scan 400gon x 155gon ■ Band Scan 400gon x 50gon	Resolution 50mm @ 15m, duration 12mins Resolution 12.5mm @ 50m, duration 45mins
IMAGING		
Overview and telescope camera	■ Resolution / Frame rate ■ Field of view (overview / telescope)	5 MPx CMOS / up to 20 fps 19.4° / 1.5°
MOTORISATION		
Direct drives based on Piezo technology	Rotation speed / Time to change face	Maximum 400 gon (360°) per s / typically 2.9s
AUTOMATIC AIMING - ATRplus		
Target aiming range[2] / Target locking range[2]	■ Circular prism (GPR1, GPH1P) ■ 360° prism (GRZ4, GRZ122)	1,500m / 1,000m 1,000m / 1,000m
Accuracy [1,2] / Measurement time	ATRplus angle accuracy Hz, V	1" (0.3 mgon) / typically 2.5s
POWERSEARCH		
Range / Search time	360° prism (GRZ4, GRZ122)	300m / typically 5s
GUIDE LIGHT (EGL)		
Working range / Accuracy		5–150m / typically 5cm @ 100m
GENERAL		
Operating system / Field software	Windows EC7 / Leica Captivate and its apps, supports onsite and realtime decisions	
Processor	TI OMAP4430 1GHz Dual-core ARM® Cortex™- A9 MPCore™	
Autofocus telescope	Magnification / Focus Range	30 x / 1.7m to infinity
AutoHeight Module	■ Distance accuracy ■ Distance range	1.0 mm (1 Sigma) 0.7 m to 2.7 m
Display and keyboard	5" (inch), WVGA, colour, touch, both faces	37 keys, illumination
Operation	3x endless drives, 1x Servofocus drive, 2x Autofocus keys, user-definable SmartKey	
Power management	Exchangeable Lithium-Ion battery	Up to 9h, internal charging capability
Data storage	Internal memory / Memory card	2 GB / SD card 1 GB or 8 GB
Interfaces	RS232, USB, Bluetooth®, WLAN	
Weight	MultiStation including battery	7.7kg
Environmental specifications	■ Working temperature range ■ Dust & Water (IEC 60529) / Blowing rain ■ Humidity	−20°C to +50°C IP65 / MIL-STD-810G, Methods 506.5 I and 507.5 95%, non-condensing