

RGB Starcloth for DJBoothPro & DJBoothPro XL

(DJSC-RGB-PRO/DJSC-RGB-PROXL)

USER MANUAL

www.ultimax.uk


Please read this manual carefully before operating the fixture. If you sell, rent, or transfer the unit to another user, ensure this manual is included.

WARNING

Safety Instructions

This manual contains essential information for the safe installation, operation, and maintenance of the device. Read all instructions carefully and retain this manual for future reference.

After unpacking the unit, check for any signs of damage caused during transport. If any damage is found, do not use the device, contact your dealer immediately.

This device is designed for indoor use in dry environments only. Keep it away from rain, moisture, excessive heat, humidity, and dust. Do not expose it to water or other liquids. Do not mount the unit directly onto flammable surfaces. 

This device must only be installed, operated, and maintained by qualified personnel.

Do not attempt to dismantle or modify the device under any circumstances.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of the power supply match the device's specifications.

It is essential that the device is properly earthed and that the electrical installation complies with all relevant standards.

Do not connect this device to any type of dimmer equipment.

Ensure the power cord is not pinched or damaged by sharp edges. Do not allow the power cord to come into contact with other cables. Always handle the power cord by the plug. Never unplug the device by pulling on the cable.

There are no user-serviceable parts inside the device. Do not open the housing or operate the device with the covers removed.

If the product is used in any way not described in this manual, it may become damaged, and the warranty will be void.

Please ensure that the controller is always connected to the earth properly.

IMPORTANT

The manufacturer accepts no liability for any damage resulting from failure to follow this manual or from any unauthorised modifications to the product.

Rigging

Concerning rigging, trussing, and all other safety matters related to this product, all UK and national regulations must be followed.

Only qualified technicians are permitted to install this product.

This product must never be installed in a manner that allows it to swing freely. When rigging, de-rigging, or servicing the unit, always ensure the surrounding area is clear of people and obstacles.

IMPORTANT

Improper installation may result in serious injury or damage to property.

If the product is not supplied with a plug and has an open power cable, ensure that each wire is connected correctly when attaching a mains power plug. Refer to the table below for guidance on proper wiring.

International	EU Cable	The U.K. Cable	US Cable	Pin
L	Brown	Red	Yellow/ Copper	Fase
N	Blue	Black	Silver	Nul
\perp	Yellow/Green	Green	Green	Earth

PRODUCT OVERVIEW

Description

This starcloth features powerful 5W RGB LEDs, randomly embedded across black fabric to create a realistic starry sky effect, ideal for adding a subtle and elegant sparkle to your booth setup.

The Ultimax Star Control serves as the central interface for operating the entire system. It includes a two-row LCD display that allows for easy configuration. Three languages are available in the control menu: English (default), French, and German. Users can select their preferred language via the LCD control panel.

The controller supports multiple operating modes: universal DMX512, Master/Slave mode, Auto Run mode, and Sound Activation mode. The system can be programmed to perform various effects using any standard DMX controller. Two DMX modes are available: a 7-channel mode for simple operation and a 28-channel mode for advanced control. The LEDs are divided into 8 groups within the starcloth. In 28-channel mode, each group can be controlled independently.

The controller includes 10 pre-set programs that can be triggered individually. Built-in colour macros include red, green, blue, white, cyan, purple, yellow, and many more.

This LED starcloth is designed for indoor use only.

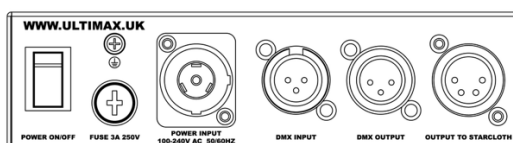
Items included in the package

- 1). Ultimax DJSC-RGB-PRO or DJSC-RGB-PROXL
- 2). Ultimax Starcloth DMX controller
- 3). 4-way driver box (embedded into the starcloth)
- 4). Power cable (1.5m long)
- 5). 2m long 4-pin data cable **(Not for DMX signal transmission)**
- 6). This manual

Star Control

This controller provides simple and effective control of the LED starcloth. It features a built-in switch-mode power supply and integrated DMX functionality.

