PWM CONTROL BACKLIGHT

---WAVESHARE LCDS

**Control Pin**

The control pin is P1 of Raspberry Pi.

![Control Pin Image](https://www.waveshare.com)

**4inch HDMI LCD**

Wire the pad to P1 of Raspberry Pi as below:

![4inch HDMI LCD Image](https://www.waveshare.com)

Execute commands on Terminal of Raspbian to adjust the backlight

```bash
gpio -g pwm 18 1024

gpio -g mode 18 pwm  #set the pin as PWM

gpio pwmc 1000

gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```

https://www.waveshare.com
5inch HDMI LCD (B)

Remove the 0Ω resister and wire the pad to P1 of raspberry Pi as below:

Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024

gpio -g mode 18 pwm  #set the pin as PWM

gpio pwmc 1000

gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```
5inch HDMI LCD (G)/5inch HDMI LCD (H)

Remove the 22Ω resistor and wire the pad to P1 of raspberry Pi as below

Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024

gpio -g mode 18 pwm  #set the pin as PWM

gpio pwmc 1000

gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```
7inch HDMI LCD (B)

Connect the pad to P1 of Raspberry Pi as below:

Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024

gpio -g mode 18 pwm  #set the pin as PWM

gpio pwmc 1000

gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```
Connect the pad to P1 of Raspberry Pi as below.

Execute commands on Terminal of Raspbian to adjust the backlight

```bash
gpio -g pwm 18 1024

gpio -g mode 18 pwm  #set the pin as PWM

gpio pwmc 1000

gpio -g pwm 18 X #change the brightness, X ranges 400~500
```
7inch HDMI LCD (H)

Remove the 22Ω resister, wire the pad to P1 of Raspberry Pi as below:

![Image of circuit board with a 22Ω resistor and wire connection to P1 of Raspberry Pi]

Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024

gpio -g mode 18 pwm  #set the pin as PWM

gpio pwmc 1000

gpio -g pwm 18 X #change the brightness, X ranges 0~1024
```
10.1inch HDMI LCD (B)

Remove the 0Ω resister, and wire the pad to P1 of Raspberry Pi

Execute commands on Terminal of Raspbian to adjust the backlight

```
gpio -g pwm 18 1024

gpio -g mode 18 pwm  #set the pin as PWM

gpio pwmc 1000

gpio -g pwm 18 X  #change the brightness, X ranges 0~1024
```