

Sogno DMX Installation Manual

Chapter I Brief Introduction of the controller functions

I. System Characteristics

1. Controller's output support standard USITT DMX512/1990 Universal Protocol and expand DMX512 Protocol.
2. Three-primary-color independent brightness control, which realize simple, effective and accurate adjustment of white balance.
3. Precise gamma correction algorithm. It better conforms to the visual photographic characteristics of the human body, and the display color is more sufficient and rich, so as to perfectly reflect the animation or video effects of the designer.
4. Support 120-frame frequency maximum, to guarantee demands for HD display and 3D display of the image;
5. Adopt Ethernet interface and UDP network protocol, to guarantee stable transmission, the maximum transmission distance is 100m.
6. LCD display module, to timely display the controller parameters and state.
7. Dual-network interface, which can realize cascade connection between controllers and automatic inspection of the controller, and the connection status is displayed intuitively through the software.
8. 8-port output, single port output is standard 512-channel, expand protocol load points by client basis chip characteristics self-testing.
9. Support dual-way backup, the display will not be influenced if a controller is broken or the network cable is disconnected.
10. Can set self-adapting 1000M / 100M or forced 100M, to guarantee stability of large project.

II. Design concept

1. 1000M / 100M optional: adapt to different project schemes.
2. Two-way redundancy of the system signal, doubled stability.
3. Four-color independent algorithm: energy-saving, environmental-friendly and with pure color;

4. Integrated synchronous and asynchronous control, online in priority, automatic switching to the offline effect without online signal, to realize video source backup.
5. Large independent development and design video edition, playing and wiring design software: stronger adaptability, more languages supporting and higher openness. It is used in various shaped screens, multiple screens, building screen, pixel light screen and other complicated applications at home and abroad.
6. Support IP group function, and adopt switch parallel connection scheme: reduce system-level cascade chain length, and improve stability
7. Support optical fiber transmission after conversion of optical fiber module; support wireless network transmission, wireless bridge connection and Internet remote control.
8. The system supports automatic, timed and holiday preset playing.
9. Support mainstream 32-bit and 64-bit operating systems: windows2000, windowsXP, windows7, windows8 and so on.

III. Expansibility

1. Synchronous and asynchronous play of contents of video and image files of multiple formats.
2. Can install all Windows operating systems and support languages of various countries.
3. The player software is reserved with sufficient interfaces, so as to be compatible with other international general protocols, and support the personalized design demands of the customers.

Chapter II Appearance and Dimensions of the Controller

I. Controller Image

Front view



Rear view



- ①: power switch ②: LCD display ③: power/ communication indicator lamp
④: work indicator lamp ⑤⑥: self-adapting network interface ⑦: output port ⑧: power interface

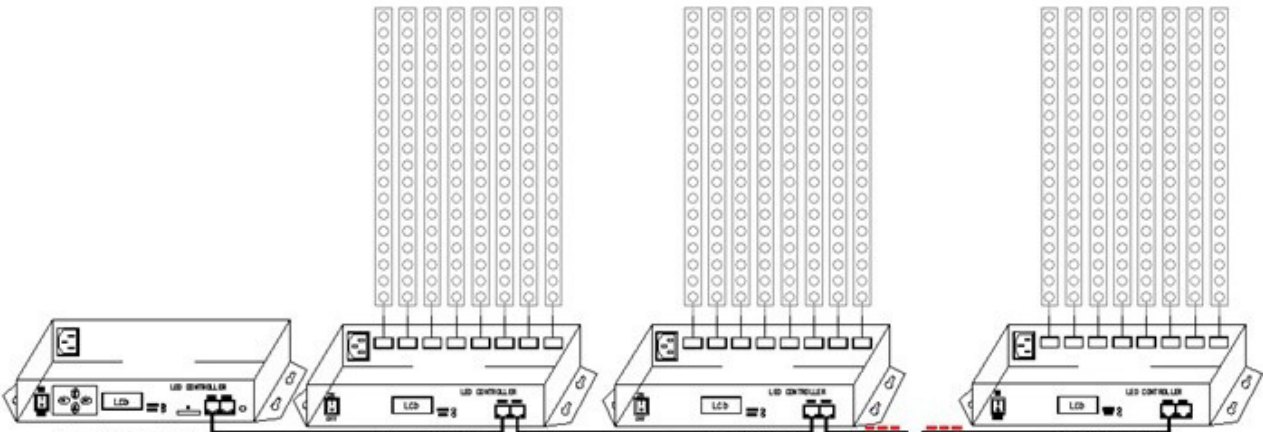
II. Controller basic parameters table :