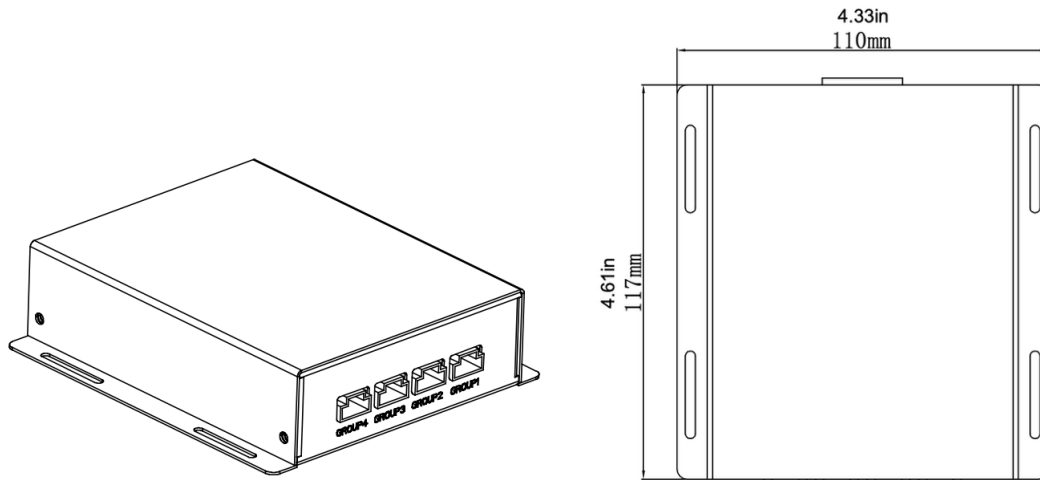
The controller includes a single data output port and a 4-pin data cable (included in the package) used to connect the controller to the driver box within the drape.



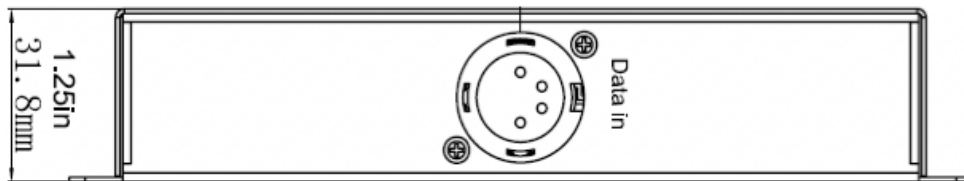
WARNING: The 4-pin female port is the data output that sends signal to the starcloth. Users should use a standard 3-pin cable to connect the controller to the starcloth. **Do not connect this port to a DMX desk.**

Driver Box

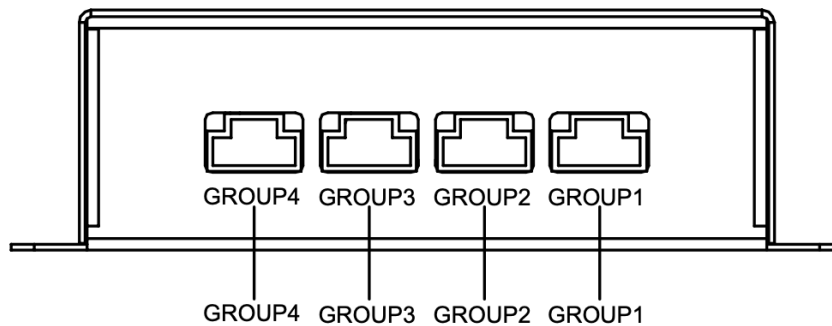
The control system includes a driver box, which acts as an interface between the controller and the starcloth. It receives power and data from the controller and distributes both to 40 LEDs within the starcloth.



