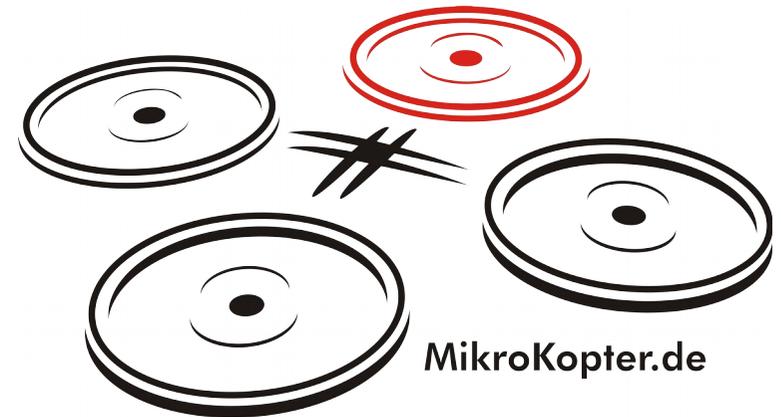


Update MikroKopter FlightCtrl / NaviCtrl

Disclaimer

The contents of our pages were created with great care. For the accuracy, completeness and timeliness of the content is not guaranteed.

It is recommended to use the current software on the MikroKopter. It is only allowed to use the original MikroKopter software. The installation of the software is out at your own risk. Check after an upgrade all settings. We assume no liability for any damage or malfunction of the hardware that may occur after an upgrade
For questions about the update or software, please contact: support@hisystems.de



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Is there a new software for the MikroKopter, you can do an update it easily.

For an update you need:

- the MikroKopter-Hardware
- a MK-USB programming adapter
- latest Software incl. KopterTool

The current software can be downloaded here:

<http://wiki.mikrokoetter.de/Download>

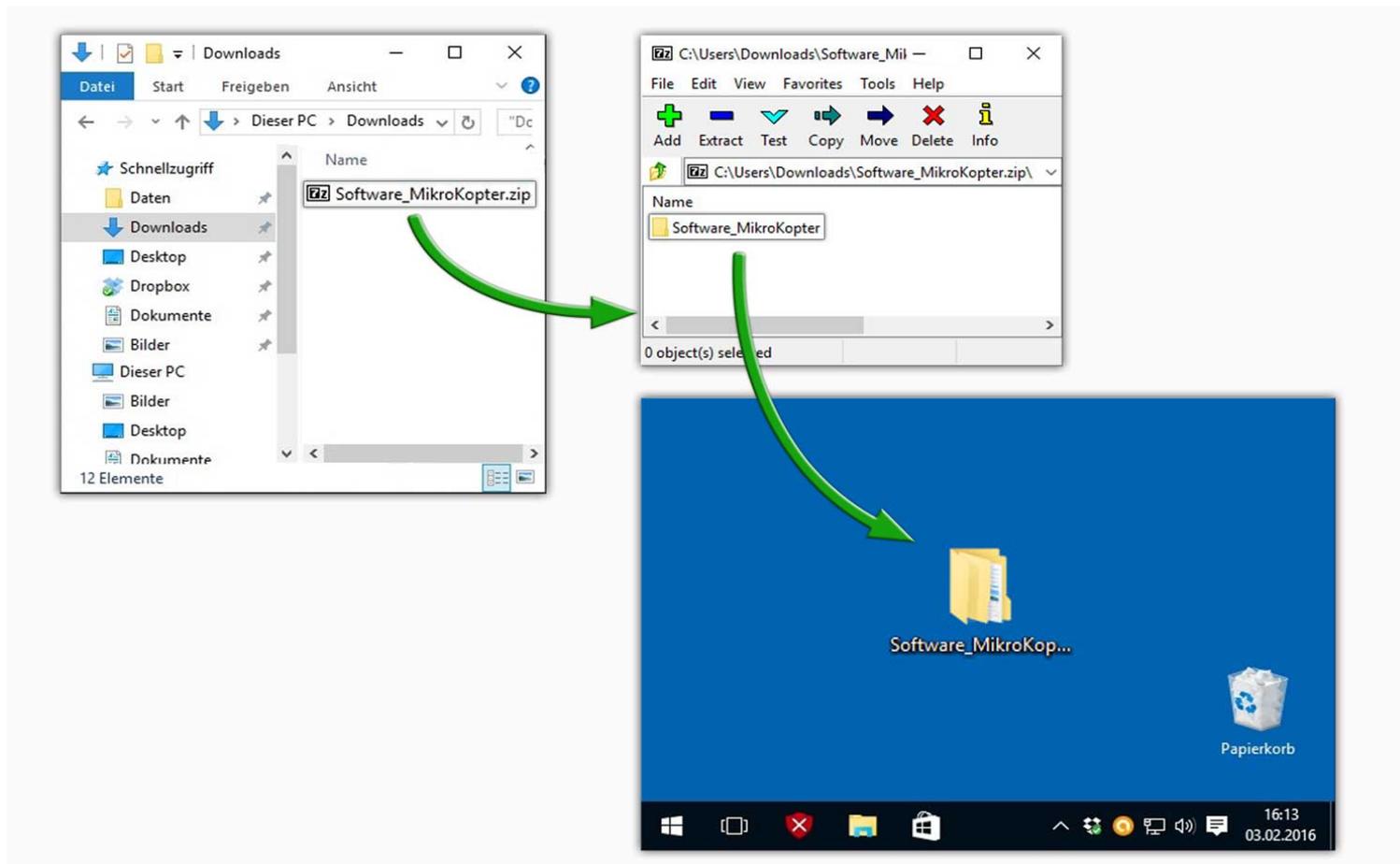
The downloaded file is a compressed file with the name Software_MikroKopter.zip.

