

iUniker

Pi 2.8 inch Screen Instructions



FOR RASPBERRY PI ZERO / ZERO W

For Raspberry Pi Zero/Zero W

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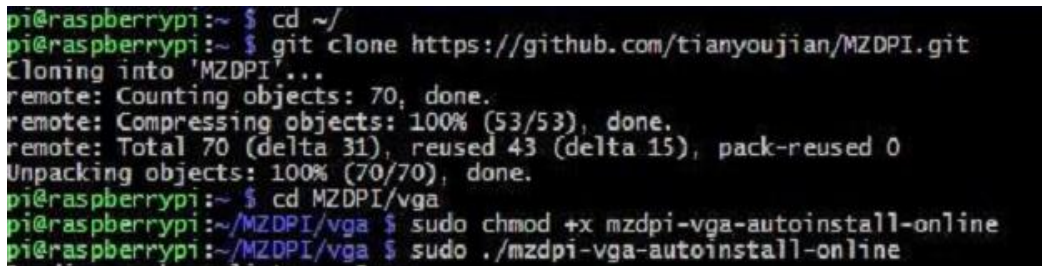
Online Mode: (Keep your Pi connect to Network)

Step1: Download and Install Raspbian or Retropie OS to your SD card.

Step2: Make sure the OS was installed and completed.

Step3: Open Terminal, and type the following command:

```
cd ~/
git clone https://github.com/tianyoujian/MZDPI.git
cd MZDPI/vga
sudo chmod +x mzdpi-vga-autoinstall-online
sudo ./mzdpi-vga-autoinstall-online
```



```
pi@raspberrypi:~ $ cd ~/
pi@raspberrypi:~ $ git clone https://github.com/tianyoujian/MZDPI.git
Cloning into 'MZDPI'...
remote: Counting objects: 70, done.
remote: Compressing objects: 100% (53/53), done.
remote: Total 70 (delta 31), reused 43 (delta 15), pack-reused 0
Unpacking objects: 100% (70/70), done.
pi@raspberrypi:~ $ cd MZDPI/vga
pi@raspberrypi:~/MZDPI/vga $ sudo chmod +x mzdpi-vga-autoinstall-online
pi@raspberrypi:~/MZDPI/vga $ sudo ./mzdpi-vga-autoinstall-online
```

Waiting for the process completed and then, Reboot Pi.

Offline Mode:

Step1: Download and Install Raspbian or Retropie OS to your SD card.

Step2: Make sure the OS was installed and completed.

Step3: Download file named: “mzdpi-vga-autoinstall-offline.rar” from: <http://bit.ly/2NDVcRO> , and then copy it to your sd card and unzip It to : /boot

Step4: Open Terminal, and type the following command:

1. cd /boot
2. ls -l

After these two steps , you will see the 4 files which you unzip.

Step5: sudo chmod +x mzdpi-vga-autoinstall-offline

Step6: sudo ./mzdpi-vga-autoinstall-offline

Waiting for the process completed and then, Reboot Pi.

Notice:

If you want use your hdmi screen to display your Pi after you install the driver, there are two ways to solve it:

1. Uninstall Config:

Open Terminal, and type the following command:

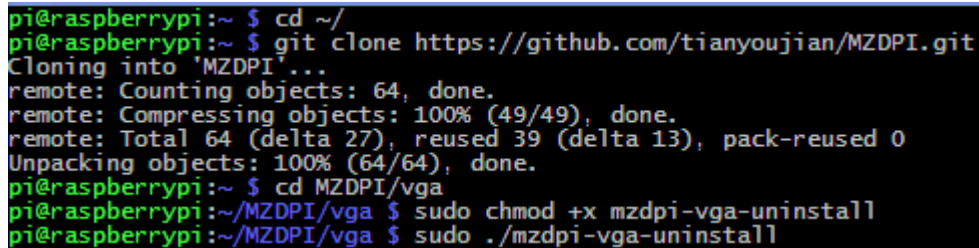
```
cd ~/
```

```
git clone https://github.com/tianyoujian/MZDPI.git
```

```
cd MZDPI/vga
```

```
sudo chmod +x mzdpi-vga-uninstall
```

```
sudo ./ mzdpi-vga-uninstall
```



```
pi@raspberrypi:~ $ cd ~/
pi@raspberrypi:~ $ git clone https://github.com/tianyoujian/MZDPI.git
Cloning into 'MZDPI'...
remote: Counting objects: 64, done.
remote: Compressing objects: 100% (49/49), done.
remote: Total 64 (delta 27), reused 39 (delta 13), pack-reused 0
Unpacking objects: 100% (64/64), done.
pi@raspberrypi:~ $ cd MZDPI/vga
pi@raspberrypi:~/MZDPI/vga $ sudo chmod +x mzdpi-vga-uninstall
pi@raspberrypi:~/MZDPI/vga $ sudo ./mzdpi-vga-uninstall
```

Waiting for the process completed and then, Reboot Pi.