Driver Box and Dimensions



Data/power input



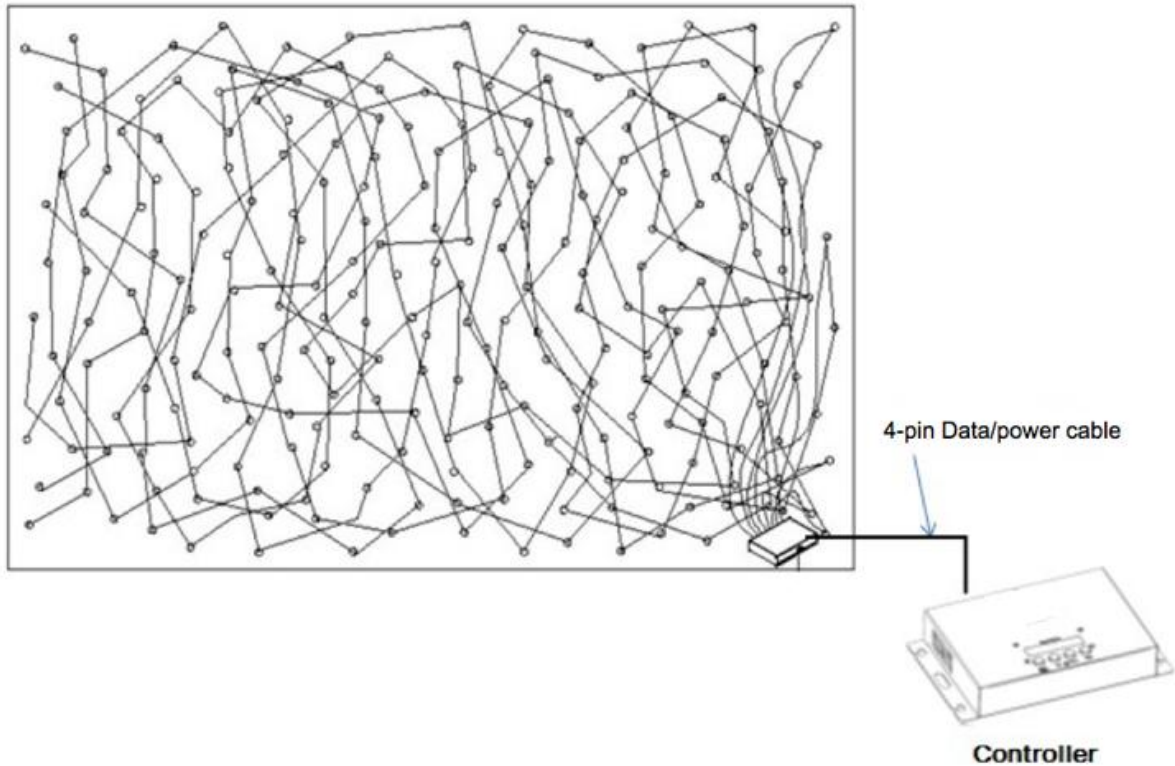
4 Data/power Outputs to LED strings

The driver box is pre-installed within the starcloth. After attaching the starcloth to the Ultimax DJBoothPro or DJBoothPro XL, use the enclosed 4-pin data cable to connect the controller to the driver box. The driver box is located in the lower right-hand corner of the starcloth.



Driver Box Position in the starcloth

Whole System Connection Diagram



CONTROLLER SETUP

Power Supply

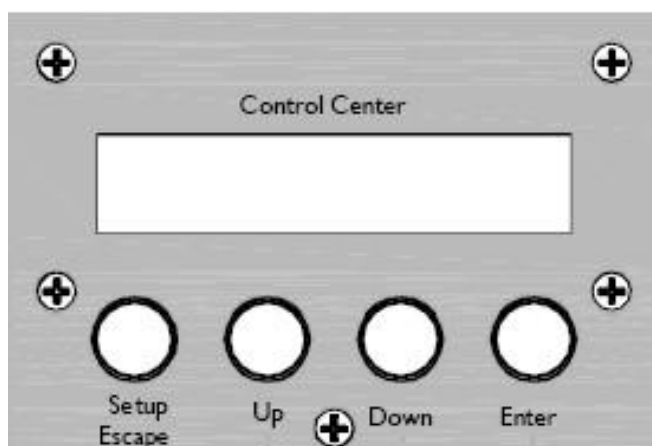
This fixture uses a switched-mode power supply and is compatible with all global voltages automatically.

LCD Display Setup

The starcloth controller features an LCD display that automatically turns off after 30 seconds of inactivity by default. The display can be reactivated by pressing any button. In DMX mode, the LCD will also reactivate when it detects a change in the DMX signal.

The LCD display includes a lock function, which is disabled by default. Users can enable this feature to prevent unauthorized changes to the settings. To unlock the LCD, press the following buttons in sequence: 1 (Setup), 3 (Up), 2 (Down), and 4 (Enter).

There are 4 press buttons under the LCD display: **【Set/Escape】**, **【 Up 】**, **【Down】** and **【Enter】**.



