

Butterfly M effect lights



User Manual

Ver1.0

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CAUTION !

Keep this device away from rain and moisture
Unplug mains lead before opening the housing

Every person involved with installation, operation and maintenance of this fixture has to

- be qualified
- follow the instruction of this manual
- consider this manual to be part of the total product
- Keep this manual for the entire service life of the product
- pass this manual to every future owner or user of the product

INTRODUCTION

Thank you for choosing our fixture, if you follow up the instruction given in this manual we are sure that you will enjoy this product for a long period of time

SAFETY INSTRUCTION

CAUTION!

Be careful with your operations, With a dangerous voltage you can suffer a dangerous electric

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instruction and warning notes written in this user manual.

Important: Damages caused by the disregard of this user manual are not subject to warranty, the dealer will not accept liability for any resulting defects or problems. If the device had been exposed to drastic temperature fluctuations (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature. Please make sure that there are no obvious transport damages, should you notice any damages on the AC connection cable or on the casing, do not take the device into operation and immediately consult your local dealer.

The device falls under protection-class. The power plug must only be plugged into a protection class I outlet. The voltage and frequency must exactly be the same as stated on the device. Wrong voltages or

power outlets can lead to the destruction of the device and mortal electrical shock. Always plug in the power plug last. The power plug must always be inserted without force. Make sure that the plug is tightly connected with the outlet.

Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution! Never touch them with wet hands. As this could lead to mortal electrical shock. Never modify, bend, strain mechanically, put pressure on, pull or heat up the power cord. Never operate next to sources of heat or cold. Disregard can lead to power cord damages, fire or mortal electrical shock. The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to mortal electrical shock. Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time. If extension cords are used, make sure that the core diameter is sufficient for the required power consumption of the device. All warnings concerning the power cords are also valid for possible extension cords.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord. Otherwise, the cable or plug can be damaged leading to mortal electrical shock. If the power plug or the power switch is not accessible, the device must be disconnected via the mains. If the power plug or the device is dusty, the device must be taken out of operation, disconnected and then be cleaned with a dry cloth. Dust can reduce the insulation which may lead to mortal electrical shock. More severe dirt in and at the device should only be removed by a specialist.

There must never enter any liquid into power outlets, extension cords or any holes in the housing of the device. If you suppose that also a minimal amount of liquid may have entered the device it must immediately be disconnected. This is also valid, if the device was exposed to high humidity. Also if the device is still running, the device must be checked by a specialist if the liquid has reduced any insulation. Reduced insulation can cause mortal electrical shock. There must never be any objects entering into the device. This is especially valid for metal parts. If any metal parts like staples or coarse metal chips enter into the device, the device must be taken out of operation and disconnected immediately. Malfunction or short-circuits caused by metal parts may cause mortal injuries. Never look directly into the light source, as sensitive persons may suffer an epileptic shock (especially meant for epileptics). Keep away children and amateurs. Never leave this device running unattended.

OPERATING DETERMINATIONS

This device is designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects. Do not shake the device. Avoid brute force when installing or operation the device. Never lift the fixture by holding it at the projector-head. As the mechanics may be damaged. When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cable lying around. Please make sure that the fixture can not be touched or bumped. You endanger your own and the safety of others.

This device must never be operated or stockpiled in surroundings where splash water, rain, moisture or fog may harm the device. Moisture or very high humidity can reduce the insulation and lead to mortal

electrical shocks. When using smoking machines, make sure that the device is never exposed to the direct smoke jet and is installed in a distance of 0.5 meters between smoke machine and device. The room must only be saturated with an amount of smoke that the visibility will always be more than 10 meters.

The ambient temperature must always be between -5°C and $+45^{\circ}\text{C}$. keep away from direct insulation(particularly in cars)and heaters .The relative humidity must not exceed 50% with an ambient temperature of 45°C . This device must only be operated in an altitude between -20 and 2000m over NN. Never use the device during thunderstorms. Over voltage could destroy the device. Always disconnect the device during thunderstorms.The Symbol determines the minimum distance from lighted objects. The minimum distance between light output and the illuminated surface must be more than this value. The device must only be installed on a non-flammable surface, In order to safeguard sufficient ventilation, leave 50 cm of free space around the device.

The housing must never touch surrounding surfaces or objects. Make sure that the area below the installation place is blocked when rigging, dragging or servicing the fixture. For overhead use (mounting height $>100\text{cm}$), always fix the fixture with an appropriate safety-rope. Fix the safety-rope at the correct fixation points only. The safety-rope must never be fixed at the transport handles. Only operate the fixture after having check that the housing is firmly closed and all screw are tightly fastened.

