

Firmware Update Procedure for RMC-180 MARK II

1. Introduction

The RMC-180 MARK II is a PTZ Camera Controller.

Firmware update is performed by connecting a USB Type-A to USB Type-A cable from the "FW UPGRADE" USB port to the RJ-45 Ethernet port of your Windows laptop.

This firmware update procedure applies to the following product.

Product Model	RMC-180 MARK II
Product Name	PTZ Camera Controller

There is one firmware file

- **Firmware file x1: RMC180MK2_PTC150_1v150.bin**

This document describes how to perform firmware update on a Windows computer.

Screen images from the Windows 10 operating system are used in this document as an example. Images used in this document may differ from the actual screens.

For details on Windows and computer operations, please refer to the instruction manual of your computer.

2. Preparation

2.1 System Requirements

A computer that meets the following requirements is necessary to perform the firmware update procedure.

Laptop or PC	A normal laptop or PC
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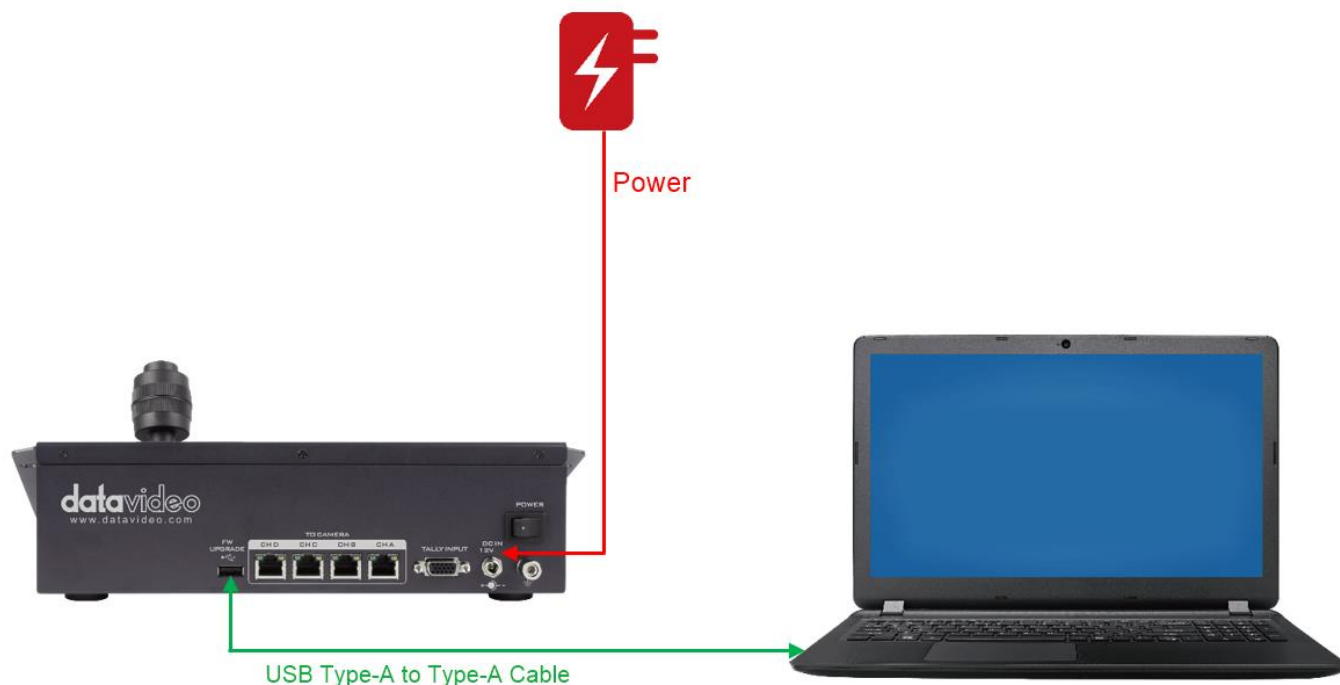
Operation is not guaranteed on all computers that meet the above requirements

2.2 Firmware Update Preparation

The following items are required to perform this firmware update. Please prepare those items in advance before performing the update.

