



Product Specification

NAME: Touch screen controller

Model: TS100



Summarization

Touch screen controller is a led controller which is newly independent developed by our company. It adopts capacitive touch screen and LCD technology, making user control lighting in a more direct and convenient way. This controller is used for controlling RGB light, can realize colour modulation, dimming and dynamic mode change and so on.

Feature 1: User can pick color through touch circular color disk to control LED grouped lamp. It is very insensitive and intuitive.

Feature 2: It adds custom output modes, user can at most define a group of 16 units of color output. Color, brightness, hold time and variation time in each unit can be defined by yourself. It can define up to 8 groups of custom color.

Feature 3: User can autonomously choose languages, touch sound tips, and output main switch.

Feature 4: This product can save data when power off, all the status before power off such as user settings and self-defining data can be kept, screen will be off if no touch in 30s, on when you touch again.



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Technical Parameters

Supply voltage: DC12-24V

Working temperature: -20-60 °C

Working Consumption: Max0.36W(12V)-Max0.6W(24V)

Display resolution: 320*240

Controlling method: capacitive touch

Output: Max4A *3CH common anode

Output power: Max144W(12V)-Max288W(24V)

Net weight: 100g

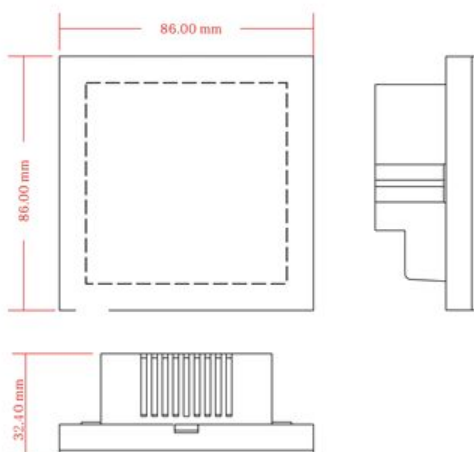
Gross weight: 150g

External Size: 89*86*30 mm

Carton size: 500*275*310mm

PWM frequency: 1 KHZ

External Dimension



Interface Specifications



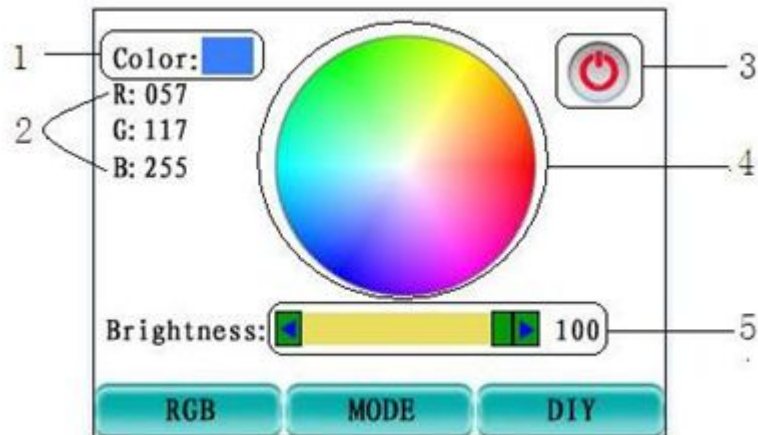


① Blue light negative pole. ② Green light negative pole. ③ Red light negative pole.

④ Positive output interface. ⑤ Power input anode interface. ⑥ Power input cathode interface

Direction for use:


RGB Interface



Operation Instruction:

Notice: Make sure provision of input power for controller, connection of led light and correct wiring.

Click **RGB**, enter into RGB interface, please refer to the image above when doing the following operation.

Firstly ensure the icon in number 3 is , if not, please click here.  is opening master output.

It is to pick color in number 4, the color selected will show in number 1, now the controlled led grouped lamp has brighten, and the color of led light is the same with the one in number. R,G,B value in number 2 corresponds to color in number 1. Scroll bar in number 5 can control the brightness of led light. The variation range is 0-100.


