THANK-YOU

First of all, we thank you for having chosen our LED Animation Curtain. This LED curtain has been thoroughly tested and shipped in perfect condition before shipment. This device is a great and reliable fixture that can meet most of your requirements for entertainment markets. It can be just plug-and-play, and also can be controlled via standard DMX512 for sophisticated requirements.

All of our products are made on our business philosophy:

- we believe that satisfied customers are the key to a successful business and that controlled growth is the only path to sustained profitability.

- We believe that there is no point in supplying products that are substandard or inadequate. In the long run, it never pays

You can always rely on us.

Thanks again!
W&T team

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WARNING

> PatternCurtain control system has all programs preset in an SD card. Whenever taking out and replacing the SD card, users MUST first turn off the controller power, then turn it on after taking out and replacing the SD card. Otherwise PC board could be damaged.

Safety Instructions

This product guide contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

When unpacking and before disposing of the carton, check there is no transportation damage before using the projector. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The projector is for indoor use only. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other liquids. The projector is not designed or intended to be mounted directly on to inflammable surfaces.

The projector is only intended for installation, operation and maintenance by qualified personnel.

The projector must be installed in a location with adequate ventilation, at least 50cm from adjacent wall surfaces. Be sure that no ventilation slots are blocked.

Do not project the beam onto inflammable surfaces, minimum distance is 0.5m. ◁ 0.5m ▮

Do not attempt to dismantle and/or modify the projector in any way.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the projector.

It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

The projector should always be installed with a secondary safety fixing. A safety cord is supplied for this; it should be attached as shown in "installing the projector" section.

There is no user serviceable parts inside the projector do not open the housing and never operate the projector with the covers removed.

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The maximum ambient temperature t_a = 45°C must never been exceeded.

The relative humidity must not exceed 50% with an ambient temperature of 45°C.

If this device is operated in any other way other than the one said in this manual, this device may suffer damages and thus the warranty becomes void.

Always disconnect from the mains, when the device is not in use or before cleaning it or before attempting any maintenance work.

If you have any questions, don't hesitate to consult your dealer.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

PLEASE recycle the shipping carton whenever possible.

Rigging

Concerning rigging, trussing for this device, please follow the European and national guidelines.

Only the qualified technicians are allowed for the device installation,

The device must never be mounted for a possible swinging position, and a safety cord attached must always be used.

IMPORTANT:

Improper installation can lead to serious damage to people and property.

This device is not supplied with a plug, and it has an open power cable. So when connecting the device to the mains with a power plug, ensure that the right color cable is connected to the right place. The following table is for your reference.

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

IMPORTANT

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

PRODUCT OVERVIEW

Description

PatternCurtain is a type of led animation curtain that can display fantastic patterns. This led curtain uses super bright RGB leds and can display amazing patterns. It can operate in auto run mode and sound activation mode. Users can also control it with DMX desks.

30 preset programs/patterns are stored in an SD card, Users can select patterns via LCD control panel on a controller or via DMX desk; running speeds are adjustable via push buttons or DMX console. At sound activation mode, preset patterns are activated randomly with surround music.

PatternCurtains is made from flame retardant heavy duty wool serge (SGS certified). It is finished with grommets on four sides to allow free connections of many curtains in any configurations. Most popular curtain sizes are 3x2m and 4x2m, other sizes can also be customized.

PatternCurtain is designed for indoor applications. It is really an indispensable tool for mobile DJs, stage, theater, TV studio, theme event, nigh club, hotel banqueting halls, wedding, home parties etc...

Items included in the package

1). the drape

2). Pattern Curtain controller

3). Power cable (1.5m long)

4). Data cable (3m long)
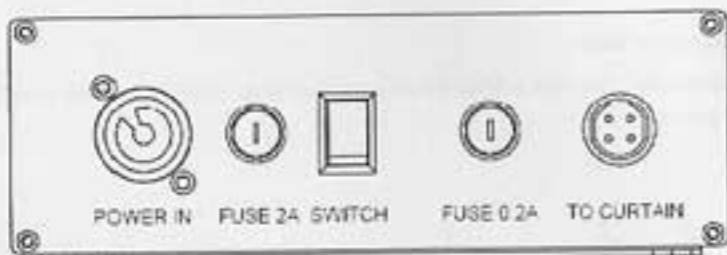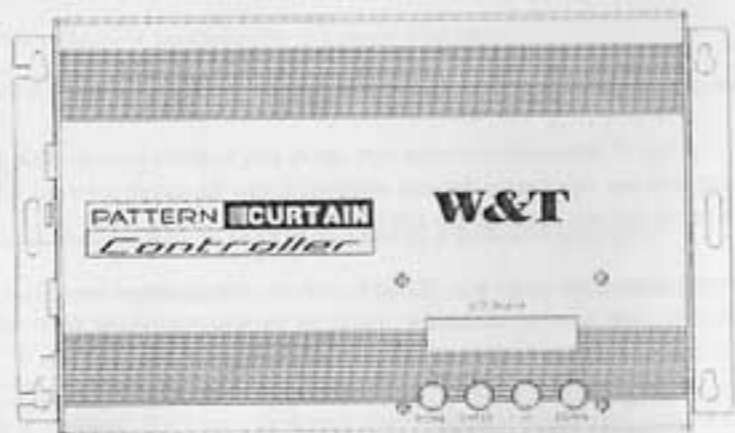
5). this manual