Input power supply	AC100V to 240V
Maximum power	15W
Length	28.6cm
Width	13.6cm
Height	4.35cm
Spacing of fixing holes	26.8cm; 6.8cm

Chapter III Instruction for controller installation

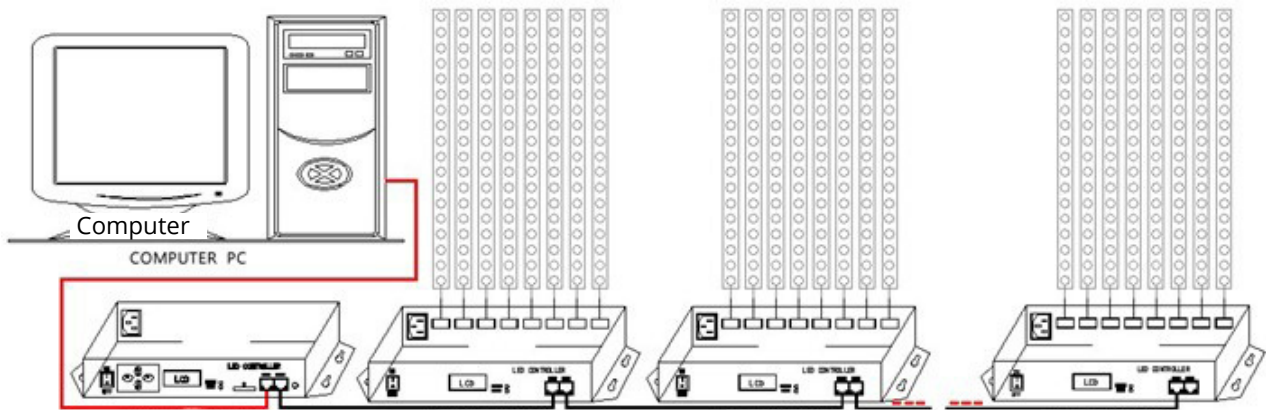
I. Online mode (connected with the computer)

Directly connected with the computer network port:

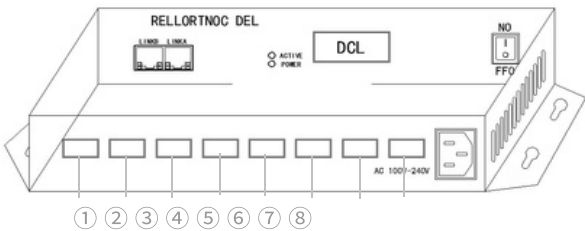


II . Integrated synchronous and asynchronous mode

Connected with the computer and offline master controller (when the mode is selected, the computer on-line works in priority, and the offline effect is automatically switched to without online signal)



III.Output interface sequence



3P terminal from left to right, single in sequence

	1	2	3
Signal output	G rand	Data+	Data-
	GND	A	B

The output interface is 8 × 3P interfaces, 1 to 8 respectively (as picture shown)

Chapter IV Precautions

Network cable sequence

- 568B: orange-white orange green-white blue blue-white green brown-white brown
- 568A: green-white green orange-white blue blue-white orange brown-white brown

The crossover cable shall be adopted among the controller, offline master controller and switch, i.e., an end is 568B and the other end is 568A. The straight line shall be adopted as the network cable between any equipment and computer above, i.e., both ends are 568B and 568A. Do not customize the straight line sequence.

Wire and connection method between the lamps and the controller

1. If the distance between the controller output port and the lamps is too far, it is suggested to adopt 485 special cable or over UTP shielded cable for connection, and the best connection method is: orange-A, orange-B, other can be connected to GND
2. At the end of each signal that is between A and B to add a terminal resistance of 120R
3. Do not use two wires wound to receive the signal simultaneously, for example, connect green and green-white to A+or B-.