Controls direction:



Color disk, touching it can get color value of current touch point and has RGB color output.



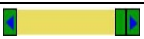
Output control button, clicking it can open or close master

output,  shows current master output is opening.



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 scroll-bar control,sliding it can adjust the output brightness under RGB interface,

the value range is 0-100.

RGB

RGB interface button, click this to enter into RGB interface.

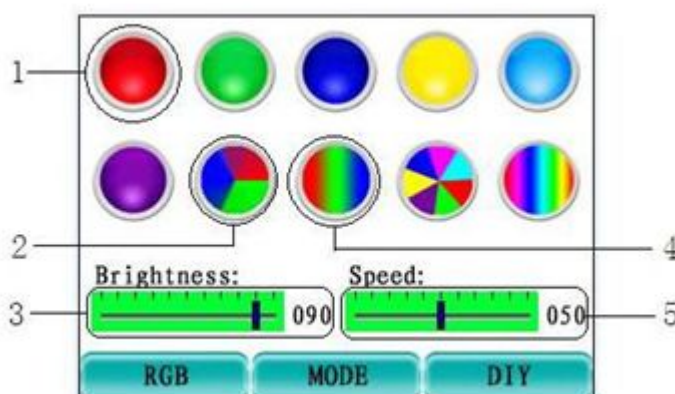
MODE

MODE interface button, click this to enter into MODE interface.

DIY

DIY interface button, click this to enter into DIY interface.

MODE Interface



Operation Instruction:

Notice: Make sure provision of input power for controller, connection of led light, correct wiring and open of master output.(refer to “RGB interface”)

Click **MODE**, enter into MODE interface, please refer to the image above when doing the following operation.

Number 1: Round button,the controlled led light become red, we call it static output.

Number 2: Round button, the controlled led light jump change among red, green and blue. We call it jumping change output.

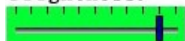
Number 4: Round button, the controlled led light gradual change among red, green and blue. We call it gradual change output.

Number 3: Slider, can adjust the brightness of the controlled led light. Static output, jumping change output, gradual change output all are controlled by it.

Number 5: Slider, can adjust the change speed of the controlled led light.Jumping change output, gradual change output are controlled by it.

Controls direction:

Brightness:



scroll-bar control,sliding it can adjust the brightness of led light, the value range is 0-100.

Speed:



scroll-bar control,sliding it can adjust the change rate of led light, the value range is 0-100.

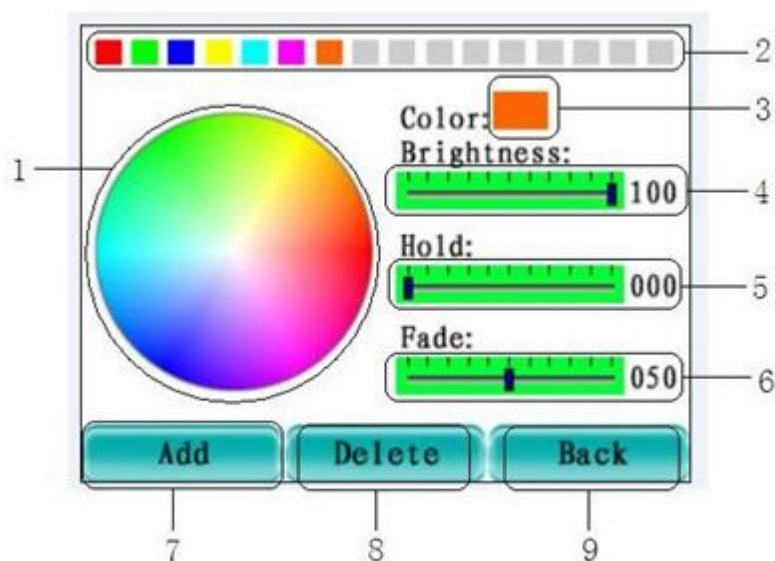


MODE Interface


Controls directions:

