2. Driver installation
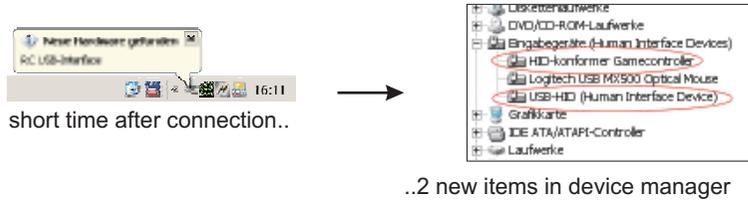
Windows 2000 / XP / Vista:
Connect the Interface with your PC → wait a short-time → LED glows → Switch on your R/C transmitter → LED flashes → finished

short time after connection..

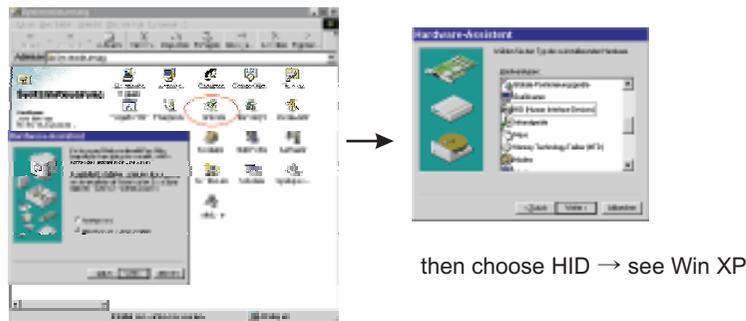..2 new items in device manager

Windows 98 SE / ME:
Connect the USB-Interface with your PC → Windows starts the hardware assistant → select "choose manually" → select "HID-compliant device"

Insert the Windows CD to copy the drivers → LED glows → switch on your R/C transmitter → LED flashes → finished
If the hardware assistant does not start automatically: Start the assistant In Control Panel | Hardware manually → "choose manually"

then choose HID → see Win XP

1. Transmitter settings

Connect your R/C transmitter (in PPM mode, without RF part / unplugged crystal) with the Interface only if it is switched off! The R/C Interface is connected with the buddy box. Thus, the transmitter acts like a slave transmitter. You should set up your transmitter for slave mode and make any settings necessary for slave operation. For further information see the instruction manual of your transmitter(how to switch off the RF part, unplug the crystal oscillator, special settings, ..).

For USB-Interface III:
Detach all servos, motor controllers, devices and the battery from the R/C receiver and only connect the receiver cord. The USB-Interface supplies the receiver with power, no battery may be connected additionally. First connect the receiver with the USB-Interface, then connect the Interface with your PC.
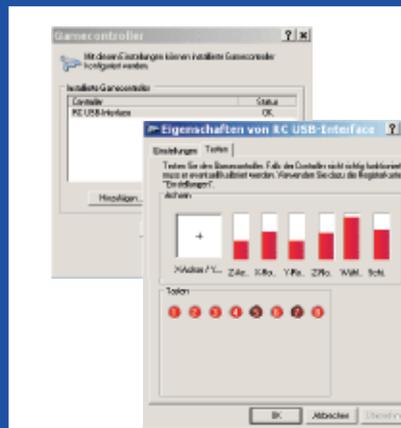
Use Stick Mode "Stick Mode 1" in IntCon for the operation with an receiver. The default setting is "RF G2".

USB-Interface

3. Test

Test in
Control Panel | Game Controller:
do **not** calibrate, test only!

4. Simulator

Connect the Interface with your PC before you attach the R/C transmitter!

FMS: Controls → Analog Control → Joystick Interface → Mapping / Calibration → calibrate

Easyfly: Select joystick → calibrate

Aerofly Pro: Calibrate → Joystick → Properties → calibrate, Controls → Joystick → Properties → assign channels

Realflight G2: Settings → Calibrate device → Device: select Joystick (manually) → calibrate, assign channels in Advanced Settings

Other Simulators:
The USB-Interface can control all simulators (Aerofly, Piccofly, MS Flight Simulator, ..), car simulators and games, that can be controlled by a normal joystick, too.