Controller Box

PatternCurtain controller is designed for easy mounting; it can be mounted on a flat surface or hanged on a wall or truss.
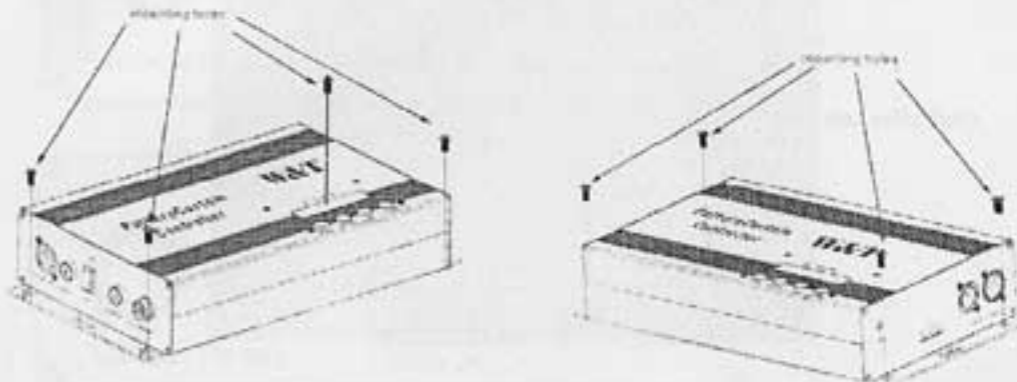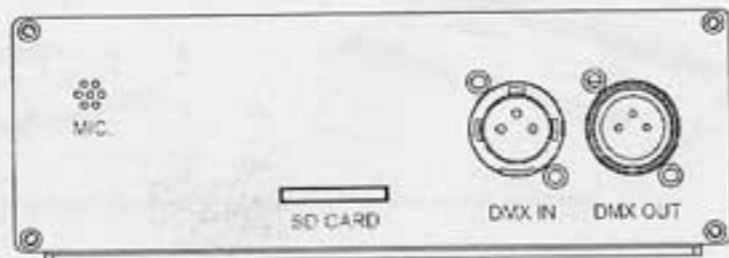

Mounting holes

PatternCurtain controller allows easy control of the led animation curtain. It has a built-in power supply with on board DMX capability. It has 3-pin male and female XLR, DMX addressable up to 512.

POWER IN   FUSE 2A SWITCH   FUSE 0.2A   TO CURTAIN

Controller Left Side

MIC.

