T-1000S Operating manual

1、System features

1、32—65536 Gray level，Support software Gamma correction。

2、Support the rules and special-shaped handle.

3、can support 2048 pixels。

4、Off-line(SD Card) control, play back content stored in the SD card.

5、store a maximum of 16 programs，copy multiple files to the SD card in order,

after formatting the SD card as "FAT" format.

6、The program must be named in orders . just as ：00_1.led, 01_1.led, 02_1.led.

7、It can use many sets to connect without reset. IC compatible with single and double line, if want to control the lamps with single IC, no need to connect the CLK wire.

Remark：

1. When T-1000S controller control lamps with 32 Gray level,every port load less than 1024 lamps the frame rate can reach 30fps. With 256 Gray level,every port load less than 512 lamps the frame rate can reach 30fps.

2. T-1000S must use the new software LedEdit 2014 V2.44.

2、Support chips：

TM-1803, 1804, 1809, 1812，1829、1903、1904、1912

UCS-1903、1903B 、1909、2903, 2909, 2912, 1912

WS-2811、2801、2803

SM-16711、16716、16726

P9813、6803 etc。

Chip type	Software code&Controller type	Lamps/(MAX)	Note
TM1803, TM1804, TM1809, TM1812	T-1000S-TM1803	2048pixels	With high speed and low speed
TM1829	T-1000S-TM1829	2048pixels	With high speed and low speed
UCS1903, UCS1903B ，UCS1909，UCS1912	T-1000S-UCS1903	2048pixels	With high speed and low speed
UCS2903, UCS2909, UCS2912	T-1000S-UCS2903	2048pixels	With high speed and low speed
UCS3903	T-1000S-UCS1024	2048pixels	
UCS6909，UCS6912，UCS7009，UCS5903	T-1000S-UCS6909	2048pixels	
TA9909	T-1000S-TA9909	2048pixels	With high speed and low speed
MBI6021	T-1000S-MBI6021	2048pixels	
P9813	T-1000S-P9813	2048pixels	
WS2811	T-1000S-WS2811	2048pixels	With high speed and low speed
INK1003	T-1000S-INK1003	2048pixels	With high speed and low speed
TLS3100	T-1000S-TLS3100	2048pixels	With high speed and low speed
SM16711	T-1000S-SM16711	2048pixels	With high speed and low speed

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SM16716	T-1000S-SM16716	2048pixels	
SM16726	T-1000S-SM16726	2048pixels	
LPD6803, D705, 1101	T-1000S-6803	2048pixels	
LPD8806, LPD8809	T-1000S-8806	2048pixels	
LPD1882, LPD1889	T-1000S-1882	2048pixels	With high speed and low speed
LPD6812	T-1000S-6812	2048pixels	With high speed and low speed
LPD6813	T-1000S-6813	2048pixels	
TM1903，TM1904，TM1909，TM1912	T-1000S-TM1903	2048pixels	With high speed and low speed
WS2801, WS2803	T-1000S-WS2801	2048pixels	
D7710, D7720	T-1000S-D7710	2048pixels	

3、Definition of printing：

Buttons	Meaning	
SET	Without SD card use it to choose the Chip type,if with SD card,use it to save file and speed.	
MODE	change the file and mode.	
SPEED+	Speed up	Press speed+ and speed- at the same time the program will play circularly.
SPEED-	Speed down	

DC5V	+5V power input
GND	Power GND input
7. 5-24V	+7.5-24V power input
POWER	Power indicator
ERROR	Error indicator
SD CARD	SD card slot

TTL Signal		485 Signal	
CLK	Clock signal	B	Signal A
DAT	Data signal	A	Signal B
GND	Signal ground	GND	Signal ground

NOTE：For the TTL(SPI) signal, the controller signal ground must connect to the LED ground directly.