【Set/Escape】 Menu selection or return to previous menu

【 Up 】 Scroll "UP" through the menu list to increase the value of the current function

【Down】 Scroll "DOWN" through the menu list to decrease the value of the current function

【Enter】 Enter the current menu or confirm the current function value

Menu Navigation

Turn on controller, after controller reset, press **【Set/Escape】** button for menu navigation.


```

          DN↓↑UP
Set menu←SET← DMX mode →ENT→DMX menu
          DN↓↑UP
Set menu←SET←   Black   →ENT→dimmer menu
          DN↓↑UP
Set menu←SET←   Red     →ENT→dimmer menu

```


DN↓↑UP
 Set menu←SET← Green →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Blue →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Yellow →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Cyan →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Purple →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← White →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program1 →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program2 →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program3 →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program4 →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program5 →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program6 →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program7 →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program8 →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program9 →ENT→dimmer menu
 DN↓↑UP
 Set menu←SET← Program10 →ENT→dimmer menu
 DN↓↑UP
 Set menu SET← Macro →ENT→Macro menu
 DN↓↑UP

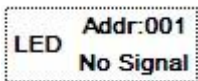
Setup Menu

Turn on controller, after controller reset, press 【Set/Esc】 button till  appears, users now can start to set up the controller.

1 st LEVEL	2 nd LEVEL	3 rd LEVEL	4 th LEVEL	FUNCTION	DESCRIPTION
1 Set Menu	1-1 Language	1-1-1 English	/	English	
		1-1-2-	/	French	

		French			
		1-1-3 German	/	German	
	1-2 Reload Default	1-2-1 [On] Off	/	ON	To reload default to fixture
		1-2-2 On [Off]	/	OFF	
	1-3 Master & Alone	1-3-1 Master Mode	/	MASTER	To select fixture to run as a master unit or not
		1-3-2 Alone Mode	/	Stand Alone	
	1-4 Auto & Sound	1-4-1 Auto Mode	/	AUTO RUN	To set up to Auto run or Sound activation mode
		1-4-2 Sound Mode	/	SOUND ACTIVATION	
	1-5 Clear Display	1-5-1 Always On	/	LCD back light ON	Turn off LCD back light or not in 30 seconds
		1-5-2 Delay Off	/	LCD back light OFF	
	1-6 Key Lock	1-6-1 KeyLock: On	/	Lockup	To lock up control panel buttons or not
		1-6-2 KeyLock: Off	/	Not lockup	
	1-7 Information	1-7-01 LED starcloth RGB	/	/	Model
		1-7-02 Soft version 1.0	/	/	Software version
	1-8 Machine Timer	1-8-1 This Time:000M	/	Fixture running period of this time	Fixture working time record
		1-8-2 TotalTime:000H	/	Total running time	
		1-8-3 Clear Total (Pwd: 88)	1-8-3-1 ClearTotal: OK	OK	To clear all record or not
			1-8-3-2 ClearTotal: NO	NO	

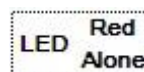
DMX Menu Setup

Turn on controller, after controller reset, press **【Set/Esc】** button till  appears, press **【Enter】** to **DMX Menu** setup.

1 st LEVEL	2 nd LEVEL	3 rd LEVEL	Function
2	2-1	2-1-001	DMX address can be set up from 001 to

DMX Menu	DMX Address		485
	2-2 DMX Channel Select	2-2-1 7-CH	7 channel DMX mode
		2-2-2 28-CH	28 channel DMX mode
	2-3 DMX Break	2-3-1 Stop Run	When DMX signal breaks, the starcloth will blackout.
		2-3-2 Hold Run	When DMX signal breaks, the starcloth will hold on running current effect.
		2-3-3 Auto Run	When DMX signal breaks, the starcloth will switch to auto run mode automatically.
		2-3-4 Sound Run	When DMX signal breaks, the starcloth will switch to sound activation mode automatically.

Dimmer Menu (two modes)



Turn on controller, after controller reset, press **【Set/Esc】** button till **LED Red Alone** or other built in colors appears, press **【Enter】** to **Dimmer Menu** setup.

