

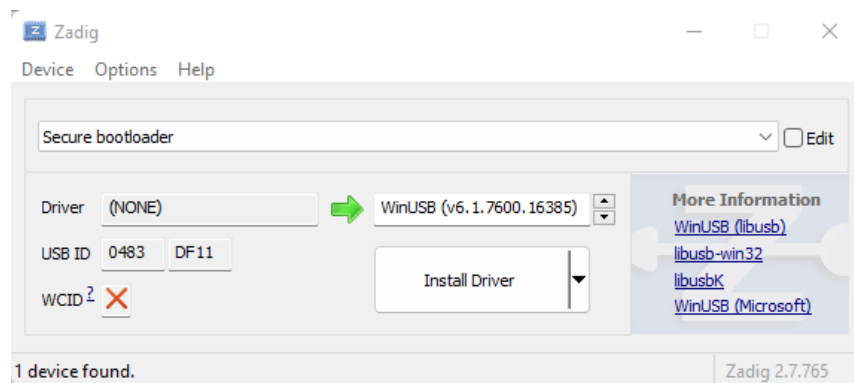
1.KM-7 FIRMWARE UPDATE GUIDE FOR VERSIONS 3.XX

1.1. Starting the KM-7 in firmware update mode

To start the KM-7 in firmware update mode, power on the device, and immediately after power-on, press the UP and DOW buttons simultaneously. After a second or two, the device display will go blank. Then connect the USB cable to a PC, and the KM-7 USB connection should be recognized by the Windows. However, the Windows most probably does not recognize drivers for the KM-7 in this state, and they need to be installed.

1.2. Driver installation

Drivers can be installed by the utility “zadig.” Before drier installation, the previous step must be done, and the KM-7 must be connected to the PC. To install the Driver, please run the “zadig” utility program. Its window should look like this:



If the window looks like the above, press Install Driver, and after installation, close the program window.

If the drop-down menu under the options menu is void, please click in the Options menu and select List All Device. Then in the drop-down menu, select “Secure bootloader.” Finally, if the big button shows Replace Driver, click on it to install the correct Driver; otherwise, you can close the Zadig application.

1.3. Firmware update

To start firmware update, double click on the “update.bat” file to run it. This will start the firmware update. After a successful firmware update, the output window should look like this:

```
C:\WINDOWS\system32\cmd.exe

e:\Programs\FWUP>echo off
Starting device firmware update
dfu-util 0.10

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Warning: Invalid DFU suffix signature
A valid DFU suffix will be required in a future dfu-util release!!!
Match vendor ID from file: 0000
Match product ID from file: 0000
Opening DFU capable USB device...
ID 0483:df11
Run-time device DFU version 0110
Claiming USB DFU Interface...
Setting Alternate Setting #0 ...
Determining device status: state = dfuIDLE, status = 0
dfuIDLE, continuing
DFU mode device DFU version 0110
Device returned transfer size 128
Copying data from PC to DFU device
Download [=====] 100% 636432 bytes
Download done.
state(6) = dfuMANIFEST-SYNC, status(0) = No error condition is present
state(2) = dfuIDLE, status(0) = No error condition is present
Done!
dfu-util 0.10

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Opening DFU capable USB device...
ID 0483:df11
Run-time device DFU version 0110
Claiming USB DFU Interface...
Setting Alternate Setting #0 ...
Determining device status: state = dfuIDLE, status = 0
dfuIDLE, continuing
DFU mode device DFU version 0110
Device returned transfer size 128
End of firmware update done
Press any key to continue . . .
```

You can reconnect the USB cable and rerun the update.bat file if something goes wrong.

1.4. Troubleshooting

If something goes wrong, please send an e-mail to info@satisgeo.com with the screenshot of the updater output.

1.5. How to resolve FLASH Error

To resolve the FLASH Error, please upgrade the KM-7 firmware to version 3.02.r. or higher. After upgrading, the error appears, but the main menu is shown after pressing ESC or ENTER key. Next, select MEMORY -> ERASE and confirm. This will completely erase the data memory and restore storage. After the competition, please power off and power on the KM-7. If the FLASH Error is not resolved, please try to erase the data memory again. If it doesn't help, the data FLASH is most probably faulty. Please note that the KM-7 needs to be powered off and powered on after this operation to function correctly.