Smart Pixel lights control system

Smart controller Instruction



For:

- Smart controller SW-201 / SW-301 / SW-301U
- Multi-function controller SY-208 / SY-302G / SY-324 SY-328 / SY-408 / SY-418 / BL-321
- · LoRa system controller LM-100 / LR-101
- Please read this instruction manual carefully before use

Tips:

Warm notice:

- 1, in order to prevent fire or electric shock accident, please place the controller in Do not expose to moisture in well-ventilated areas.
- 2. Turn off the controller before inserting or removing a signal cable or SD card Source, so as not to burn the controller internal chip or SD card.
- 3, Please avoid the SD card inserted in the controller for long-distance transportation It is easy to damage the SD card and SD card holder.

Drive Pixel Quantity

Signal	SPI (TTL)	Smandard DMX512	Extend DMX512
Pixel	1024	168	336

Controllers introduction

Smart controllers

SW-201





- (1) USB charging port (6) Control key
- (2) Working light
- 7 DC12-24V power input port
- (3) SD card port (4) Speed display
- (8) DC12-24V power output interface Output interface
- (5) Mode display

SW-301 / SW-301U



Read more

- (1) TTL signal control ports
- (2) RS485 signal light ports
- (3) Speed display
- (4) Mode display
- (5) Control key
- 6 SD card interface
- 7 Power switch

Multi-function controllers

SY-208







- Power interface
- 2 Power switch
- Output port
- 4 SD Card interface
- (7) Control key

 - (9) Mode display





- (1) GPS antenna interface
- 2 Output port
- 3 Speed display
- 4 Mode display
- (5) Control key

- (8) Power interface





- (5) DMX control output instructions
- 6 DMX control input
- (8) Speed display

SY-302G



- Read more
- 6 SD card port
- 7 Power switch
- 8 Power interface 9 4G antenna interface(reserved)

SY-324





Read more

- Power interface
- Output port 3 LCD display
- (4) Control key

Power interface

Output port

3 Power switch

4 SD card port

(5) DMX control output

- (5) Audio input interface
- 6 Audio output interface
- (7) Microphone input interface
- 8 DMX input interface
- 9 DMX output interface
- (10) Power switch

SY-328









- 6 DMX control input
- (7) Audio output interface
- (8) Panel port (Reserved) 9 Audio input interface

(11) LCD display

- (10) Control key

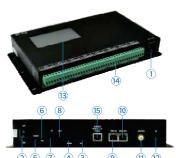
SY-408





- 1 Power interface
- 2 Power switch 3 SD card port
- (4) Working light
- (5) Cascade input
- (6) Cascade output
- (7) GPS antenna interface
- (8) LCD display
- (9) Control key (10) Output port

SY-418





- Power interface
- 2 Power switch
- SD Card interface
- Working light (5) Audio input interface
- 6 Microphone
- Cascade input
- (8) Cascade output

- DMX control input
- (10) DMX control output
- (II) GPS antenna interface (BTS is not supported)
- 17 Infrared remote control /4G /WiFi antenna interface
- (3) Touch display
- (14) Output port (15) KTV panel interface

BL-321





Read more

- (1) Charging interface
- 6 SD card slot Output subport port (7) MicroUSB(DC5V2A)
- 3 Output Network port
- 8 Touch display
- (4) TF Card slot(for Screen firmware upgrade)
- (5) Power switch

LoRa controllers

LoRa master LM-100

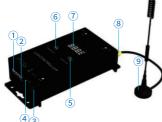




- 1 Power output
- 2 Power switch
- (3) LCD display
- (4) Control key
- (5) SD Card slot (upgrade only) (11) 4G antenna
- 6 4G card slot

- (7) GPS module
- (8) GPS module interface
- 9 LoRa antenna
- 10 LoRa antenna interface
- 12 4G antenna interface

LoRa Slaver LM-100





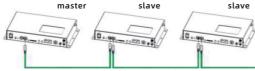
Read more

- 1 Power input
- Output independent port
- (3) SD Card slot (upgrade only)
- 4 Power switch
- (5) Mode plus key

- 6 Mode minus keying 7 Nixie display
- (8) LoRa antenna interface
 - 9 LoRa antenna

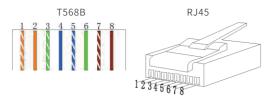
Extended function

1.Controller cascade connection



CAT5e network cable, no more than 50 meters

Connections to output ports

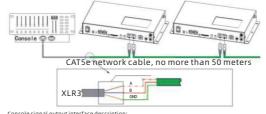


2.GPS function

- GPS support for standard SMA interface
- Marine antennaInstall the antenna in an open position
- The top is facing the sky
- Antenna spacing ≥2 meters, can be prevented
- Mutual interference



3.DMX console function interface



Console signal output interface description P1=GND (yellow and green lines);

P2=D+/A (brown line) P3=D-/B (blue line).

the male port is the receiving end

Console signal output interface is for reference only,

the actual signal needs to be based on the final cannon head and DMX512 console shall prevail.

3.Remote controller



Remote control distance: 15 meters (without barrier) Remote control function: tode selection/Speed adjustment/Scene

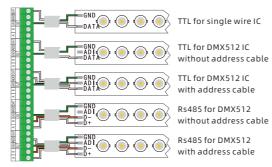
3.Touch control panel

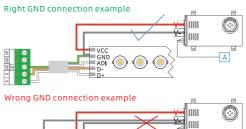


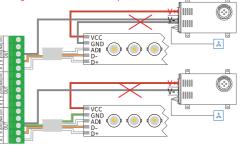
Dynamic sound control Lighting control Network cable power supply 86 work bottom box installation Inductive touch Tempered glass panel

Connection Instruction

Terminal





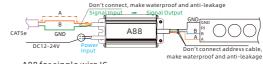


The controller signal output GND must be directly connected to the lamp input GND, Can not be connected to the lamp through the negative switching power supply.

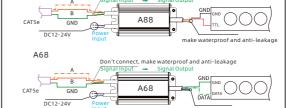
Signal Amplifier Instruction

◆ A88、A68

A88 for DMX512



A88 for single wire IC



Don't connect, make waterproof and anti-leakage

Copy File to SD card



Choose menu Output-SD, Click OK, then choose right SD card, Press Confirm to write *.bin file to SD card



Way 2: Copy *.bin file to SD card manually

Step1: Format your SD card

Options: FAT32 + 32KB

Notice:

SD card should be format every time when copy file to it.

FINES - Miles

Step 2: Copy *.bin file to SD card.



Error code instruction

E01 No SD card detected

E02 The SD card does not respond E03 SD card has no effect file

E07 The SD card file does not match the control box

E14 effect of the LR controller exceeds upper limit memory

E15 The LR controller has no bin effect file

E18 Project points exceeded the upper limit E20 LR series controller: The firmware file is abnormal

E21 SW/SY series: The firmware upgrade is abnormal

IR series controller: LR initial loss purchase

E22 SW/SY series controller: The firmware file is abnormal LR Series controller: Memory chip initialization failed

E23 Firmware program exception

E24 Firmware upgrade failed

E25 No firmware file

E26 Generated unique code cannot be written to the SD card

E27 The SD card has too many bad areas