In this compressed file you'll find the necessary software and the matching KopterTool. The file "Software_MikroKopter" includes:

- File **Kopter_Tool_V2_Xxx** => contains the KopterTool
- File **PDF** => contains Informations about the channel setting and the update
- File **Setting-Copter** => contains two different settings for your MikroKopter (see also "PDF")
- File **Software** => contains the Software for FlightCtrl / NaviCtrl
- File **Software-Redundant** => contains the redundant Software for Master-/Slave-FlightCtrl / NaviCtrl

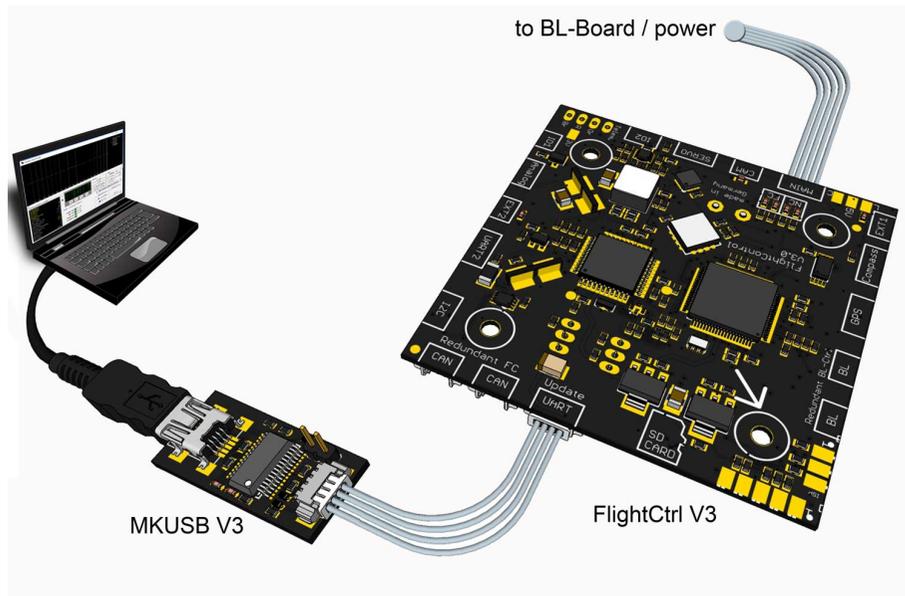
Step 1: Unzip the file

The easiest way is to unpack the file "Software_MikroKopter" to the desktop. To do this make a double click on the .zip file with the left mouse button. Move then the needed files via "drag & drop" to your desktop.

