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

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MX9 SYSTEM

Effective measurement rate[1]	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[1]	300 kHz	500 kHz	750 kHz	1 MHz
Maximum range, target reflectivity > 80%[2]	420 m	330 m	270 m	235 m
Maximum range, target reflectivity > 10%[2]	150 m	120 m	100 m	85 m
Maximum number of targets per pulse	practically unlimited			
Minimum range	1.2 m			
Accuracy[3] / precision[4]	5 mm / 3 mm			
Field of view	360° "full circle"			

EMBEDDED TRIMBLE GNSS-INERTIAL SYSTEM

IMU-Options	AP60
ACCURACY - NO GNSS OUTAGES	
Position (m)	0.02–0.05
Velocity (m/s)	0.005
Roll and Pitch (deg)	0.005
Heading (deg)	0.015
ACCURACY - 60 SECOND GNSS OUTAGE	
Position (m)	0.02–0.05
Roll and pitch (deg)	0.005
Heading (deg)	0.015
ACCESSORIES	
GAMS	yes, optional
DMI[5]	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.

Contact your local Trimble Authorized Distribution Partner for more information