RMC-180 MARK II x 1	The RMC-180 MARK II which is needed for updating the firmware.
12V Power adapter x 1	The 12V power adapter for the RMC-180 MARK II.
Laptop or PC x 1	The laptop or PC which is used to download the latest firmware of the RMC-180 MARK II.
USB Type-A to USB Type-A cable x 1	The USB Type-A to USB Type-A cable which is used to connect the RMC-180 MARK II and your laptop or PC.
Latest Firmware ● RMC180MK2_PTC150_1v150.bin	The latest downloaded firmware file.

2.3 System Connection Diagram




2.4 Checking the Firmware Version

2.4.1. Please turn on the power of the RMC-180 MARK II.

Please turn on the power of the RMC-180 MARK II by the power switch which is located on the rear panel.

2.4.2 Please press the “MENU” button.

After the RMC-180 MARK II is turned on, please press the “MENU” button  which is located on the front panel of the RMC-180 MARK II.

2.4.3 Please rotate the “MENU” button in the clockwise direction.

Please rotate the “MENU” button in the clockwise direction until the “FN11: FIRMWARE VER.” is shown on the display of the RMC-180 MARK II.

2.4.4. Please press the “MENU” button again.

Please press the “MENU” button which is located on the front panel of the RMC-180 MARK II again and then the current firmware version will be shown on the display which is shown in the following diagram.




2.5 Preparing the Firmware

2.5.1. Download the firmware

RMC-180 MARK II Product Page from the Datavideo website:
<https://www.datavideo.com/product/RMC-180%20MARK%20II>

2.5.2. Unzip the firmware

Please unzip the downloaded firmware into the hard disk of your laptop and then you can see the following firmware files for the RMC-180 MARK II.


 RMC180MK2_PTC150_1v150.bin

3. Update

3.1 Updating the Bootloader and Firmware

● For Updating Bootloader (If Needed)

3.1.1. Please turn off the power of the RMC-180 MARK II.

Please turn off the power of the RMC-180 MARK II and then use a USB Type-A to USB Type-A cable to connect from the FW UPGRADE port  which is located on the rear panel of the RMC-180 MARK II to a USB Type-A port of your laptop.

3.1.2. Please press buttons 1, 2, 3, and 4 simultaneously.

Please press buttons 1, 2, 3, and 4 simultaneously.



3.1.3 While buttons 1, 2, 3, and 4 are pressed, please turn on the power.

While buttons 1, 2, 3, and 4 are pressed simultaneously, please turn on the power of the RMC-180 MARK II. If you can not press those buttons and turn on the power at the same time, you need someone's help to turn on the power.

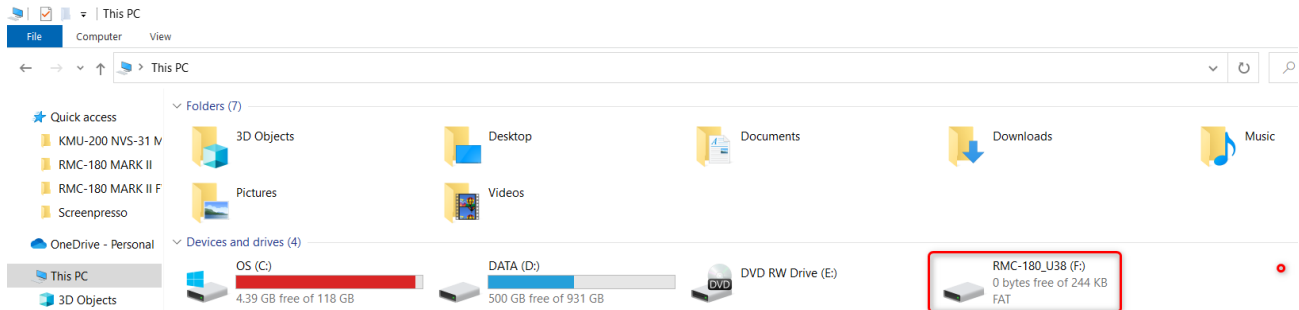
3.1.4. Once the below message is shown on the LCD of the RMC-180 MARK II, you can release all buttons.

Once the message which is shown in the following diagram is shown on the LCD of the RMC-180 MARK II, you can release all buttons.