1 st LEVEL	2 nd LEVEL	3 rd LEVEL	4 th LEVEL	5 th LEVEL	Function
3 Dimmer Menu	3-1 Dimmer	3-1-000 Dimmer 000	/	/	All LEDs dimming from 000 to 255.
	3-2 Strobe	3-2-000 Strobe 000	/	/	All LEDs strobe from 000 to 255.
	3-3 Red	3-3-000 Red 000	/	/	Red dimming can be set up from 000 to 255.
	3-4 Green	3-3-000 Green 000	/	/	Green dimming can be set up from 000 to 255.
	3-5 Blue	3-5-000 Blue 000	/	/	Blue dimming can be set up from 000 to 255.
	3-6 Dimmer Mode	3-6-1 RGB Mode	/	/	Dimmer for all LEDs
		3-6-2 Group Mode	3-27 Dimmer Mode	3-27-1 RGB Mode	Users can set back to RGB Dimmer Mode
3 Dimmer Menu	3-6 Dimmer Mode	3-6-2 Group Mode	3-27 Dimmer Mode	3-27-2 Group Mode	Set up to Group Mode
			3-01 Dimmer	3-01-000	Dimming for all LEDs from 000 to 255
			3-02 Strobe	3-02-000	Strobe for all LEDs from 000-255

			3-03 1 Red	3-03-000	Dimmer for the first group Red LED
			3-04 1 Green	3-04-000	Dimmer for the first group Green LED
			3-05 1 Blue	3-05-000	Dimmer for the first group Blue LED
		
			3-24 8 Red	3-24-000	Dimmer for the 8th group Red LED
			3-25 8 Green	3-25-000	Dimmer for the 8th group Green LED
			3-26 8 Blue	3-26-000	Dimmer for the 8th group Blue LED

Program Menu



Turn on controller, after controller reset, press **【Set/Esc】** button till **LED** appears, press **【Enter】** to **Program Menu** setup.

1 st LEVEL	2 nd LEVEL	3 rd LEVEL	Function
4 Program Menu	4-1 Dimmer	4-1-000 Dimmer 000	Dimmer can be set up from 000 to 255.
	4-2 Strobe	4-2-01 Strobe 000	Strobe can be set up from 000 to 255.
	4-3 Speed	4-3-01 Speed 000	Speed can be set up from 000 to 255.

Macro Menu



Turn on controller, after controller reset, press **【Set/Esc】** button till **LED** appears, press **【Enter】** to **Macro Menu** setup.

1 st LEVEL	2 nd LEVEL	3 rd LEVEL	Function
5 Macro Menu	5-01 Macro steps	5-01-01 Macro steps 01	Macro steps can be set up from 01 to 62.
	5-02 Macro steps 01	5-02-01 Program 1	Program 1

		5-02-02 Program 2	Program 2
	
		5-02-10 Program 10	Program 10
	5-03 Macro steps 02	5-03-01 Program 1	Program 1
		5-03-02 Program 2	Program 2
	
		5-03-10 Program 10	Program 10

	5-11 Macro steps 10	5-11-01 Program 1	Program 1
		5-11-02 Program 2	Program 2
	
		5-11-10 Program 10	Program 10

DMX Address Setup

Each fixture must be assigned a DMX address to ensure it responds to the correct control signals. The DMX address represents the channel number at which the device begins to receive digital control data from the controller.

Connect all starcloth controllers in series using standard DMX512 data cables. For detailed instructions, please refer to the “**DMX Menu Setup**” section in the “**LCD Display Setup**” chapter.

DMX Cable Requirements

This starcloth system is compatible with the standard DMX-512 protocol and offers two control modes: 7-channel and 28-channel DMX operation. Use a standard 3-pin XLR connector for both data input and output.



3-pin XLR

If you are using your own cables, ensure they are standard two-conductor shielded cables, with a male XLR connector at one end and a female XLR connector at the other. Please note that DMX cables must be connected in a daisy-chain configuration and should never be split.

To ensure reliable DMX data transmission when using multiple fixtures, use the shortest possible cable route. The order in which fixtures are connected in the DMX chain does not affect their addressing. For example, a fixture assigned DMX address 1 can be placed anywhere in the chain, at the beginning, end, or in the middle. The DMX controller will send data for address 1 to that fixture regardless of its position in the chain.

DMX Terminator

In DMX Controller mode, the DMX output of the last controller in the chain must be connected to a DMX terminator. This prevents electrical noise from interfering with and corrupting the DMX control signals.

