

# T1-2000S Controller instructions

## V3.0



### 一、Features and advantages of controller

- ✓ Single channel output, with a maximum load of 2048 lamps.
- ✓ Support mobile Bluetooth communication, mobile app and wechat applet are controllable.
- ✓ Support multiple selection of built-in programs.
- ✓ The controller provides a physical key for testing functions.
- ✓ Support voltage dc5 ~ 24V full-color lamps.

## 二、Controller parameters



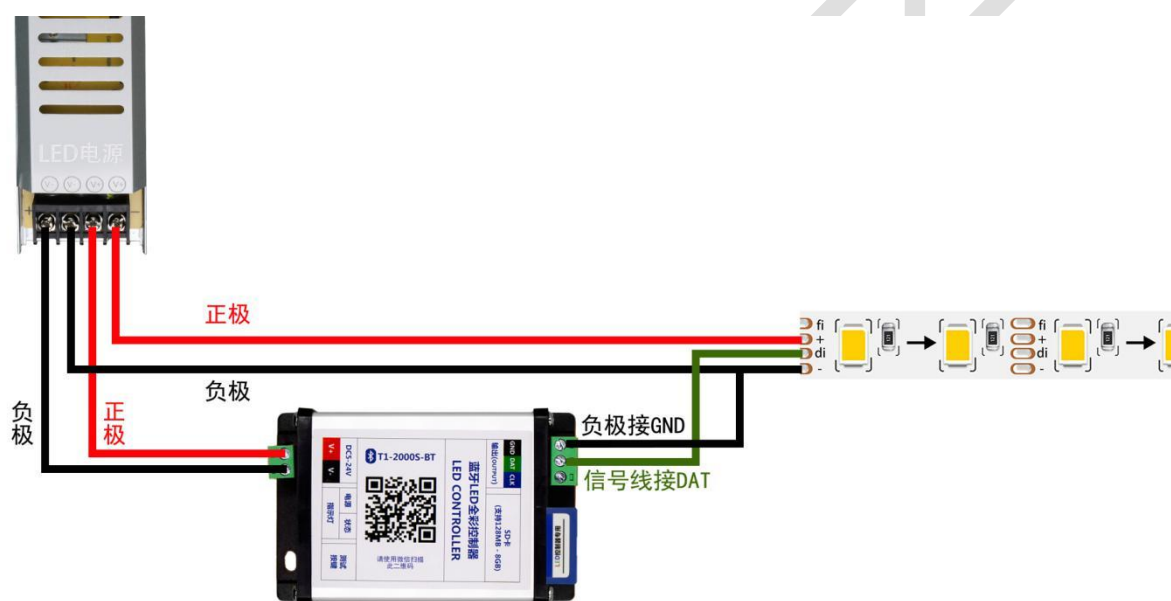
### 2.1、Component description

Silk screen display		Function description
Output connected to LED	CLK	Connected to full color lamp CLK line with clock signal
	DAT	Data cable connected to full color lamp
	GND	Connected to negative pole of full color lamp
DC5-24v grounding power supply	V+	Connected to positive pole of power supply
	V-	Connected to negative pole of power supply
Test key	Entity key	Test effect selection
Indicator lamp	Power Supply	Indicates whether the controller is powered on
	State	The status light flashes when output
SD card (support 128MB-8GB)	SD card slot	SD card slot
QR code	QR code	Wechat applet QR code

## 2.2、Controller parameters

- Working voltage: DC5-24V
- Maximum number of loaded lamps: 2048 points
- Weight: 100G
- Product size: 100mm x 62mm x 25mm
- Output port: 1 Way

## 三、Wiring diagram



## 四、Operating instructions

### 4.1、Test key

There are 8 kinds of test effects. Press the "test button" to switch one, as shown in the following table:

Sequencing effect table

Display content	Effect description	Display content	Effect description
AF. 01	All black	AF. 02	All white
AF. 03	Black and white gradient	AF. 04	All red
AF. 05	All green	AF. 06	All blue
AF. 07	Red, Green and Blue jump	AF. 08	Brush red, green, blue, white and black

## 4.2、Built in effect

When the SD card is not inserted, the controller plays the built-in effect, and the selection of the built-in effect can only be set through the wechat applet. Long press the test button and then power on, you can return to the factory setting, and all built-in effects can be played circularly.

