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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=1667835584>

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