

Raspberry Pi Workshop: Tutorial

Step 1: Getting the Materials.

- Download the file Raspbian wheezy
<https://www.raspberrypi.org/downloads/raspbian/>

- Download: putty.exe(for having external Access)

<http://www.chip.de/downloads/>

c1_downloads_auswahl_15801623.html?

t=1454405700&v=3600&s=f721fa0a41b270d8b435ab98d4b5e309

- Download the Win32DiskImager

<http://www.chip.de/downloads/>

c1_downloads_auswahl_46121032.html?

t=1454405758&v=3600&s=4adf7fe4535aa74df9d10e54c58e29d3

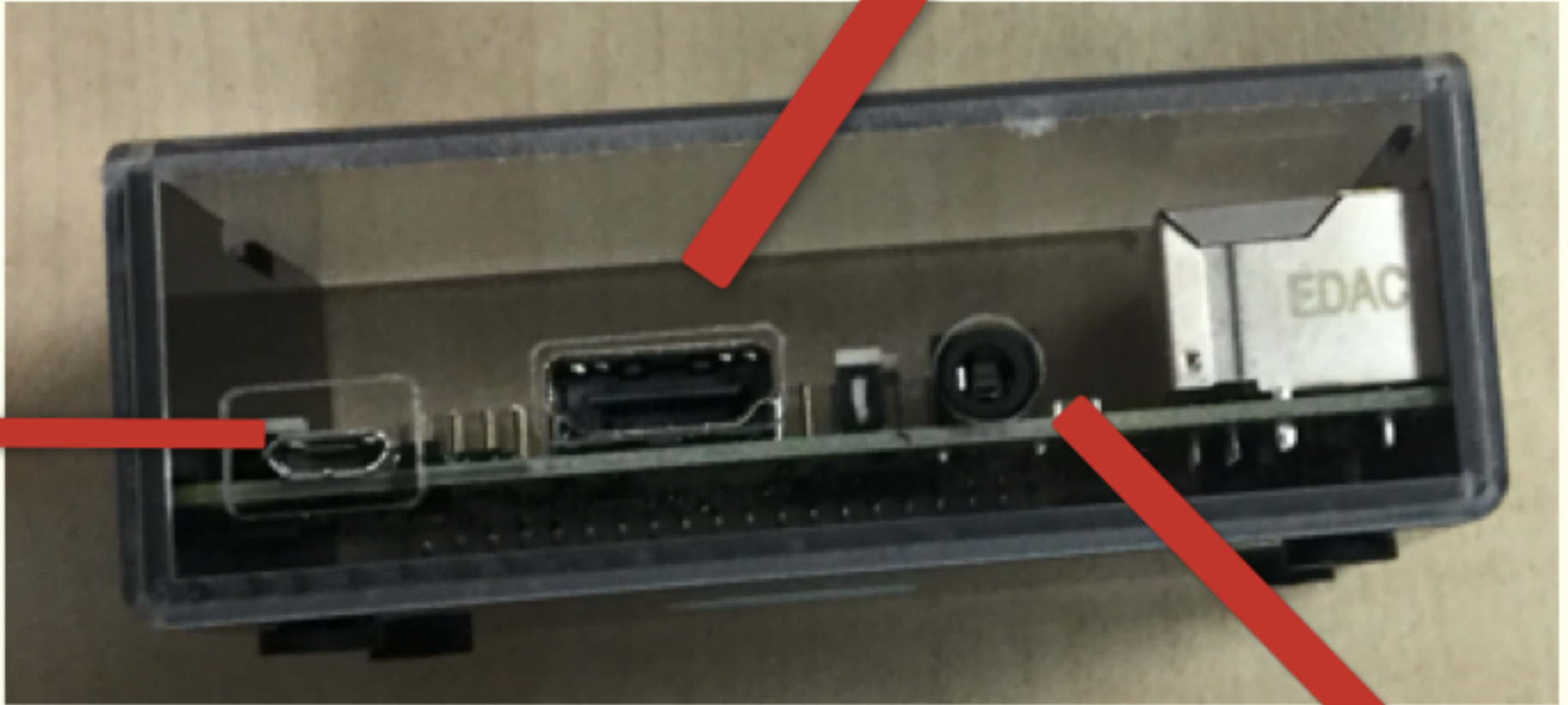
- SD-Card with 8 GB at least



- Raspberry Pi 2 Model B V1.1



HDMI



Power

Audio

Internet
Access

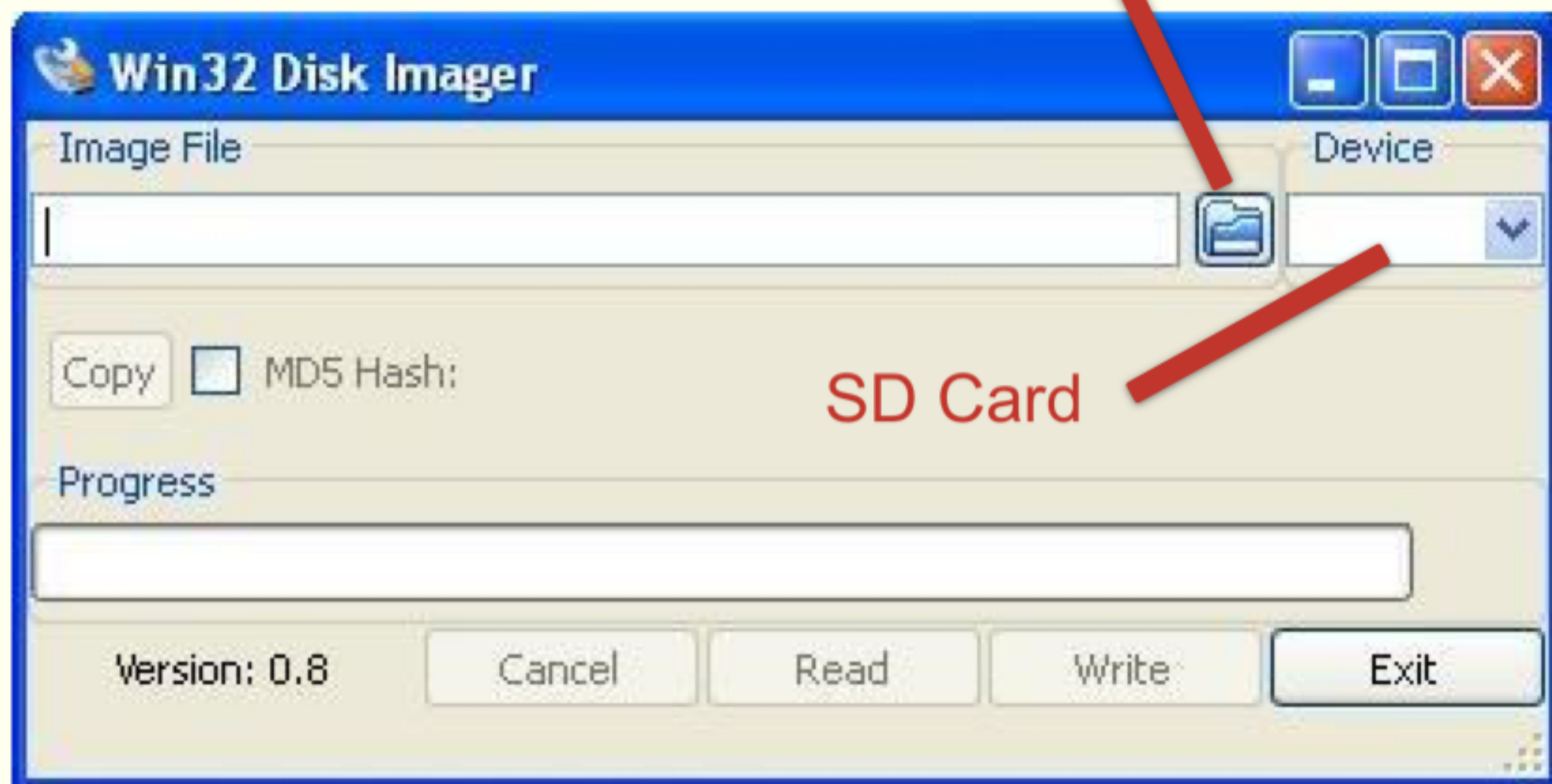


USB Ports

Step 2: transmit Raspbian Wheezy to the SD Card.

