



**MX7 Mobile
Imaging System**



Trimble MX7 Mobile Imaging System User Guide

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Trimble MX7 Mobile Imaging System



Specifications

- Product: MX7 Mobile Imaging System
- Supported Devices: Tablet with at least a 10-inch screen and Google Chrome browser
- External Storage Device Recommendation: Samsung Portable SSD T5 2TByte with USB3
- Parts Included:
 - MX7 Roof Rack
 - Roof bars
 - MX7 mounting plate
 - MX7 quick release plate Target point
 - Power box
 - WLAN USB stick
 - Internal data cable
 - Transport case
 - Internal power cable
 - Sensor head

- Tools
- External power cable
- Quick release plate

Product Usage Instructions

Installation and Setup

1. Install the Quick Release Plate on the vehicle using provided screws and tools, along with an appropriate roof bar and the Trimble MX7 Roof Rack.
2. Measure the height of the Quick Release Plate from the ground to the Target Point.
3. Mount the Sensor Head on the Quick Release Plate and secure it by turning the screws upwards.
4. Connect the cables with the Sensor Head.
5. Secure the cables on the rack using cable ties or Velcro fasteners.
6. Place the Power Box securely in the car.
7. Connect the Power Box to the cigarette lighter.
8. Connect the system cables to the Power Box.

Frequently Asked Questions

- **What devices are supported for running the MX7 Mobile Imaging system?**
 - The system is optimized for tablets with at least a 10-inch screen and works best with the Google Chrome browser.
- **What external storage device is recommended for creating data backups?**
 - Trimble recommends using the Samsung Portable SSD T5 2TByte with USB3 as an external storage device.
- **How should I handle radio interference caused by the Trimble MX7 Equipment?**
 - If radio interference occurs, users may be required to take adequate measures to address it, as this equipment is Class A and may cause radio interference in a domestic environment.

Product Information

The Trimble® MX7 Mobile Imaging system is a fast and cost-effective way to manage assets such as bridges, buildings, roads, highways, and power stations, and to document site conditions with geo-referenced images. This document provides an overview of the MX7 Mobile Imaging system and short instructions on how to install and use the system. This document is not meant to replace or be used as a user manual; for more details before first-time use of the system, please refer to the Trimble MX7 User Guide available from <https://geospatial.trimble.com/products-and-solutions/trimble-mx7>. If you have also purchased additional items, for example, a DMI (Distance Measuring Instrument) or the Trimble MX7 Roof Rack, please also refer to the documentation for those products.

Safety information

Before using the MX7 Mobile Imaging system, ensure that you read and understand this document, as well as all equipment and job site safety requirements. For full safety and handling information, refer to the Safety Instructions section in the Trimble MX7 User Guide.

CAUTIONS – The Trimble MX7 system is designed for paved road operations.

- Do not interact with the system control while driving.
- Make sure the Power Box is securely fastened.
- Operate the system only with on-board voltage 12 V DC to 24 V DC (Power board net must be 12 V DC).
- For vehicles equipped with an automatic start-stop mechanism, make sure it is turned off. This automated cut-off of the engine after a longer standstill period to save fuel (e.g., at a red light) will also cut-off the power supply for the Trimble MX7 system. Each cut-off leads to a disconnection to and a restart of the system.

Support

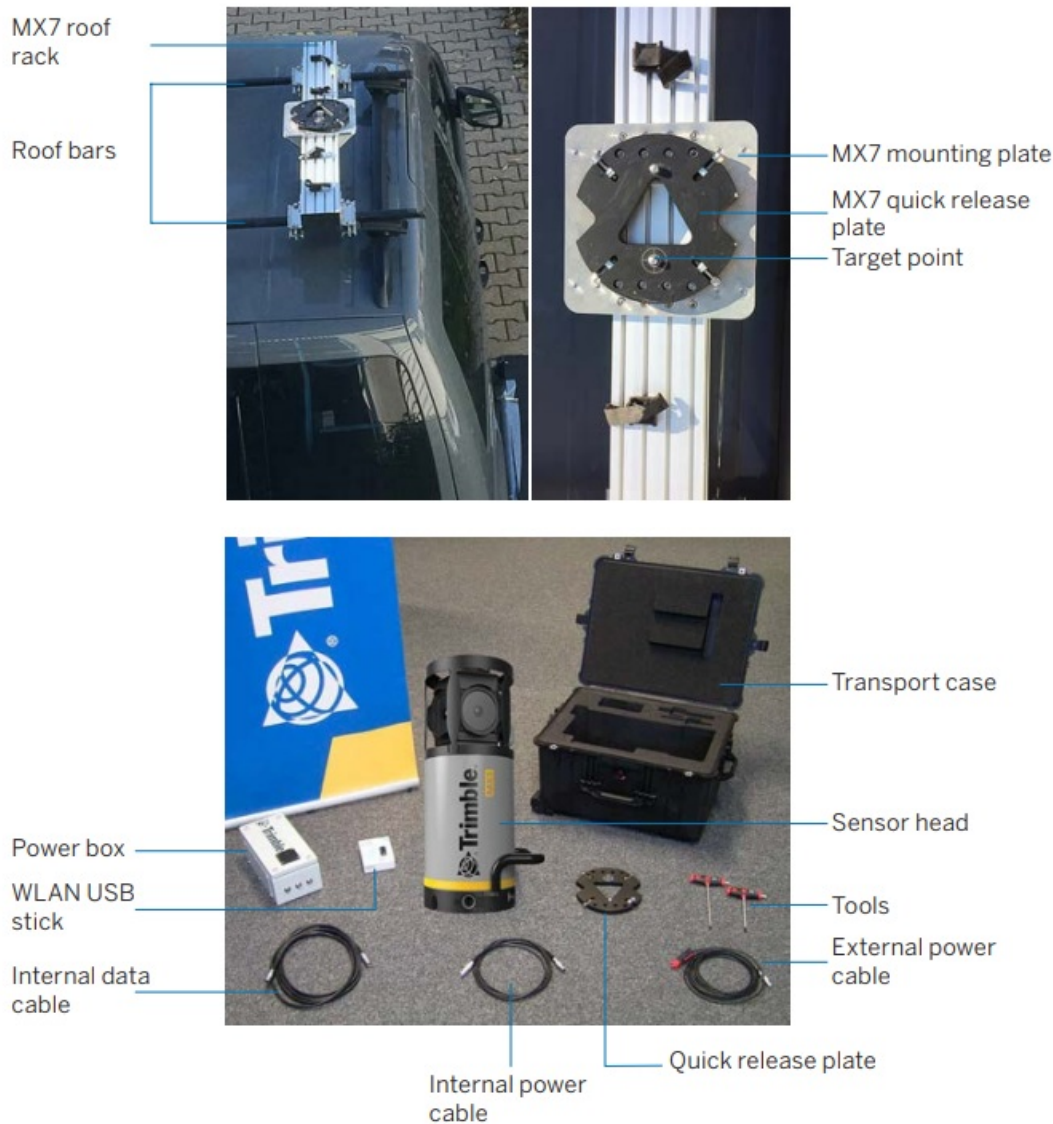
For support, please contact the Customer Support team:

- Email: imaging_support@trimble.com
- Phone:
 - Support Americas: +1-[289-695-4416](tel:289-695-4416)
 - Support APAC: +86-105-603-4179
 - Support Europe & Rest of World: +49-7351-474-0237

Supported devices

To run the MX7 Mobile Imaging system, use a tablet and connect via WLAN. The TMI software is optimized for tablets with at least a 10" screen and with the Google Chrome browser (other browsers have not been fully tested). Creating data backups can be significantly time consuming; Trimble recommends the Samsung Portable SSD T5 2TByte with USB3 as an external storage device.

Parts of the Trimble MX7 Mobile Imaging system



Installation and Getting Started

1. Using the screws and tools provided, install the Quick Release Plate on the vehicle using an appropriate roof bar for the vehicle, and the Trimble MX7 Roof Rack.
2. Measure the height of the Quick Release Plate (ground to Target Point).
3. Mount the Sensor Head on the Quick Release Plate, turn the screws upwards and tighten them securely.
CAUTION – To avoid damage, tighten the screws using appropriate tools as described in the Installation chapter in the Trimble MX7 User Guide.
4. Connect the cables with the Sensor Head.
5. Use cable ties or Velcro fastener to secure the cables on the rack.
6. Place the Power Box securely in the car.
7. Connect the Power Box with the cigarette lighter.
8. Connect the cables of the system with the Power Box.
CAUTIONS – Avoid damage to the cables; do not heavily bend or pinch the cables. Keep in mind the car clearance has changed.
9. Plug the WLAN USB stick into the Power Box.
10. Start the car engine.
11. Press the Start button on the Power Box.
12. Turn on the tablet.

13. Enter the system specific WLAN (Wi-Fi) password found on the Power Box.
 14. Open an internet browser.
 15. Enter the IP Address: 192.168.173.1 / Ethernet cable 192.168.174.1 (for more information on the Ethernet cable usage, refer to the Trimble MX7 User Guide).
- NOTES – Before you start your mission read the manual for special preparation workflow. For smooth operation of the Trimble MX7 system with a car you must turn off the automatic start-stop mechanism.
16. Tap Mission and follow the instructions on the screen.
 17. End your mission.
 18. Download the data by creation of a backup. To speed up backup creation, Trimble recommends that you use an SSD disc, for example, a 'Samsung Portable SSD T5 2TByte USB3'. Other USB drives are significantly slower!

Screen snaps of the TMI-Capture software



Transport cases

Sensor Head case



Power Box case



Compliance Information

Europe

EC Compliance Trimble declares that the MX7 and associated accessories comply with the applicable directives, standards, and regulations.

WARNING: Trimble MX7 Equipment is Class A. This is a class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

We notice to our European Customers. For product recycling instructions and more information, please go to trimble.com/en/our-commitment/responsible-business/productcompliance/environmental-compliance.

United Kingdom

UK Compliance Trimble declares that the Trimble MX7 system and associated accessories comply with the applicable directives, standards, and regulations.

WARNING: Trimble MX7 Equipment is Class A. This is a class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures. USA

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE: Trimble MX7 Equipment is Class A.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense. In order to maintain compliance with FCC regulations shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio & television reception.

Canada

ICES Statement

NOTE: Trimble MX7 Equipment is Class A. This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Australia and New Zealand WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. External USB WLAN stick information Manufacturer: LM Technologies LTD Type designation: LM816-0648

This stick is the only one which is allowed to be used with the MX7 (T001545) system.

Europe

- Frequency band: 2.4 GHz ISM Band
- Max conducted RF output power (2.4 GHz WLAN): 17 ± 2 dBm
- **USA**
- FCC ID: VVX-816-0648

- **Canada**
- ICED ID: 10531A-8160648


Japan

Note: Japanese marking is not placed on the stick due to space limitations.

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- trimble.com

Documents / Resources

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|  | <div> Trimble MX7 Mobile Imaging System [pdf] User Guide </div> <div> MX7, MX7 Mobile Imaging System, MX7, Mobile Imaging System, Imaging System, System </div> |
|--|---|

References

- [Trimble MX7 | Mobile Mapping Systems | Trimble Geospatial](#)
- [Trimble Advanced Industry Solutions & Integrated Technology](#)
- [User Manual](#)

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