| Number | Petting Area | MODE | Setting |
|--------|---|----------------------------|---|
| 1 |  | Static red | Brightness is adjustable |
| 2 |  | Static green | Brightness is adjustable |
| 3 |  | Static blue | Brightness is adjustable |
| 4 |  | Static yellow | Brightness is adjustable |
| 5 |  | Static light blue | Brightness is adjustable |
| 6 |  | Static Purple | Brightness is adjustable |
| 7 |  | Three-color jumping change | Both brightness and rate of change are adjustable |
| 8 |  | Three-color gradual change | Both brightness and rate of change are adjustable |
| 9 |  | Seven-color jumping change | Both brightness and rate of change are adjustable |
| 10 |  | Seven-color gradual change | Both brightness and rate of change are adjustable |

Edit Interface




Operation Instruction:

Click  under DIY interface to enter into Edit interface, if DIY interface shows 4



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grid color is outputting, then fail to enter into Edit interface. Click stop button in DIY interface, then click , can enter into Edit interface, please refer to the image above when doing the following operation.

Number 1: Color disk, color selected show in number 3.

Number 4: Slider, define led brightness.

Number 5: Slider, define hold time when led brightens most.

Number 6: Slider, define gradual rate of change of led.

Number 7: Button, it adds defined color unit to 16 cell(4 grid in DIY interface) in number 2.

Repeat steps above can define several color unit and add to 4 grid in DIY interface.

Touch button in number 9, return to DIY interface from Edit interface.

Controls direction:

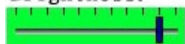


Color disk, touching it can get color value of current touch point. Click



can add this color to custom color group.

Brightness:



scroll-bar control,sliding it can adjust the brightness of led light, the value range is 0-100.

Hold:

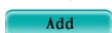


scroll-bar control,sliding it can adjust the hold time when led light brighten most, the value range is 0-100.

Fade:



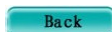
scroll-bar control,sliding it can adjust the change rate of led light, the value range is 0-100.



Add button, click it can add current defined color to 4 grid.



Cancel button, click it can cancel the last one effective color in 4 grid(16 cell).



Back button, click it can return to DIY interface from Edit interface.

DIY Interface



Operation Instruction:

Notice: Make sure provision of input power for controller, connection of led light, correct wiring and open of master output.(refer to “RGB interface”) Click **DIY**, enter into DIY interface, please refer to the image above when doing the following operation.

Look up if number 1 has colorful check, if no it in 4 grid, please refer to “Edit interface”, customize color output you need.

Touch **Play** button in number 7, led lamp group begin to vary according to user-defined color.

Controls direction:



Grid paging button, click it can roll 4 grid up, page range:1-8.



Grid paging button, click it can roll down 4 grid, page range:1-8.



Edit Edit interface button, click it to enter into Edit interface, if current 4 grid color is outputting, then fail to enter into Edit interface. If you want to enter into Edit interface, click stop button in DIY interface, then click edit button can enter into Edit interface.



Delete Delete button, click it can delete one page of 4 grid(16 cell) color, if current 4 grid color is outputting, then fail to delete. If you want to cancel 4 grid color in this page, click stop button in DIY interface, then click delete button.



Play DIY Play button, click it can make custom color begin to output, if current 4 grid has no color, then no custom output.