- unzip the Raspbian Wheezy file

Open the unzipped Raspbian Wheezy file here



SD Card

- Click on the Button:Write

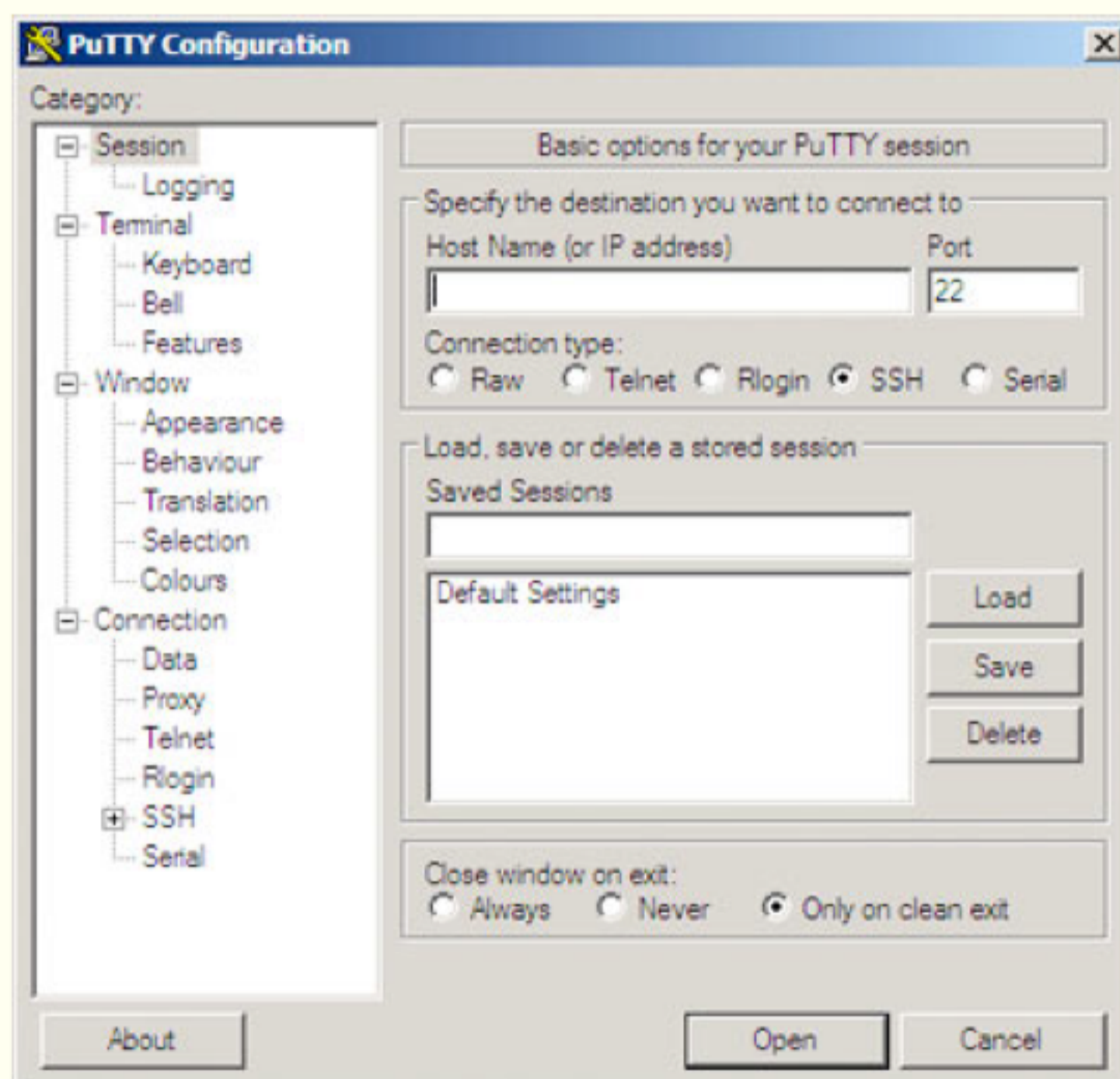
- Insert the SD Card into the Raspberry.

Step 3: Getting Access to the Raspberry Pi

- run the putty exe.
- fill in the IP address of your Raspberry
- Check that the Port that you choose is correct.

22: Measurement Station in Sindelfingen

2222: Measurement Station in Almería



- Login as: pi
- Password: raspberry

```
login as: pi
pi@RASPBERRY-PI's password:
```

Step 4: Configuration

- get Admin rights: `sudo -s`
- Write `raspi-config`
- Select the "expand Filesystem" so as to get the maximum capacity of the SDCard.

```
Raspberry Pi Software Configuration Tool (raspi-config)
Setup Options
1 Expand Filesystem          Ensures that all of the SD card s
2 Change User Password      Change password for the default u
3 Enable Boot to Desktop/Scratch Choose whether to boot into a des
4 Internationalisation Options Set up language and regional sett
5 Enable Camera             Enable this Pi to work with the R
6 Add to Rastrack          Add this Pi to the online Raspber
7 Overclock                Configure overclocking for your P
8 Advanced Options         Configure advanced settings
9 About raspi-config       Information about this configurat

                <Select>                <Finish>
```

- Select finish
- Write `apt-get upgrade & update`