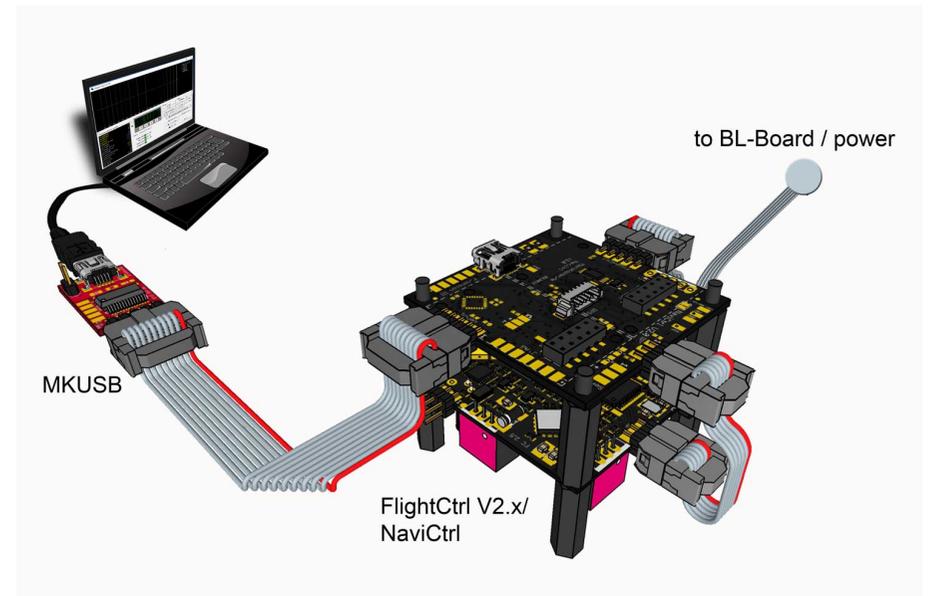


Step 2: connect MKUSB + FlightCtrl

Connect your MKUSB with your Windows-PC and your FlightCtrl.
Do not close the Jumper on your MKUSB. The power supply of the FlightCtrl / NaviCtrl is done via the Copter / Lipo.
Power ON the transmitter and connect the Lipo with your copter.



(example: connection FlightCtrl V3)