2. Delete:

Just open config, then delete the following:

```
dtparam=spi=on
```

```
dtparam=i2c_arm=off
```

```
dtoverlay=ads7846,penirq=27,swapxy=1,xmin=200,xmax=3850,ymin=200
,ymax=3850
```

```
display_rotate=3
```

```
dtoverlay=mzdpi
```

```
framebuffer_width=640
```

```
framebuffer_height=480
```

```
enable_dpi_lcd=1
```

```
display_default_lcd=1
```

```
dpi_group=2
```

```
dpi_mode=87
```

```
dpi_output_format=0x07f003
```

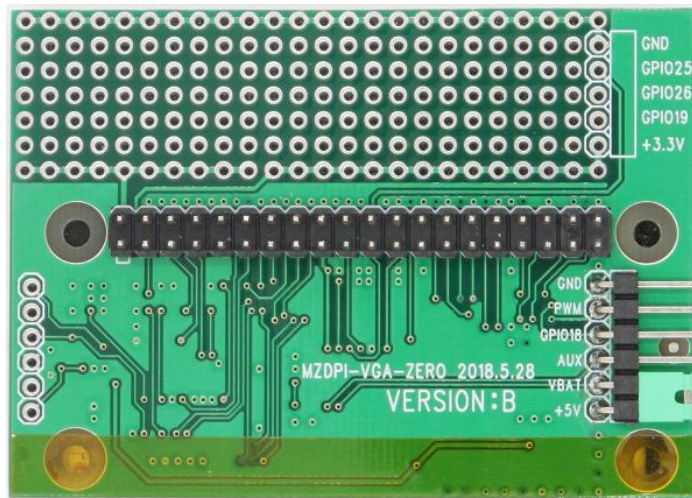
```
hdmi_timings=480 0 41 20 60 640 0 5 10 10 0 0 0 60 0 32000000 1
```

Then save it, insert your sd card to Pi, the hdmi will work.

Warning: When you soldering your Pi to the screen, please pay attention. We tested every screen before send them to you, so if the screen can't work, maybe it's a soldering problem.

If you have any question, please contact iuniker@yeah.net

B Version Screen introduce:

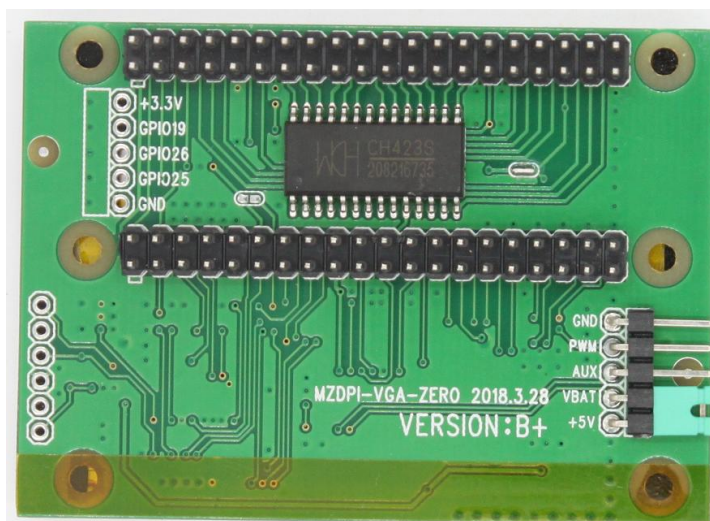


- The B Version 2.8-inch Pi Screen got VBAT and AUX of XPT2046, You Can Use it to Measuring Analog Signal
- You Can Control the Bright of the Screen by Using PWM
- We Provide Holes Plate DIY Area.

Visit: <https://github.com/tianyoujian/MZDPI/tree/master/mzp280v01br>

And then, read the readme file.

B+ Version Screen introduce:



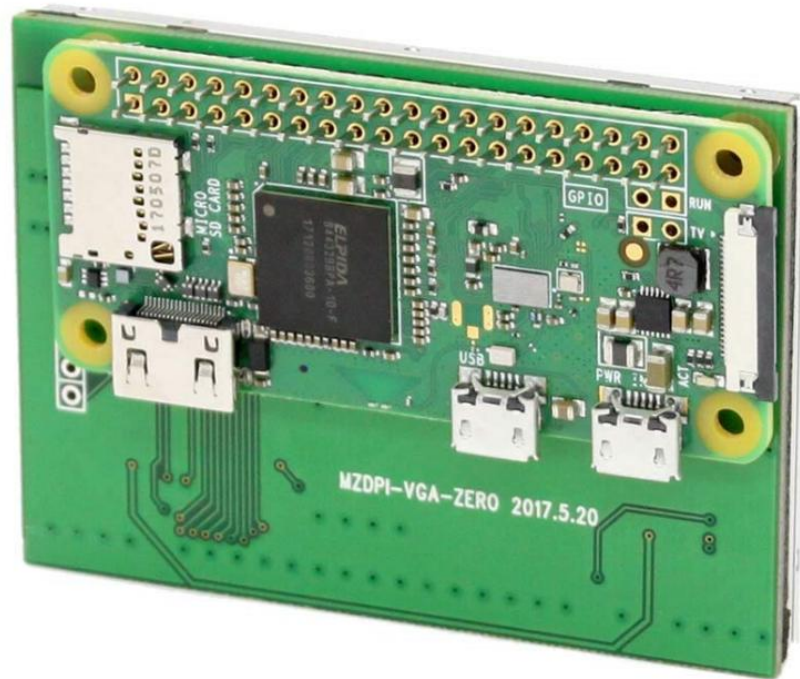
- The B Version 2.8-inch Pi Screen got VBAT and AUX of XPT2046, You Can Use it to Measuring Analog Signal
- You Can Control the Bright of the Screen by Using PWM
- We Provide IO Expanding Board on this Screen (CH4235)

Visit: <https://github.com/tianyoujian/MZDPI/tree/master/mzp280v02br>

And then, read the readme file.

How to Install the Screen to your Pi ?

1. Install the screen to your Pi and solder them directly:



2. Use our male to female header and then solder them:



Note: Please pay attention to the direction.