

# MX7

## MOBILE IMAGING SYSTEM

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

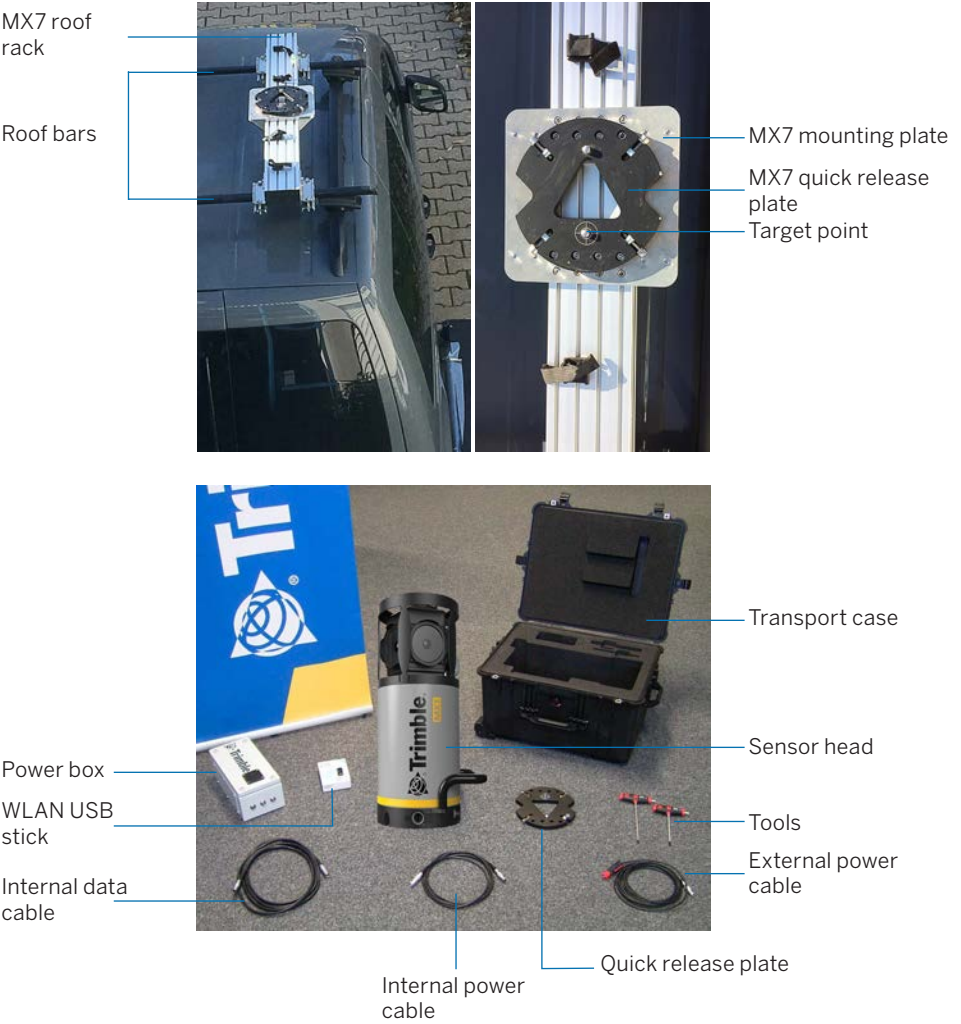


# Supported devices

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**.

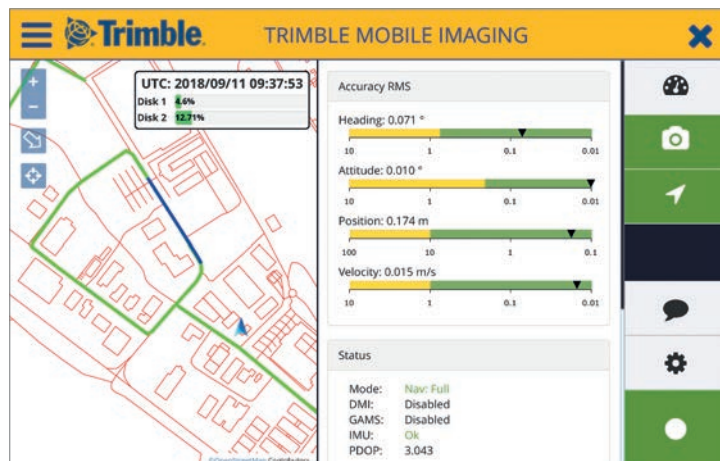
**CAUTIONS** – Avoid damage to the cables; do not heavily bend or pinch the cables. Keep in mind the car clearance has changed.

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.

### WEEE



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](https://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



217-200018

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