4、Mode of connection
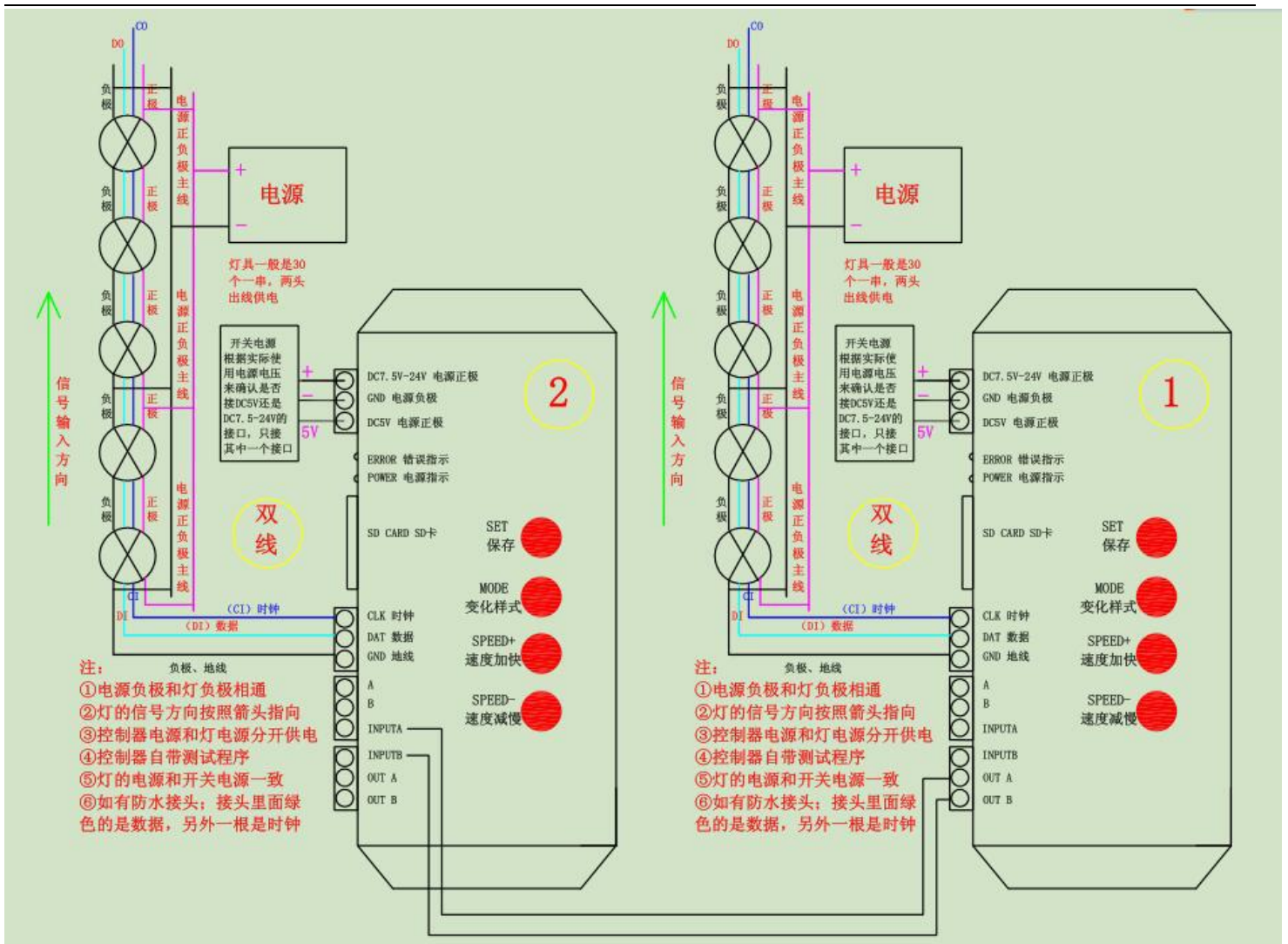
1. It can use single one or many sets to connect to realize synchronization.

2. One output port，at most to load 1024/2048 pixels.

3. There are test programs in the controller,can test it without SD card.Buttom "SET"is used to choose the chip type and save the file.

4. When the chip for LED is single line chip just with data, then just need to be connected with DAT and GND of the controller. If the chip for LED is double line chip with DAT and CLK, then need to be connected with DAT, CLK, and GND of the controller.

5. If you need to use RS485 signal you need to connect controller A interface with LED lamps A, controller B interface with LED lamps B.

6. If the work voltage of the controller same as the lamps,they can connect to the same power supply,otherwise,must use two different power supplies.

