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install MagicMirror on Waveshare

This text is in english to reach more people.

Sources

- the Device at Pi-Shop.ch
- Waveshare Wiki for installation
- Update NodeJS
- SmartBuilds.io MagicMirror with Touchscreen

Base System

Install the Base System via RaspberryPiInstaller

Install Magic Mirror

Download latest MM Package from GitHUB MagicMirrorPage in my case it was Version 2.20.0.
Download and Unpack it with

```
wget
https://github.com/MichMich/MagicMirror/archive/refs/tags/v2.20.0.tar.gz
tar -xvzf v2.20.0.tar.gz
```

but better clone it with git:

```
git clone https://github.com/MichMich/MagicMirror
cd MagicMirror/
npm install --only=prod --omit=dev
cp config/config.js.sample config/config.js
```

start it with `npm run start`

Install MMM-MacAddressScan

To make sure you have all dependencies, issue a

```
npm install ping
npm install sudo
```

as those both were missing in my case.

Install MMM-RemoteControl

https://github.com/Jopyth/MMM-Remote-Control

Install MMM-Modulebar

https://github.com/Snille/MMM-Modulebar/

additional Modules

List of additional Modules: 3rd-party-modules

- SwissCommute Swiss Timetable via Sear.ch
- MagicMover
- WeatherGraph
- SwissLakeTemperature (Zürisee, Greifensee, Genfersee)
- smartTouch
- FlightRadarTracker
- Flights with Map
- News-QR
- OpeningHours-GooglePlaces
- Reddit Ticker
- CyberSecurity News
- WatchDog
- Touch rsp. Touch Wiki

additional Calendars

- Schweizer Feiertage

additional Ideas

- OnScreenMenü
- SmartTouch
- FlightRadarTracker
- CyberSecurityNews

Control Monitor Settings

In order to be able to change the Brightness and Backlight of the Monitor you need to tweak a few things. Idea taken from MagicMirror Forum Post by aprilmaccydee

Enable i2c in boot.ini

Edit `nano /boot/config.txt`
Add: `dtparam=i2c2_iknowwhatimdoing`
and then reboot the Raspberry

Install ddcutil

Then `sudo apt install ddcutil`
Run `sudo ddcutil detect`

You should see an output like:

```
pi@raspberrypi:~ $ sudo ddcutil detect
Display 1
   I2C bus:             /dev/i2c-2
   EDID synopsis:
      Mfg id:           RTK
      Model:            RTK FHD
      Serial number:    [redacted]
      Manufacture year: 2011
      EDID version:     1.3
   VCP version:         2.2
```

get Values

If you do, you can then run:
`sudo ddcutil getvcp 10 to get the brightness`

set Values

`sudo ddcutil setvcp 10 [1-100]`
to set the brightness, where 1-100 is the desired value of the brightness

known Values

Number	Description	Values (default)
10	Brightness	1-100 (20)
12	Contrast	1-100 (50)

Number	Description	Values (default)
14	Color Preset	0x01 = sRGB
16	Red Color Gain	1-100 (50)
18	Green Color Gain	1-100 (50)
20	Horizontal Position (Phase)	0-100 (0)
22	Horizontal Size	unsupported
30	Vertical Position (Phase)	0-100 (0)
32	Vertical Size	unsupported
44	Rotation	unsupported

From:
https://aha-it.ch/wiki/ - **AHa-IT**

Permanent link:
https://aha-it.ch/wiki/lx/pi/mm/waveshare-install?rev=1667835572

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