3.1.5. You can see that there is a removable device (RMC-180_U38) on you laptop.

You can see that there is a removable device (RMC-180_U38) which is shown in the following diagram.



3.1.6. Please double click the “RMC-180_U38” icon to enter the “RMC-180 device.

Please double click the “RMC-180_U38” icon to enter the RMC-180 device and then please delete the

“bootcode.bin”  bootcode.bin .

3.1.7. Please copy the latest bootloader to the RMC-180_U38 removable device.


Please copy the latest bootloader to the RMC-180_U38 removable device and then please reboot the RMC-180 MARK II. After that, the bootloader update is done successfully.

Note: Please pay attention that the bootloader update procedure is needed only when it is necessary to update the new bootloader file for the RMC-180 MARK II device. If there is no need to update the bootloader, please ignore this section and update the latest firmware directly.

● For Updating the latest firmware

3.1.8. Please turn off the power of the RMC-180 MARK II.

Please turn off the power of the RMC-180 MARK II and then use a USB Type-A to USB Type-A cable to

connect from the FW UPGRADE port  which is located on the rear panel of the RMC-180 MARK II to a USB Type-A port of your laptop.

3.1.9. Please press buttons 1, 2, 3, and 4 simultaneously.

Please press buttons 1, 2, 3, and 4 simultaneously.



3.1.10 While buttons 1, 2, 3, and 4 are pressed, please turn on the power.

While buttons 1, 2, 3, and 4 are pressed simultaneously, please turn on the power of the RMC-180 MARK II. If you can not press those buttons and turn on the power at the same time, you need someone's help to turn on the power.

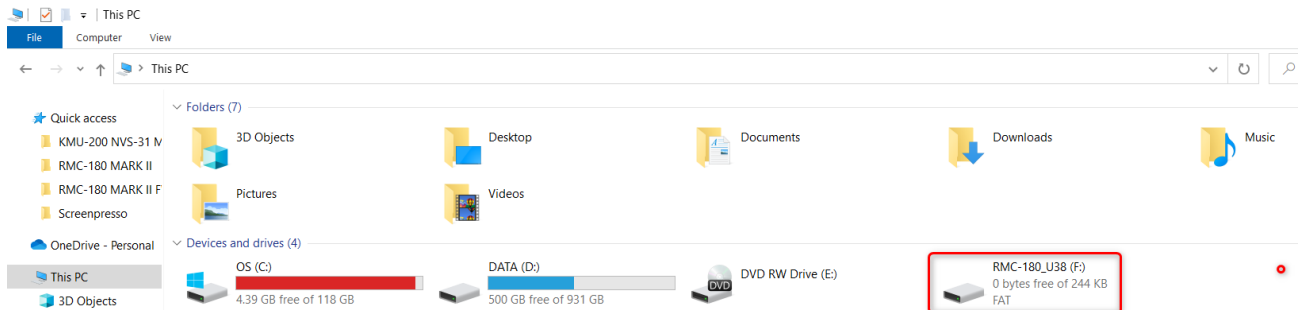
3.1.11. Once the below message is shown on the LCD of the RMC-180 MARK II, you can release all buttons.

Once the message which is shown in the following diagram is shown on the LCD of the RMC-180 MARK II, you can release all buttons.



3.1.12. You can see that there is a removable device (RMC-180_U38) on you laptop.

You can see that there is a removable device (RMC-180_U38) which is shown in the following diagram.




3.1.13. Please double click the “RMC-180_U38” icon to enter the “RMC-180 device.

Please double click the “RMC-180_U38” icon to enter the RMC-180 device and then please delete the

“bootcode.bin”  bootcode.bin .

3.1.14. Please copy the latest firmware to the RMC-180_U38 removable device.

Please copy the latest firmware  RMC180MK2_PTC150_1v150.bin to the RMC-180_U38 removable device and then please reboot the RMC-180 MARK II. After that, the firmware update is done successfully.

3.2 How to Check the Updated Firmware Version

3.2.1. Please refer to “2.4 Checking the Firmware Version” to check the updated firmware version.

Please refer to “2.4 Checking the Firmware Version” to check the updated firmware version. After that, you can see that the latest updated firmware version is shown in the following diagram.