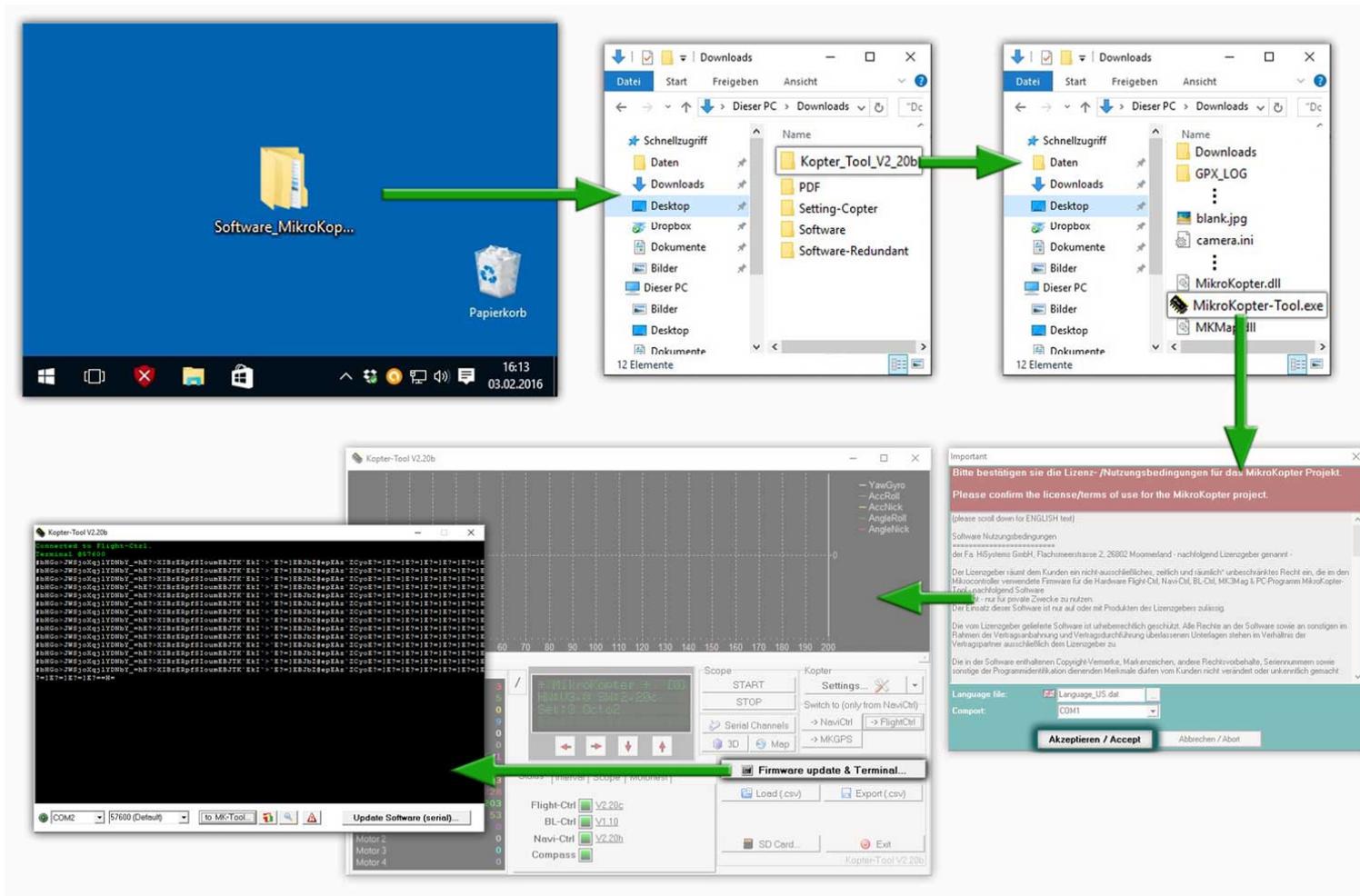
(example: connection FlightCtrl V2.x / NaviCtrl)

Step 3: open the KopterTool

Open the folder "Software_MikroKopter". Here you find the folder KopterTool_V2.XXx.
To open the KopterTool start here the *MikroKopter-Tool.exe*.

If you open the KopterTool for the first time, you have to confirm the license terms .

If you see the mani window of the KopterTool press the button Firmware update & Terminal to open the Terminal window.



Step 4: Software update

In the Terminal window you can now start the update.

The image illustrates the software update process in four stages:

- Update Part1 - FlightCtrl:** A dialog box titled 'Über Bootloader updaten...' is shown with 'Software' as the search location. Two files are listed: 'Flight-Ctrl_MEGA1284p_V2_20c.hex' and 'Navi-Ctrl_STR9_V2_20h.hex'. The 'Dateiname:' field is empty, and the 'Dateityp:' is set to 'HEX-Datei (*.hex;*.hxx)'. The 'Offnen' button is highlighted with a green arrow.
- Update Part2 - NaviCtrl:** A similar dialog box is shown, but with 'Navi-Ctrl_STR9_V2_20h.hex' selected. The 'Offnen' button is again highlighted with a green arrow.
- Terminal Windows:** Two terminal windows show the progress of the update. The first terminal window shows the start of the update for FlightCtrl, including file loading, programming, and bootloading. The second terminal window shows the start of the update for NaviCtrl, including file loading, programming, and bootloading.

This consists of two parts: Update FlightCtrl / update NaviCtrl:

1. Click on the button Update Software (serial)...
2. In the software window choose the first part
- *Flight-Ctrl_MEGA1284p_VX_XXx.hex*
3. Click on the button Open => update starts

The update of the flight control software now runs through the terminal window. Wait until the update is done (white letters).