中文 and **English** language toggle button, click it to change the language between Chinese and English, **中文** shows the current language is English;

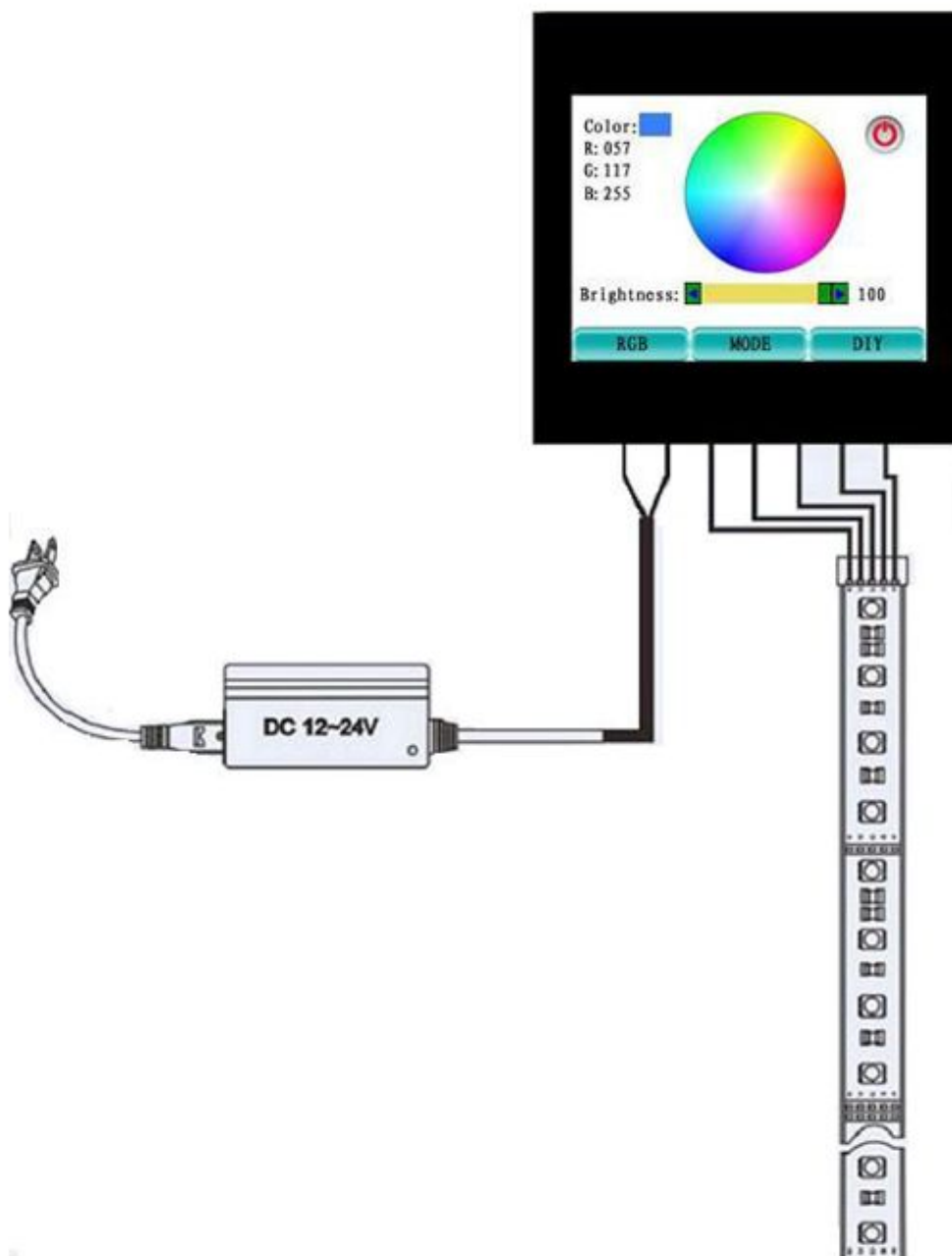


ON and **OFF** Sound toggle button, click it to open or close touch warning tone, **ON** shows warning tone is open.



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Typical Application



Remarks

1. Connect the load wire at first, following by the power wire; **Please ensure short circuit can not occur between connecting wire before you turn on the power;**
2. The supply voltage of controller ranges in DC12-24V, it may burn out the controller once exceed the voltage.