SD CARD   DMX IN   DMX OUT

Controller ight side

LED Drape

Grommet

LED

Fireproof wool serge
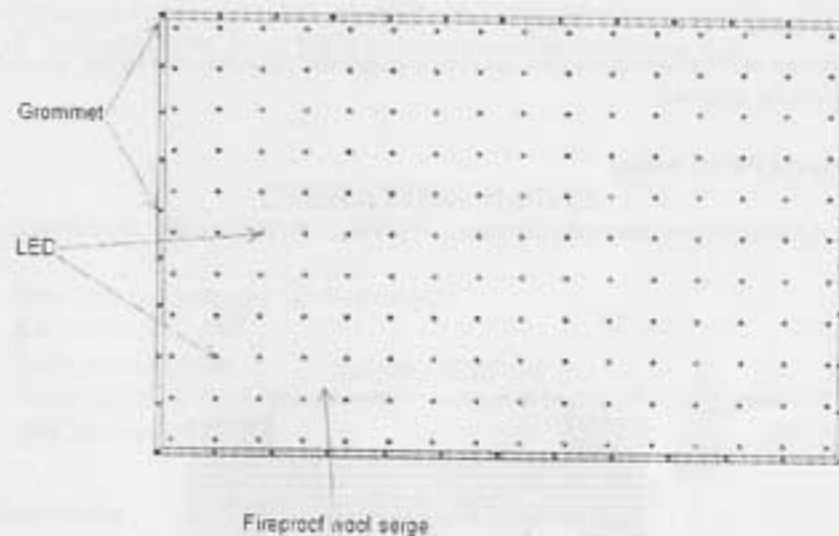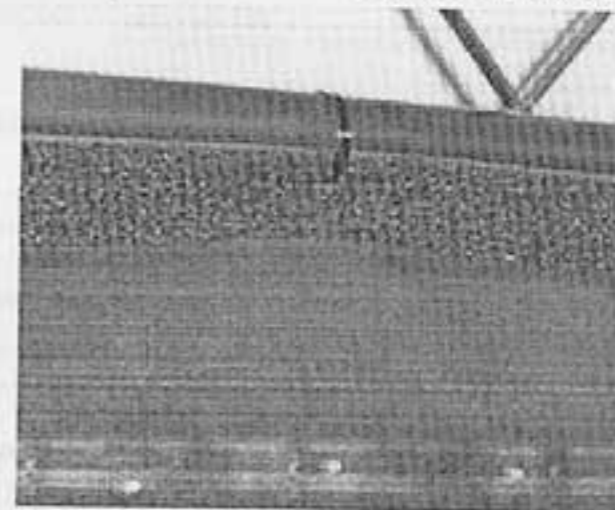
Mounting the Curtain

PatternCurtain drape has grommets and holes at its four sides, users can fix the drape to truss or other structures easily and quickly.

Make sure that structure for mounting the drape is strong enough to support its weight. Whenever mounting the drape to any location, always make sure that it will be easy to access the drape for maintenance.
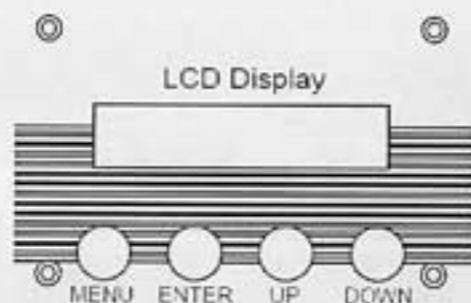
PARTTERNCURTAIN SYSTEM SETUP

Power Supply

This fixture uses switch power supply, and can automatically match all voltage worldwide. No need to worry about the voltage anywhere.

LCD Control Panel Setup

There are 4 control buttons under the LCD display: <**MENU**>, <**ENTER**>, <**UP**> and <**DOWN**>.

LCD Display

MENU   ENTER   UP   DOWN

【MENU】Selection or return to previous menu

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

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

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

The controller box has an LCD control panel; it is very simple to set up the controller. Users can select operation modes via the MENU button:

Turn on the controller, press 【MENU】, you will see the following info:

Menu Info	Selection (Up/Down)	Description
Version	Software version	Showing software version
Automatic	No	Auto run function **OFF**
	Yes	Auto run function **ON**
Sound	No	Sound activation mode **OFF**
	Yes	Sound activation mode **ON**
Address (DMX) ①	No	DMX 512 control mode **OFF**
	Yes	DMX 512 control mode **ON,**
Speed	1 ~ 9	Autos run program speed control. 1 = slowest speed, 9= highest speed
Program ②	No	Function **OFF** of built-in programs activated at auto run and sound activation mode
	Yes	Function **ON** of built-in programs activated at auto run and sound activation mode

① When LCD shows **Address**, first press 【ENTER】, then select ON or OFF by pressing 【 UP 】 and 【DOWN】. After setting to DMX 512 **ON,** press 【ENTER】 again to set up DMX address for the controller.

② When LCD shows Program, first press 【ENTER】, then select ON or OFF by pressing 【 UP 】 and 【DOWN】. After setting it ON, press 【ENTER】 again to select patterns from 1 to 30.

OPERATING MODES

The fixture can work in the following operating modes:

- Auto run mode
- Sound activation mode.
- DMX control mode: this function will allow you to control individual PatternCurtain with a standard DMX 512 console.

Auto Run Mode

PatternCurtain can operate at auto run mode to play the preset programs. Users can select the 30 built-in programs from the control panel. Each can play separately. Program running speed is adjustable by choosing speed from the control panel.

Please follow up the steps below for operation mode setup.

1. Press 【MENU】 repeatedly until "Automatic" appears on the LCD display;
2. Press 【ENTER】 to enter to the next sub-menu;
3. Press 【 UP 】 or 【DOWN】to select YES;
4. Press 【ENTER】 to confirm your selection.

Sound Activation Mode

PatternCurtain can operate to music control thanks to the built-in microphone in the controller box. Please follow up the steps below for operation mode setup.