A DMX terminator is an XLR connector with a 90–120 Ω , 1/4-watt resistor wired between pins 2 and 3 (DATA+ and DATA-) of a male XLR plug. The terminator is plugged into the output socket of the final fixture in the daisy chain to properly terminate the line. Using a terminator reduces the likelihood of erratic behaviour.

OPERATING MODES

The fixture can work in the following operating modes:

- DMX control mode: this function will allow you to control individual starcloth system with a standard DMX 512 console.
- Master/Slave mode: One controller will work as the Master fixture; other controllers in the chain will work in synchronization with the Master fixture.
- Auto run mode.
- Sound activated mode.

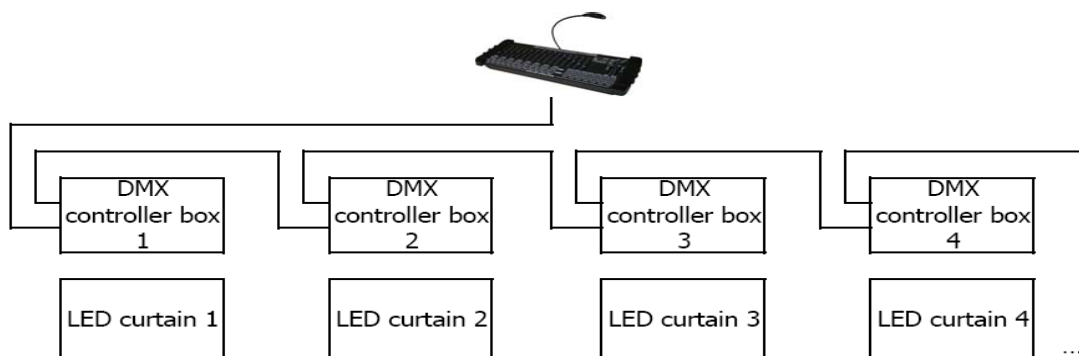
DMX Control Mode

Operating through a DMX console gives the user the freedom to create their own programs tailored to their own individual needs.

This function allows you to control each individual starcloth system with a standard DMX 512 console.

This device has two DMX control mode: 7 DMX channels and 28 DMX channels. Please refer to following sections for DMX channel details. Users can configure the fixture, in case DMX signal breaks, to stop running or hold on running current programs or to auto run mode or go automatically to music control.

Please refer to "**DMX menu setup**". To run the starcloth system in DMX mode, plug in the controller box via the XLR connector to any standard DMX console. To set up DMX address, please refer to the instructions in "**LCD Display Setup**".



DMX Protocol

This starcloth system has two DMX control modes: 7 DMX channels and 28 DMX channels.

7 DMX channels: Used for direct control of the LED starcloth's colour changes and colour macros.

28 DMX channels: Used for individual control of RGB colours in each of the eight groups.

Standard mode	Extended mode	Function	DMX Value	Description
1	1	Master dimming	000-255	Dimming from dark to light
2	2	Strobe	000-009	Void
			010-255	Strobe 0-25Hz
3	3	Macro channel	000-049	RGB mode
			050-059	Black
			060-069	Red
			070-079	Green
			080-089	Blue
			090-099	Yellow
			100-109	Cyan
			110-119	Purple
			120-129	White
		Pre-set program	130-139	Program 1
			140-149	Program 2
			150-159	Program 3
			160-169	Program 4
			170-179	Program 5
			180-189	Program 6
			190-199	Program 7
			200-209	Program 8
			210-219	Program 9
			220-229	Program 10
		Macros	230-239	Color macros
			240-249	Music control
			250-255	void
4	4	Speed adjustable	000-004	Normal speed
			010-255	Speed from slow to fast
5	/	Red	000-255	From dark to light
6	/	Green	000-255	From dark to light
7	/	Blue	000-255	From dark to light
	5	Red	000-255	Group 1, from dark to light
	6	Green	000-255	Group 1, from dark to light
	7	Blue	000-255	Group 1, from dark to light
	8	Red	000-255	Group 2, from dark to light
	9	Green	000-255	Group 2, from dark to light
	10	Blue	000-255	Group 2, from dark to light
	11	Red	000-255	Group 3, from dark to light
	12	Green	000-255	Group 3, from dark to light