The names of 98 built-in effects are shown in the table below:

ID	Effect	ID	Effect
F-00	Loop play	F-50	Two way 6 color trailing
F-01	All red	F-51	Backward wave interval 2 white dot running
F-02	All green	F-52	Run at two o'clock on purple, yellow and green
F-03	All blue	F-53	Two way 7-color gradient running
F-04	All yellow	F-54	Backward 6-color line segment interval running
F-05	Quan Qing	F-55	7 color jump
F-06	All purple	F-56	Back to the coloring, run at 1 points.
F-07	All white	F-57	Backward combination of line segments and white line running
F-08	Two way 6 color gradual trailing	F-58	Red wave running
F-09	First 6 colors black interval running	F-59	Green wave
F-10	7 color gradient	F-60	Blue wave
F-11	Forward 3 colors running at 1 points.	F-61	Yellow wave
F-12	Forward combination color line segment interval white line segment running	F-62	Cyan wave
F-13	Red tail	F-63	Purple wave
F-14	Green tail	F-64	White wave
F-15	Blue tail	F-65	Brush back in 7 colors
F-16	Yellow tail	F-66	Run back at 1:00 in 6 colors
F-17	Cyan tail	F-67	Forward 6 color line segment white interval running
F-18	Purple tail	F-68	Trailing white interval 2
F-19	White tail	F-69	Forward red and green tail
F-20	Brush 7 colors forward	F-70	Forward green blue 2 color trailing
F-21	Backward 3 colors running at 1 points.	F-71	Forward red and blue tail
F-22	Backward 3 colors running at 1 points.	F-72	Two way 6 color interval 2 white dot trailing
F-23	Forward coloring interval 2 white dot trailing	F-73	Forward yellow and purple, running 2 points each.
F-24	Run forward in red and green waves	F-74	Forward 3-color wave run
F-25	Run forward in green and blue waves	F-75	Backward 3-color wave run

F-26	Run forward in red and blue waves	F-76	Backward 6 color gradual trailing
F-27	Bidirectional 6-color interval 2 white dot trailing	F-77	Forward color combination tail
F-28	Forward red, green and blue, running 2 points each.	F-78	Backward composite color trailing
F-29	Forward red, green and blue 3-color tail	F-79	Forward 7-color wave run
F-30	Forward red, green and blue 3-color tail	F-80	Backward 7-color wave run
F-31	Forward 6-color gradient trailing	F-81	Backward 3 color interval 2 white dot trailing
F-32	Forward combo wave run	F-82	Run forward at 2 o'clock on blue, red and green
F-33	Backward combination color wave	F-83	Forward blue wave interval 2 Green Point running
F-34	Forward 7 color tail	F-84	Backward 6-color white tail
F-35	Backward 7-color tail	F-85	Forward 3 colors wave interval 2 white spots running
F-36	Forward 3-color interval 2 white dot trailing	F-86	Run forward with 2 blue dots between the red waves
F-37	Forward 6 colors running at 1 points.	F-87	Run forward with blue waves and 2 green dots apart
F-38	Run forward with green waves and 2 red dots apart	F-88	Run forward by 1 point in each combination color
F-39	Forward 6-color white tail	F-89	Forward 3 color line segment interval white line running
F-40	Backward 3 color wave interval 2 white spots running	F-90	7 color gradient running forward
F-41	Run forward with 2 green dots between the red waves	F-91	Backward 6-color white head tail
F-42	Run forward with blue waves and 2 red dots apart	F-92	Forward 6 color line segment without gap running
F-43	Run forward with blue waves and 2 yellow dots apart	F-93	Backward white line interval running
F-44	Run forward at 2 o'clock on green, red and blue	F-94	Two way 6-color wave running
F-45	Backward 7-color gradient running	F-95	Forward combined color wave interval 2 white spots running
F-46	Backward 3 color interval white line running	F-96	2 points running forward, yellow and purple.
F-47	Forward 6-color white head tail	F-97	Purple green wave interval 2
F-48	Backward 6-color segment running without interval	F-98	Forward red wave interval 2 Green Point running
F-49	Run forward at intervals of white line segments	F-99	Play the selected effect

## 五、Points for attention

1、 Before copying the file to the SD card, the SD card must be formatted. It needs to be formatted before each copy. Format parameters: file system = FAT32, allocation unit size = default configuration size, or directly click "restore device default value (d)".

2、 The SD card cannot be hot unplugged. You must first disconnect the power supply of the controller and then unplug the SD card.

郑州朗威电子