1. Press 【MENU】 repeatedly until "Sound" appears on the LCD display;
2. Press 【ENTER】 to enter to the next sub-menu;
3. Press 【 UP 】 or 【DOWN】to select YES;
4. Press 【ENTER】 to confirm your selection;

DMX Control Mode

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

1. This function allows you to control each individual curtain with a standard DMX 512 console.
2. To run PatternCurtain 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 **"DMX Address Setup"**
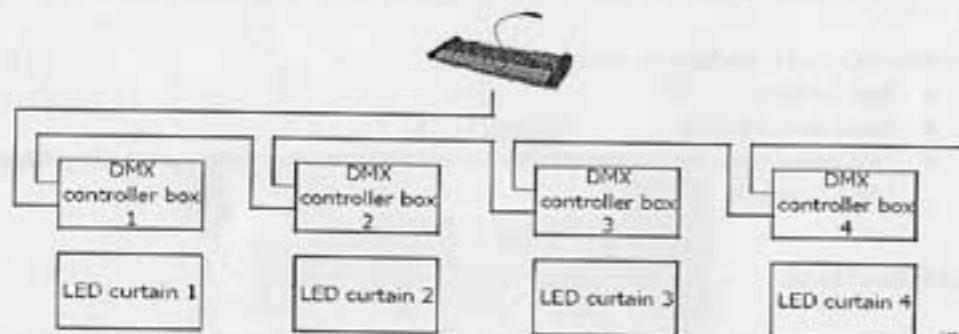
To set up DMX address for the controller, please follow up these steps:

1. Press 【MENU】 repeatedly until "DMX 512" appears on the LCD display;

2. Press 【ENTER】 to enter to the next sub-menu;

3. Press 【 UP 】 or 【DOWN】 to select YES;

4. Press 【ENTER】 to confirm your selection, Address now appears on the LCD display

5. Press 【 UP 】 or 【DOWN】 to set DMX address for the controller

6. Press 【 ENTER 】 to save the setup

DMX Protocol

DMX CH	FUNCTION	DMX VALUE	DISCRIPTION
CH1	Master dimmer	000-005	Void
		006-255	Linear dimming
CH2	Strobe	000-005	Void
		006-255	Strobe, from slow to fast
CH3	Red	0-255	0-100% dimming
CH4	Green	0-255	0-100% dimming
CH5	Blue	0-255	0-100% dimming
CH6	Preset patterns 1	0-16	Outward arrows from center to left and right
	Preset patterns 2	17-33	Inward arrows from sides to center
	Preset patterns 3	34-50	Red radio wave
	Preset patterns 4	51-67	Color wave from right to left
	Preset patterns 5	68-84	Color wave strobe
	Preset patterns 6	85-101	Outward rectangle size change
	Preset patterns 7	102-118	Inward rectangle size change
	Preset patterns 8	119-135	Outward single arrow from center to left and right
	Preset patterns 9	136-152	Inward single arrow from sides to center
	Preset patterns 10	153-169	Inward cross single arrow (Left>Center<Right)
	Preset patterns 11	170-186	Inward cross single arrow (Up>Center<Down)
	Preset patterns 12	187-203	Inward arrows (Left>Center<Right + Up<Center>Down)
	Preset patterns 13	204-220	Inward drawing back arrows
	Preset patterns 14	221-237	Inward red arrows (Left>Center<Right)
	Preset patterns 15	238-255	Colorful rain drops
CH7	Preset patterns 16	000-016	Pattern 16
	Preset patterns 17	17-33	Pattern 17
	Preset patterns 18	34-50	Pattern 18
	Preset patterns 19	51-67	Pattern 19
	Preset patterns 20	68-84	Pattern 20
	Preset patterns 21	85-101	Pattern 21
	Preset patterns 22	102-118	Pattern 22
	Preset patterns 23	119-135	Pattern 23
	Preset patterns 24	136-152	Pattern 24
	Preset patterns 25	153-169	Pattern 25
	Preset patterns 26	170-186	Pattern 26
	Preset patterns 27	187-203	Pattern 27
	Preset patterns 28	204-220	Pattern 28
	Preset patterns 29	221-237	Pattern 29
	Preset patterns 30	238-255	Pattern 30
CH8	Speed	000-255	From slow to fast

DMX Cable Requiremets

PatternCurtain system can be controlled via standard DMX-512 protocol. Users need to use a standard 3-pin XLR connector for data input and output.

