

Neopixel basic colors:



LEFT



CENTER



RIGHT

SCHEME:

Power up

Green left ring lower and upper
Green first led center ring
Light red right ring

Manta M8P wiring

IN	VCC	GND	PIN#	
Left/Center	Pink	Red	Brown	PC6
Right	Yellow	Green	Blue	PA9

Bed heat - lower left ring

Yellow progress sequence during warm up
Red when at temp

Extruder heat - upper left ring

Yellow progress sequence during warm up
Red when at temp

Print progress - center ring

Blue progress sequence

Failure - right ring

Red flashing for errors
Red while extruder and bed are above 50C warning against a power shutdown

1. Install:

```
cd ~  
git clone https://github.com/julianschill/klipper-led_effect.git  
cd klipper-led_effect  
./install-led_effect.sh
```

2. Add to printer.cfg

[\[include led_configuration.cfg\]](#)

[\[neopixel left\]](#)

```
pin: PC6  
chain_count: 32  
initial_red: 0  
initial_green: 0  
initial_blue: 0
```

[\[neopixel right\]](#)

```
pin: PA9  
chain_count: 16  
initial_red: 0  
initial_green: 0.2  
initial_blue: 0.2
```

3. Create led_configuration.cfg:

[\[led_effect panel_idle\]](#)

```
autostart:      true  
frame_rate:     24  
leds:  
  neopixel:left (4,5,12,13)  
layers:  
  breathing 10 0 top (.1,.2,0)
```

[\[led_effect power_idle\]](#)

```
autostart:      true  
frame_rate:     24  
leds:  
  neopixel:right (1,3,5,7,9,11,13,15)  
layers:  
  breathing 10 0 top (0.2,0.05,0.0)
```

[\[led_effect progress_idle\]](#)

```
autostart:      true
frame_rate:     24
leds:
  neopixel:left (17,32)
layers:
  breathing 10 0 top (0.01,.01,.03)
```

[led_effect bed_effects]

```
leds:
  neopixel:left (1-8)
  neopixel:right (2,4,6,8,10,12,14,16)
autostart:      true
frame_rate:     24
heater:         heater_bed
layers:
  heater 50 0 add (.1,0,0)
```

[led_effect extruder]

```
leds:
  neopixel:left (9-16)
  neopixel:right (2,4,6,8,10,12,14,16)
autostart:      true
frame_rate:     24
heater:         extruder
layers:
  heater 50 0 add (.1,0,0)
```

[led_effect progress_bar]

```
leds:
  neopixel:left (18-32)
autostart:      true
frame_rate:     24
layers:
  progress -1 0 add ( 0, 0, .1),( 0, 0.1, 0.6)
```

[led_effect critical_error]

```
leds:
  neopixel:right (2,4,6,8,10,12,14,16)
layers:
  strobe      1 1.5 add (1.0, 1.0, 1.0)
  breathing   2 0 difference (0.95, 0.0, 0.0)
autostart:    false
frame_rate:   24
run_on_error: true
```

