



# Trimble MX9

## MOBILE MAPPING SOLUTION



### KEY FEATURES

- ▶ Very high point cloud density with complimentary immersive imagery
- ▶ State of the art Trimble® GNSS and Inertial technology
- ▶ Lightest and most compact premium mobile mapping system
- ▶ Simple installation and browser based operation from any smart device
- ▶ Compatible with existing Trimble software and workflows
- ▶ Enhanced remote support capabilities

Learn more: [www.trimble.com/MX9](http://www.trimble.com/MX9)



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MX9 SYSTEM				
Effective measurement rate <sup>1</sup>	600 kHz	1 MHz	1.5 MHz	2 MHz
Scan speed (selectable)	Up to 500 scans/sec			
Number of laser scanners	2, adjustable in 3 horizontal and 3 vertical positions			

MX9 LASER SCANNER				
Laser class	1, eye-safe			
EFFECTIVE MEASUREMENT RATE <sup>1</sup>	300 kHz	500 kHz	750 kHz	1 MHz
Maximum range, target reflectivity > 80% <sup>2</sup>	420 m	330 m	270 m	235 m
Maximum range, target reflectivity > 10% <sup>2</sup>	150 m	120 m	100 m	85 m
Maximum number of targets per pulse	practically unlimited			
Minimum range	1.2 m			
Accuracy <sup>3</sup> / precision <sup>4</sup>	5 mm / 3 mm			
Field of view	360° "full circle"			

EMBEDDED TRIMBLE GNSS-INERTIAL SYSTEM		
IMU-Options	AP60	AP40
ACCURACY - NO GNSS OUTAGES		
Position (m)	0.02–0.05	0.02–0.05
Velocity (m/s)	0.005	0.005
Roll and Pitch (deg)	0.005	0.015
Heading (deg)	0.015	0.02
ACCURACY - 60 SECOND GNSS OUTAGE		
Position (m)	0.02–0.05	0.10–0.12
Roll and pitch (deg)	0.005	0.02
Heading (deg)	0.015	0.02
ACCESSORIES		
GAMS	yes, optional	
DMI <sup>5</sup>	yes, optional	

CAMERAS				
Camera type	No	Mounting	FoV	Focal length
Spherical camera, 30 MP (6 x 5 MP)	1	fixed	90% of full sphere	4.4 mm
5 MP side looking camera	2	adjustable (in horizontal and vertical positions)	H: 53.1° V: 45.3°	8.5 mm
5 MP backward/downward looking camera	1	fixed	H: 53.1° V: 45.3°	8.5 mm
Capture modes	by distance or by time at 10 fps max.			

ELECTRICAL DATA	
Power supply input voltage	12VDC (12V–16V)
Power consumption (typical)	350 W

SYSTEM COMPONENTS	
Sensor unit	included
Control unit	included
Power unit	included
Roof rack	included, standard cross bars not included
Transport box	included
Field software	TMI, browser-based, no installation necessary
Cable, battery to power unit	5 m
Cable, power unit to control unit	3 m
Cable, control unit to sensor unit	5 m
Data storage	1 set (2 x 2 TBytes SSD, removable)
Control interface	Tablet or Notebook, WiFi or LAN cable, byod

3RD PARTY HARDWARE INTEGRATION OPTIONS	
Synchronization output at sensor unit	1 (NMEA + PPS)

ENVIRONMENTAL CHARACTERISTICS	
Maximum vehicle speed for data acquisition	110 km/h (68 mph)
IP rating	IP64 (sensor unit)
Operating temperature	0 °C to +40 °C
Storage temperature	-20 °C to +50 °C
Relative humidity (operating)	20 % to 80 %
Relative humidity (storage)	20 % to 95 %

PHYSICAL CHARACTERISTICS	
Dimensions sensor unit	0.62 m x 0.55 m x 0.62 m
Weight sensor unit	37 kg
Dimensions roof rack	1.03 m x 0.48 m x 0.28 m
Weight roof rack	18 kg

1 Rounded values, selectable by measurement program.  
 2 Typical values for average conditions.  
 3 Accuracy is the degree of conformity of a measured quantity to its actual (true) value.  
 4 Precision is the degree to which further measurements show the same results.  
 5 One sigma values, with DMI option, post-processed using base station data. Typical performance. Actual results are dependent upon satellite configuration, atmospheric conditions and other environmental effects.

Specifications subject to change without notice.



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