

LT-600

LED LIGHTING CONTROL SYSTEM

(on-line/off-line/timing/DMX Four in one)

USER MANUAL



Pls kindly read through instructions before use

Forward

Thanks for choosing our LT-600 LED lighting control system. Before installation and usage, we strongly recommend you to read through this manual carefully.

After-Sales

From the day you purchase our products within a year, if being used properly in accordance with the instruction, and quality problems occur, we provide free repair or replacement services except the following cases:

1. Any defects caused by wrong operations..
2. Any damages caused by inappropriate power supply or abnormal voltage.
3. Any damages caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.
4. Any damages due to transportation, breaking, flooding water after the purchase.
5. Any damages caused by earthquake, fire, flood, lightning strike etc force majeure of natural disasters.
6. Any damages caused by negligence, inappropriate storing at high temperature and humidity environment or near harmful chemicals.
7. Product has been updated.

Safety warnings

1. Please don't install this controller in lightening, intense magnetic and high-voltage fields.
2. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection
3. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
4. Check if the voltage and power adapter suit the controller
5. Don't connect cables with power on, make sure a correct connection and no short circuit checked with instrument before power on.
6. Please don't open controller cover and operate if problems occur.

The manual is only suitable for this model, any update is subject to change without prior notice.

System Introduction

LT-600 lighting control system is our latest launch of an world's advanced LED lighting products' video display control system.

LT-600 kernel is VLSI. realize computer's simultaneously play、offline video on demand, automatic timing control、and its exterior connect with DMX console to achieve the world's first four in one function. Realize Synchronization / offline seamlessly switch, no need any splitter. Online control doesn't need to add DVI display adapter and send cards, easy to install, matching software's function perfect. Easy to operate。

Compatible with a variety of universal and customized LED driving IC; break through traditional rule of cabling restrictions, support a variety any cabling's shaped lighting project, make the controlling cabling more flexible, apply to any indoor or outdoor LED lights' online/ offline control。

Advanced color grey level processing technology, consistent with human eye's visual sensory, display effect will be more vivid, higher brightness, richer color, Let your LED lights effect performance thoroughly, one-upmanship!

一、 Specifications

LT-600 LED video control system

Input power supply	DC12V (matching AC100-240V power supply adaptor)
Output signal channels	16 channels
Input&output interface	RJ45
Loading capability per channel	> 1024 pixels/channel
Grey level	Max 65536 scale (64K)
Clock Frequency	512kHz~25M Hz
Refreshing frequency	60Hz~3000Hz
On-line	TCP/IP standard internet protocol

transmission mode

Off-line storage media	SD memory card
SD card capability	2GB Max
The 3th interface	DMX512/1990 protocol
Operating system	Support chinese 、 English Windows 2000/2003 /XP/Vista/win7
Product size	L197XW120XH47(mm)
Packing size	L250XW125XH88(mm)
Weight	920g(N.W.) 1350g(G.W.)

二、 Features

1. 1 controller collect 4 kinds major function, which reached by previous multiple controllers.
 - 1) Ethernet real time computer control via synchronous display , Supporting WiFi wireless transmission.;
 - 2) Offline SD card store request programme. Programming, Speed and other functions will be seen with half an eye on the LCD.
 - 3) Compatible with DMX protocol , Connecting DMX console build lighting control network.
 - 4) Supporting timing display any time. Realize display different programs, No matter on working day or weekend.
2. Controlling various LED driving chips, The LED lights base on the following IC can be controlled.:
74HC595,6B595,MBI5026,DM13A,DM134,ZQ9712,LPD6803,D705, WS2801,WS2803, HL1609,SM16716,LPD8803,LPD8806, TLS3001, TLS3002, TLS3003,TM1803,TM1804,TM1809,TM1812 etc. driving IC.
3. LED lights not only in accordance with the rule of cabling, but also support a variety any cabling's abnormal lighting project.
4. Extra large control capability, 16 channels signal output, Max. control 32768 full color pixels per LT-600. Support network synchronization of multiple controllers , multiple networked can control max. 250, 000 full-color pixels.

5. On-line controlling adopt universal 10/100/1000MBPS network interface, With TCP/IP standard Ethernet protocol, accommodate to wide range. Reliable communication, support WiFi wireless network transmission and real-time simultaneous display. Also can use internet's remote control to achieve real-time simultaneous display.
6. Adopting advanced image processing technology. Online synchronous play doesn't need to add DVI display adapter and send card, Any desktop and laptop can control it., convenient for project's debugging and demonstration.
7. Adopting the way of network synchronization, synchronous controlling of multiple can be achieved through network switched.
8. Animation, video files converted generate ultra-fidelity off SD card' s read files. ultra-small size, let the time of request programmes longer. And the content more affluent; SD card is easy to play the animation, either pull down and then use card reader to update, Can also be updated remotely via Ethernet.
9. Advanced color grey level processing technology, consistent with human eye' s visual sensory, display effect will more vivid, higher brightness, richer color. Effectively remove the tooth angle produced by the floating line in video. Show the smooth and natural image.
10. Perfect software function, simple to operate, own video display, support most media format. User can compile various picture, texts, cartoon, video as programmes that will be present. Can input any text display in the process of play. Support viewfinder read the display on screen directly. Breakthroughing the restrictions to code stream format、 Play random format file. Realize split screen display, can divide screen at will. Switching Chinese and English version freely.