5. Install IntCon

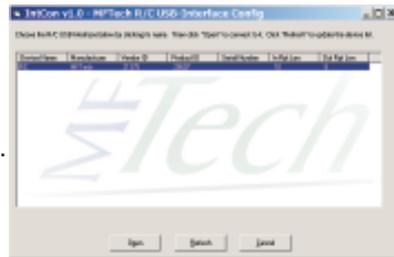**Installation**

1. Download IntCon from http://www.mftech.de/software.htm .
2. Extract / install the content of the archive to C:\Program Files\IntCon\.

Start

1. Connect the USB-Interface with your PC.
2. Double-click on intcon.exe to open IntCon.
3. Mark the USB-Interface in the table (Name RC USB, Vendor MFTech).
4. Click "Open".
5. Configure the USB-Interface.

6. Configure the Interface

Set up joystick buttons automatically:
- 1. button controlled by 5th R/C channel
- 1. button controlled by 3rd R/C channel
- all buttons off

Set up joystick axis automatically:
- Throttle/ aileron right
- Throttle left, ailerons right
- Throttle right, ailerons left
- Throttle/ ailerons left

Set up joytick buttons manually:

Button is triggered by selected R/C channel

Button is triggered if R/C channel exceeds this limit

Set up axis manually:

Axis is controlled by the selected R/C channel

Invert direction of motion of the axis

Set up mixers

Set up buttons manually:

Invert the state of the button

Button can be triggered or is always off

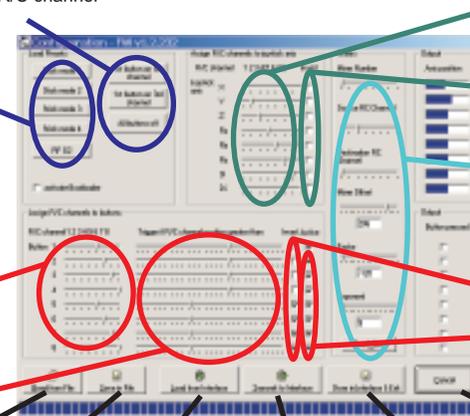Read settings (for transmitter/ simulators) from file

Save settings in file

Read configuration from the RC-Interface
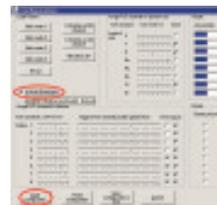
Write configuration to the RC-Interface

store configuration in the RC-Interface

Close window

7. Update firmware

1. Plug the Interface into the PC.
2. Start IntCon → USB-Interface is listed.
3. Double click the Interface, check "Activate Bootloader".
4. Click "Apply" and close the window.
5. If you unplug the Interface and reconnect it again, a new joystick named "Loader" is detected. Windows will install new drivers for it. After a delay of 10 seconds the boot loader disappears and the normal "RC USB" joystick is back again. The boot loader will always start directly before the normal joystick after connecting. If you want to switch off the boot loader (e.g. after a successful firmware update) then uncheck "Activate Bootloader".
6. Now you can update the firmware with the "Firmware..." button. Connect the Interface, do "Erase", then "Program" (and optionally "Verify"), then "Reset". "LED" causes the Interface to toggle the LED. This is just for communication test purpose.

Software for the Interface is located at http://forum.mftech.de

8. Further informationen

Website: http://www.mftech.de

this quickstart: http://www.mftech.de/quickstart_en.pdf

detailed instruction manual: http://www.mftech.de/usb-interface.pdf

MFTech · Ralf Kretschmann · Kaiserstraße 25a · 67722 Winnweiler
info@MFTech.de · www.MFTech.de