Leica Nova MS60
Data sheet

Engaging software

The Leica Nova MS60 MultiStation comes with the revolutionary Leica Captivate software, turning complex data into the most realistic and workable 3D models. With easy-to-use apps and familiar touch technology, all forms of measured and design data can be viewed in all dimensions. Leica Captivate spans industries and applications with little more than a simple swipe, regardless of whether you work with GNSS, total stations or both.

Infinitely bridging the field to the office

While Leica Captivate captures and models data in the field, Leica Infinity processes the information back in the office. A smooth data transfer ensures the project stays on track. Leica Captivate and Leica Infinity work in conjunction to join previous survey data and edit projects faster and more efficiently.

ACC»

Customer care is only a click away

Through Active Customer Care (ACC), a global network of experienced professionals is only a click away to expertly guide you through any problem. Eliminate delays with superior technical service, finish jobs faster with excellent consultancy support, and avoid costly site revisits with online service to send and receive data directly from the field. Control your costs with a tailored Customer Care Package, giving you peace of mind you're covered anywhere, anytime.

PART OF HEXAGON

- when it has to be **right**

Leica Geosystems

Leica Nova MS60 MultiStation

ANGLE MEASUREMENT		
Accuracy [1] Hz and V	Absolute, continuous, quadruple	1" (0.3 mgon)
DISTANCE MEASUREMENT		
Range [2]	Prism (GPR1, GPH1P) [3] Non-Prism / Any surface [4]	1.5m to >10,000m 1.5m to 2000m
Accuracy / Measurement time	Single (prism) [2,5] Single (any surface) [2,4,5,6]	1mm + 1.5ppm / typically 1.5s 2mm + 2ppm / typically 1.5s
Laser dot size	At 50m	8mm x 20mm
Measurement technology	Wave Form Digitising	Coaxial, visible red laser
SCANNING		
Max. Range [7] / Range noise (1 sigma) [4]	1000 Hz mode 250 Hz mode 62 Hz mode 1 Hz mode	300m / 1.0mm at 50m 400m / 0.8mm at 50m 500m / 0.6mm at 50m 1000m / 0.6mm at 50m
Scan data	3D point cloud including true colour, intensity and signal-to-noise data	
IMAGING		
Overview and telescope camera	Sensor Field of view (overview / telescope) Frame rate	5 megapixel CMOS sensor 19.4° / 1.5° Up to 20 frames per second
MOTORISATION		
Direct drives based on Piezo technology	Rotation speed / Time to change face	Maximum 200 gon (180°) per s / typically 2.9s
AUTOMATIC AIMING - ATRplus		
Target aiming range[2] / Target locking range[2]	Circular prism (GPR1, GPH1P) 360° prism (GRZ4, GRZ122)	1500m / 1000m 1000m / 1000m
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		
Field software	Leica Captivate with apps	
Processor	TI OMAP4430 1GHz Dual-core ARM® Cortex™-A9 MPCore™	Operating system - Windows EC7
Autofocus telescope	Magnification / Focus Range	30 x / 1.7m to infinity
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 with internal charging capability	Operating time 7–9 h
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, Method 506.5-I 95%, non-condensing

[1] Standard deviation ISO 17123-3
[2] Overcast, no haze, visibility about 40km, no heat shimmer
[3] 1.5m to 3000m for 360° prisms (GRZ4, GRZ122)
[4] Object in shade, sky overcast, Kodak Gray Card (90% reflective)
[5] Standard deviation ISO 17123-4
[6] Distance > 500m: Accuracy 4mm + 2ppm, Measurement time typically 4s
[7] Object in shade, sky overcast, uninterrupted visibility, static target object, Kodak Gray Card (90% reflective)

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