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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
```

During Install, I see, we need NodeJS Version 14 or newer. On my Raspi there were NodeJS in Version 12, so we have to upgrade NodeJS

```
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](#)

Server & Client Mode

Because the Raspi inside the Waveshare MM is very weak in Terms of Performance, I would try to run it in Server and Client mode.

So we copy over the whole Code to an other Raspi and run it there in Server Mode. This Way the Raspi in the Waveshare MM only needs to display the "Browser" Window.

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)
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=1668007772>

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