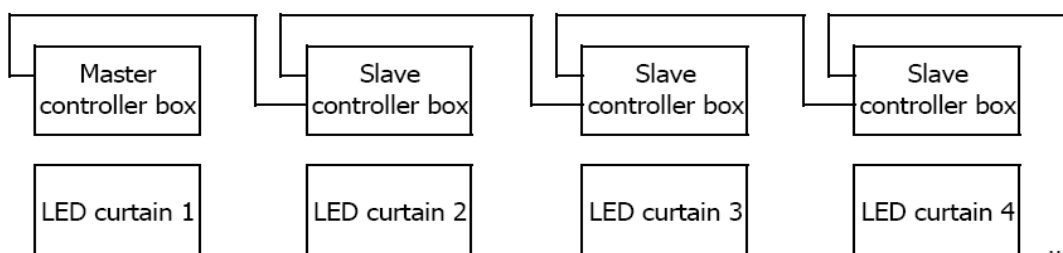
13	Blue	000-255	Group 3, from dark to light
14	Red	000-255	Group 4, from dark to light
15	Green	000-255	Group 4, from dark to light
16	Blue	000-255	Group 4, from dark to light
17	Red	000-255	Group 5, from dark to light
18	Green	000-255	Group 5, from dark to light
19	Blue	000-255	Group 5, from dark to light
20	Red	000-255	Group 6, from dark to light
21	Green	000-255	Group 6, from dark to light
22	Blue	000-255	Group 6, from dark to light
23	Red	000-255	Group 7, from dark to light
24	Green	000-255	Group 7, from dark to light
25	Blue	000-255	Group 7, from dark to light
26	Red	000-255	Group 8, from dark to light
27	Green	000-255	Group 8, from dark to light
28	Blue	000-255	Group 8, from dark to light

Master/Slave Mode

This function allows users to link multiple starcloth control systems together to run preset programs without the need for a DMX console. In Master/Slave mode, one controller operates as the Master unit, while the others follow its built-in programs. Starcloths connected to both the Master and Slave controllers will operate in synchronisation.

Any controller box can be configured as either a Master or a Slave; however, only one unit should be assigned as the Master in the system.

Master/Slave Mode



Auto Run Mode

The starcloth can operate in Auto Run mode to play the built-in programs. Please refer to the “**Setup Menu**” for configuration. Users can select from 10 pre-set programs using the control panel, each of which can run independently. The running speed of each program is adjustable via the control panel. For instructions on

selecting programs and adjusting speeds, refer to "**Menu Navigation**".

Sound Activated Mode

The starcloth control system can operate in sound-activated mode using the built-in microphone in the controller box. For mode setup instructions, please refer to the "**Setup Menu**".

MAINTENANCE

The operator must ensure that all safety-related and technical installations are inspected annually by a qualified expert as part of a formal acceptance test.

The operator must also ensure that these installations are checked by a competent person once a year.

The following points must be considered during the inspection:

1. The electric power supply cables must not show any damages or material fatigue.
2. Make sure connections are clean and totally dry before linking equipments or supplying electric power.
3. All screws used for installing the device or parts of the device must be tightly connected and must not be corroded.

Although the LED starcloth system requires minimal maintenance, regular care, particularly cleaning, is essential to ensure optimal performance.

The system includes external optical lenses, which should be cleaned periodically to maintain maximum light output. The cleaning frequency depends on the environment in which the starcloth is installed. Damp, smoky, or dusty conditions may lead to faster accumulation of dirt on both the cloth and the lenses. Even in clean environments, it is recommended to clean the external optics and fabric at least once a month.

Use a soft cloth with a standard glass cleaning solution to clean the lenses and fabric.

The following points must be considered during the maintenance:

1. Unplug the system from main power.
2. Use a vacuum or dry compressed air and a soft brush to remove dust on the cloth.
3. Clean all external optics with a mild solution of glass cleaner or isopropyl alcohol, and a soft, lint free cotton cloth or a lens cleaning tissue.
4. Gently polish the external glass surfaces until they are free of haze and lint.