4. Again click on the button Update Software (serial)...
5. In the software window choose now the second part
- *Navi-Ctrl_STR9_VX_XXx.hex*
6. Click on the button Open => update starts

The update of the NaviCtrl software now runs through the terminal window. Also wait until the update is done (white letters).

IMPORTANT:

The connection between copter and computer must not be interrupted during the update.

After the update is done, you can click on the button to MK-Tool... to go back to the main window.
There you can check the versions numbers.
(with the button NaviCtrl and FlightCtrl you can change the display)

After an update you have to check the functions before you fly.

INFO

If you use an empty microSD-Karte (max.2GB/FAT16) in your FlightCtrl V3.0, the file "settings.ini" is automatically created. In this file additional features are set.

If there is already a file "settings.ini", clear this file after an update.
After you power up the copter a new "settings.ini" is automatically created.

Update error

If something went wrong during the update, the software on the FlightCtrl V3.0 can be deleted. In that case you can mean that there is no connection and nothing works.

But do not panic. You can install the software quick and easy again.

This will help to install the software:

- The Kopter / the FlightCtrl ist:
 - connected via MK-USB with your computer (do **NOT** use a wireless connection!)
 - the battery is fully charged and connected with your copter
- The terminal window is open and the right COM port is set

If you now start the update and if you see maybe now a TIMEOUT do this::

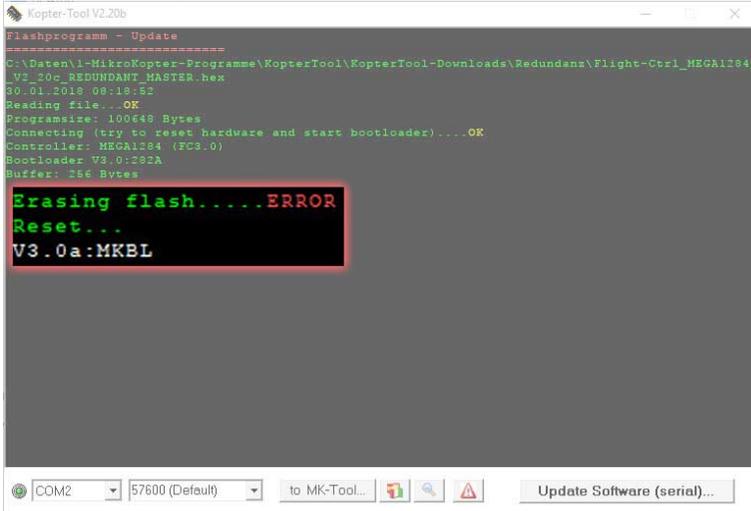
1. Start the update again
2. If there is no **OK** after 3-4 dots (behind "(try to reset Hardware....)" ->
 - open the battery connection and directly
 - close the battery connection
3. Now you should have an OK behind the dots and the update should go further (you may need a few attempts to succeed)

Info:

If the update will not run, check the COM port and the connections.

If there is no way to update the FlightCtrl V3.0 again, please contact the MikroKopter support:

support@hisystems.de



```
Kopter-Tool V2.20b
Flashprogramm - Update
=====
C:\Daten\1-MikroKopter-Programme\KopterTool\KopterTool-Downloads\Redundanz\Flyght-Ctrl_MEGA1284p
[V2_20a_REDUNDANT_MASTER.hex
30.01.2018 08:18:52
Reading file...OK
Programsize: 100648 Bytes
Connecting (try to reset hardware and start bootloader)....OK
Controller: MEGA1284 (FC3.0)
Bootloader V3.0:282A
Buffer: 256 Bytes

Brasing flash.....ERROR
Reset...
V3.0a:MKBL
```

The screenshot shows a terminal window titled "Kopter-Tool V2.20b". The text in the terminal indicates an update process for a flight controller. It shows the file path, the file name, the date and time, and the program size. The connection attempt is successful, but the flashing process fails with the message "Brasing flash.....ERROR". The terminal also shows "Reset..." and "V3.0a:MKBL". At the bottom of the window, there are dropdown menus for "COM2" and "57600 (Default)", a button "to MK-Tool...", and a button "Update Software (serial)...".