The maximum ambient temperature $T_a=45^{\circ}\text{C}$ must never be exceeded. Operate the device only after having become familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation. Please use the original packaging if the device is to be transported. Please consider that unauthorized modifications on the device are forbidden due to safety reasons! Never remove the serial barcode from the device as this would make the guarantee void. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

DESCRIPTION OF THE DEVICE

Features

- > 11 channel DMX-512 .
- > Pan : 630° /tilt: 180° .
- > Variable electronic strobe.
- > Variable electronic dimmer(0-100%).
- > LED display menu with invert.
- > Reset to factory settings option.
- > Pan/tilt invert option.
- > Fan cooled.

INSTALLATION

Rigging

The installation of the projector has to be built and constructed in a way that it can hold 10 times the

weight for 1 hour without any harming deformation.

IMPORTANT!OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property. The projector had to be installed out of the reach of people

DANGER OF FIRE! When installing the device, make sure there is no highly-inflammable material(decoration articles, etc.)within a distance of min.0.5m.

DMX 512 connection/ connection between fixture

The wires must not come into contact with each other, otherwise the fixture will not work at all or properly. Please note the starting address depends upon which controller is being used. Only use a DMX cable and 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture to another

Occupation of the XLR-connection:



Connection with the mains.

The occupation of the connection-cables is as follows:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	

The earth has to be connected. The device must only be connected with an electric installation carried out in compliance with IEC standards.

OPERATION

After you connected the effect to the mains, The fixture starts running

Stand Alone operation

In the stand alone mode, the fixture can be use without controller

Master/slave-operation

The master/slave-operation enables that several devices can be synchronized and controlled by one master-device

DMX controlled operation

You can control the projectors individually via your DMX-controller

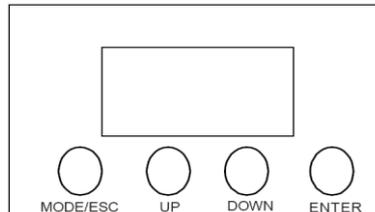
Addressing

The control board allows you to assign the DMX starting address,

Note;it's necessary to insert the XLR termination plug (with 120ohm) in the last device in the link in order to ensure proper transmission on the DMX data link.

CONTROL BOARD

The control board offer several features :you can simple set the starting address, run the pre-programmed program or make a reset



he main menu is accessed by pressing the Mode/Esc-button, Browse through the submenu by pressing Up or Down .Press the Enter-button in order to select the desired menu. You can change the selection by pressing Up or Down, Confirm every selection by pressing the Enter-button. You can leave every mode by pressing the Mode/Esc-button .The functions provided are described in the following setting.

MENU MAP

The device has two operation modes, It can be operated in Stand Alone or in DMX controlled

- A1** Red LED on, motor moving with increasing speed
- A2** Green LED on, motor moving with increasing speed
- A3** Blue LED on, motor moving with increasing speed
- A4** White LED on, motor moving with increasing speed
- A5** Color change mode 1 with decreasing speed, motor moving with increasing speed
- A6** Color change mode 2 with decreasing speed, motor moving with increasing speed
- A7** Fade change with decreasing speed, motor moving with increasing speed
- A8** Strobe, motor moving with increasing speed
- S1** **Sound control 1, if no sound then turn to auto mode with color change**
- S2** Sound control 2, if no sound then lights off and motor stopping moving

A 001-512 DMX or Slave

Note: output default setting address code is A001, pan is positive circumrotate、 tilt is positive circumrotate、 LED positively reveal.

Master/slave mode(auto-running、 sound control)

.This mode will allow you to link up 32 units together without a controller.

.Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of t

DMX-protocol

Channel	Value	Function
1	0-5	Strobe No function
	6-249	Strobe with decreasing speed
	250-255	No function
2	0-255	Red Red dimming
3	0-255	Green Green dimming
4	0-255	Blue Blue dimming
5	0-255	White White dimming
6	0	Motor No function
	1-127	Motor moving
	128-255	Motor moving speed adjustment from slow to fast
7	0-5	Color Macros Work for Channel 1 to Channel 3
	6-42	Red on and motor with increasing speed
	43-80	Green on and motor with increasing speed
	81-117	Blue on and motor with increasing speed
	118-155	White on and motor with increasing speed
	156-205	Color change with decreasing speed, motor slow to fast
	206-250	Fade change with decreasing speed, motor slow to fast
	250-255	Sound control

TECHNICAL SPECIFICATIONS

Model	Butterfly M effect lights
Voltage	110V- 250V / 50-60Hz
Power consumption:	20W
LED	3pcsX3w RGB 3 in 1 COB LEDs
Gross Weight	3.5Kgs
Dimensions	28(H) x 22(W) x 27(L) mm