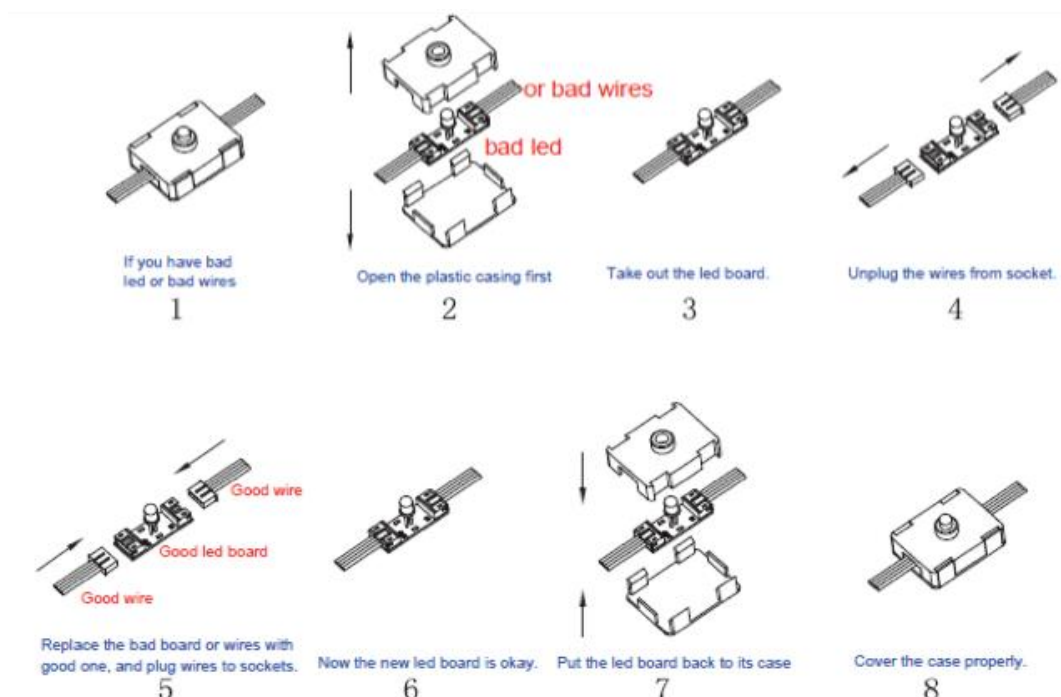
TROUBLE SHOOTING

This troubleshooting guide is intended to help you resolve simple issues. If the problem cannot be resolved using the suggestions below, do not open the unit, as this may cause damage and void the warranty. Instead, contact your dealer or return the unit to them for inspection.

Possible issues and their possible solutions are listed below:

Problem	Solution
General low light output	Check if LED lenses are dirty; Clean the external optics using a soft cloth using normal glass cleaning fluid.
Starcloth system does not respond to DMX control	Check if the DMX cables are connected properly, and if the DMX cables are wired correctly. Also check if the DMX controller box is addressed properly.
One LED in an LED group not ON	1. Check if LED lamp is broken or becomes loose from its PC board. Replace the LED lamp or install a new LED lamp kit. 2. Return the system to the dealer.
All LEDs in a LED group not ON	Check if data cable is faulty, repair or change the cable if necessary. Check if the LED drive board is faulty, repair or change the drive board.
All LEDs on a starcloth not ON	Check if the power cable and data cable are properly connected; Check if the controller box functions well; If using Master/Slave mode, check if the Master fixture is properly set up.

Please refer to below to change faulty LEDs or wires:



SPECIFICATIONS

Electrical

Input voltage	110~260VAC, 50/60Hz
Power supply	75W 7.5V
Power consumption	50W max.
Power fuse	2A
Drive current	10A max.

Photometric

Light source	5W LEDs, RGB 3-in-1
LED lifetime	50,000 hours

Effects

0-100% RGB dimming, strobe
 Fast strobe (speed adjustable), sound-activated
 10 pre-set programmers, built-in color macros
 Auto run programs with speed adjustable
 8 groups of LEDs controllable separately for unlimited effects

Control

Control mode	DMX512; Auto run mode; Master/Slave mode; Sound activation mode
Control panel	LCD display, control panel lockable
DMX channel	Basic mode: 7 channels; Advanced mode: 28 channels;
DMX connector	3-pin XLR input/output ports

Physical & Construction

Starcloth material	Fire retardant cloth
Starcloth net weight	Around 4.5 kg
Starcloth color	Black
Controller material	Metal
Controller box size	248L x 148W x 43.2H mm
Net weight	1.2 kg
Controller color	Black

NOTE: Due to improvement, the product specifications and this manual are subject to change without prior notice