3-pin XLR

If you are using your own cables, be sure to use standard two conductor shielded cable. Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

To ensure proper DMX data transmission, when using several DMX fixtures, try to use the shortest cable path. The order in which fixtures are connected in a DMX chain does not influent the DMX addressing. For example, a fixture assigned a DMX address as 1 may be placed anywhere in a DMX line, at the beginning, or at the end, or anywhere in the middle. When a fixture is assigned a DMX address as 1, the DMX controller understands to send DATA assigned to address 1 to that fixture, no matter where it positioned in the DMX chain.

DMX Terminator

In DMX Controller mode, at the last controller box in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an XLR connector with a 90 - 120Ω (ohm) 1/4 watt resistor connected across pins 2 and 3 of a male XLR connector (DATA+ and DATA-). This terminator is then plugged into the output socket on the last fixture in the daisy chain to terminate the line. Using a cable terminator will decrease the possibilities of erratic behavior.

The connections are illustrated below.
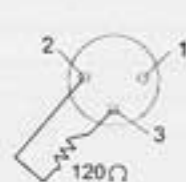
DMX TERMINATOR CONNECTION

Connect a 120Ω(OHM) resistor across pins 2 and 3 in an XLR plug and insert into the DMX OUT socket on the last unit in the chain.

MAINTENANCE

The operator has to make sure that the safety-related and machine-technical installations are to be inspected by an expert once a year in the course of an acceptance test.

The operator has to make sure that safety-related and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to 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 have to be tightly connected and must not be corroded.

Though this product almost requires no maintenance, however, doing maintenance such as frequent cleaning is always necessary.

The LED animation curtain system contains external optical lenses; users should clean the lenses periodically to optimize light output. The cleaning frequency depends on the environment in which the curtain system is installed. Damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the curtain and the lenses. Even in a clean type of surroundings, it is suggested to clean the external optics and the cloth at least once a month. It is suggested to use a soft cloth using normal glass cleaning fluid.

The following points have to 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 led lens 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 lens surfaces until they are free of haze and lint.

TROUBLE SHOOTING

This troubleshooting guide is just to help you to solve simple problems. Should problems not been solved by the following solutions, DO NOT open the unit, as this may damage the unit and the warranty will become void. The correct way is to consult the dealer, or return the unit to them

The common problems that users may encounter while using this unit are listed below with solutions:

Problems	Solutions
General low light output	Check if LED lenses are dirty; Clean the external optics using a soft cloth using normal glass cleaning fluid.
Curtain 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 LED lamp, or change the LED lamp kit; 2. Return the system to the dealer.
All LEDs in a curtain not ON	1. Check if data cable are faulty, repair or change the cable if necessary; 2. Check if the controller box is faulty (try the controller with another goods curtain if you have more curtains at hand), repair or change the controller box.
Part of LEDs on a curtain not ON	1. Check if the first LED in the faulty part is faulty, replace the led 2. Check if the wire soldering of the first led is fine, re-solder the wires to led board. If part of the faulty leds resume working, but there are still some not working, check the rest part in the same way.

WARRANTY

W&T International Ltd. hereby warrants, to the original purchaser, our products to be free of manufacturing defects in material and workmanship for a period of TWO years (730 days) from the date of purchase. It is the owner's responsibility to establish the data and place of purchase by acceptable evidence, at the time service is sought. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which W&T concludes, after inspecting, affects the reliability of the product; if the product has been repaired or serviced by anyone other than W&T unless prior written authorization was issued to purchaser by W&T International Ltd... If the product is damaged because not properly maintained as set forth in the instruction manual. No warranty, whether expressed or implied, is given or made with respect to any accessory supplier with products described above. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided.; and under no circumstances shall W&T be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product. This warranty is the only written warranty applicable to W&T International Ltd... Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published. W&T reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

SPECIFICATIONS

Electrical

Input voltage:	90-260V AC 50/60Hz
Power supply:	Built-in switch power supply
Power consumption:	50W max.

Photometric

Light source:	176 pcs ø5 super bright RGB LEDs
LED lifetime:	80,000 hours

Effects

30 built-in programs/patterns selectable via DMX desk or at auto run mode

Fast strobe (speed adjustable), sound-activated

Auto run programs speed adjustable

Strobe and dimming functions

Control

Control mode:	Universal DMX512; Auto run; Sound activation
Control panel:	LCD control panel
DMX channel:	8 channels
DMX connector:	3-pin XLR input/output connector
Data output:	4-pin data output

Physical & Construction

Curtain material:	Flame retardant (SGS certified), heavy duty cloth
Curtain size:	3,000 x 2,000 mm
Curtain net weight:	6.5 kg
Curtain color:	Black

Controller box size:	265L x 178W x 61H mm
Net weight:	1.2 kg
Controller color:	Matt black

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