7. When make program in the LedEdit software, select control model like this: T – 1000S-CHIP TYPE.

5、Name of the program：

The rule of how to name the programs：
The name for NO.1 controller：

"00_1.led" --------- NO.1 program for No.1 controller

"01_1.led" --------- NO.2 program for No.1 controller

"02_1.led" --------- NO.3 program for No.1 controller

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"15_1.led" --------- NO.16 program for No.1 controller
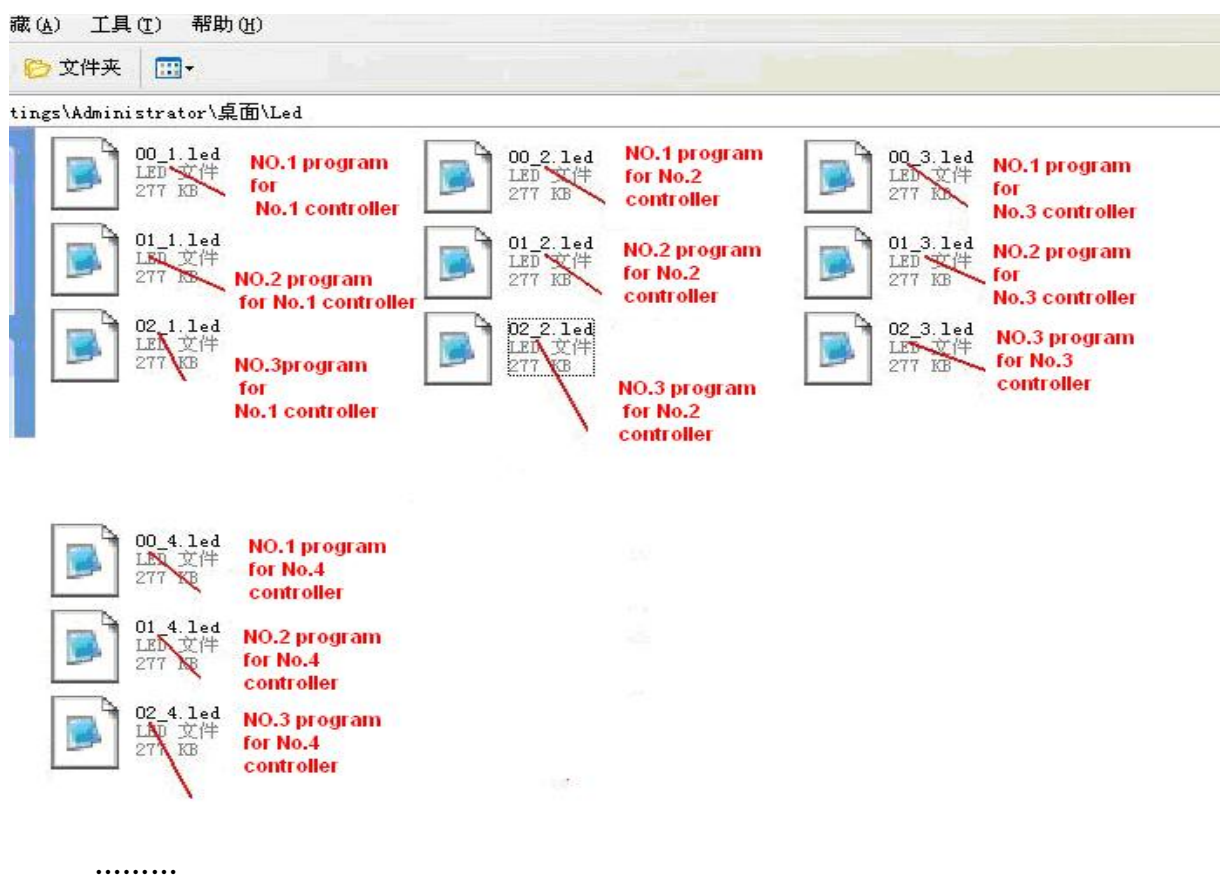
The name for NO.2 controller：

"00_2.led" --------- NO.1 program for No.2 controller

"01_2.led" --------- NO.2 program for No.2 controller

"02_2.led" --------- NO.3 program for No.2 controller

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"15_2.led" --------- NO.16program for No.2 controller

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6、**Special parameters：**

Memory card：

Type：SD card（suggest using high-speed SD card）

Capacity：128MB—8GB

Format：FAT

Store file：*.led

Physical parameters：

Working temperature：-20℃—85℃

Working voltage：DC5V/7.5-24V

Working power：8W

Size：144mm*67mm*25mm

Signal port：3pin connect port

7、 Trouble shooting

Question 1：After power, the T-1000S ERROR indicator has been flashing without display output

answer：The ERROR indicator has been flashing means the controller did not read the card correctly, possible problems:

①SD card is empty, with no effect file.

②The effect file in the SD card and the controller model are not match, please choose correct controller model in LedEdit and then re-create the effect file *led.

③SD card did not format to FAT before copy effect files.

④Please check the supply power voltage, the controller can be individually powered to exclude power reasons

⑤Changing the SD card and then test to exclude the possibility of a bad SD card

Question 2: The controller is powered on, the indicator is normal, but the lamps have no effect change

Answer: The reasons for this are as follows:

① Check if the lighting′s signal line and the controller connected correctly

② If the TTL signal is received, the lamp and the controller must be common ground, that means connect the lighting′s and the controller′s ground together

③ Check if the model chose during making display files on the SD card match the chips used in the lighting