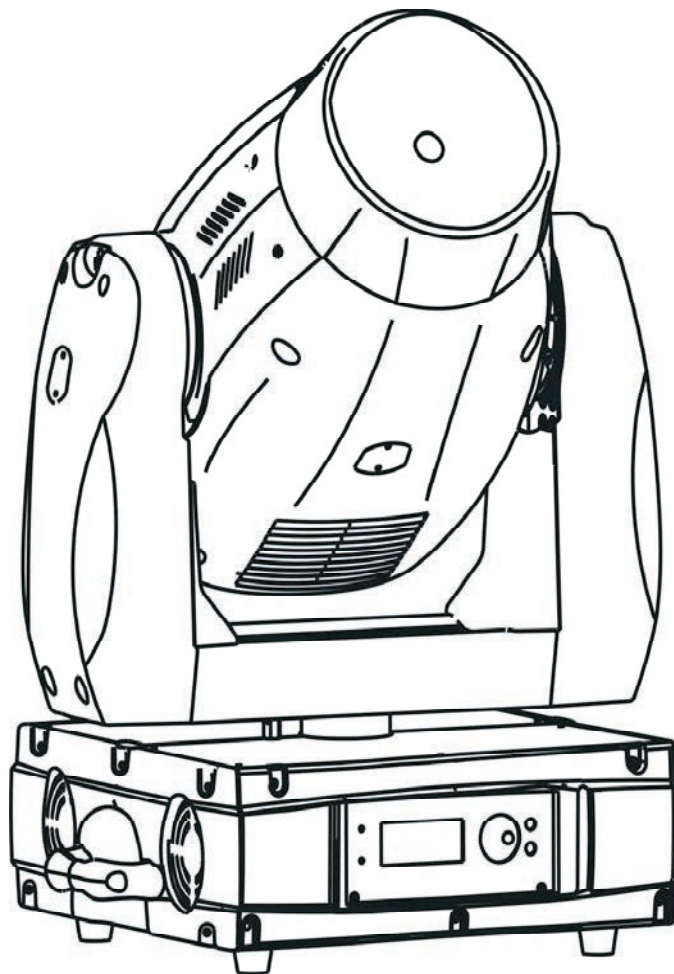


# ELECTRA<sup>▼</sup>LIGHT

## USER MANUAL

BEAM 300  
BEAM 700





## CONTENTS

<b>1. Safety Instruction.....</b>	<b>01</b>
<b>2. General Guidelines.....</b>	<b>01</b>
<b>3. Technical Specification.....</b>	<b>02</b>
<b>4. Safety Operations.....</b>	<b>03</b>
<b>5. Connection of Fixtures.....</b>	<b>04</b>
<b>6. Control Mode.....</b>	<b>05</b>
<b>6.1 DMX Addressing.....</b>	<b>06</b>
<b>6.2 LCD Menu Display Instruction.....</b>	<b>07</b>
<b>7. DMX Channe Assignments.....</b>	<b>08</b>
<b>8. Installation of Fixtures.....</b>	<b>13</b>
<b>9. Maintenance an d Cleaning.....</b>	<b>14</b>
<b>10. Wiring Diagram.....</b>	<b>15</b>

Thank you for purchasing our product

## SAFETY INSTRUCTION

For your own safety, please read this user manual carefully before installing the device.



### Caution!

**Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!**

### Keep this manual for future needs

- Be carefully read this user's manual before install and operate
- It is absolutely necessary for the user to follow the safety instructions
- Make sure all staffs related with installation, operation, and carriage and warehouse are qualified.
- Please check carefully that there is no damage caused by transportation. Should be any damage, consult your dealer and don't install this device.



### Caution!

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

The applicable voltage for the lighting is between AC110-240V 50-60Hz / Electronic ballast, 230V/50Hz/Magnetic ballast. Never use it when thundering and make sure it installing and operating this device on the applicable temperature between -5 °C ~ 45 °C, there is no highly inflammable material within a distance of min.1.5m. While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture and dust.

## GENERAL GUIDELINES

### Warning!

**Operate the device only after having familiarized with its functions. Do not permit operation by person not qualified for operating the device. Most damages are result of unprofessional operation!**

- 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, burns due to ultraviolet radiation, lamp explosion, crash etc.
- Read the instructions carefully before turning on the power or install this device, in order to maintain this condition and ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions, and warning notes written in this manual.

### Keep yourself and others from electric shocks.

- Disconnect to the fixture from AC power before change to lamp, fuse and no any equipments are

operating.

- For protection from electronic shock, the fixture must be earthed!
- Install a suitable plug on a power cord, install overload devices. The earth has to be connected!

## **Prevent you and the safety of others by ultraviolet radiation and lamp explosion.**

- Do not operate the moving head light with strong light without optical lens filter and can be released directly.
- Danger!** Install the lamp with the device switch off only. Make sure the temperature of light body should not be obviously higher than the surrounding temperature.  
Noted that change lamp, leave the device switch off until it has reached to room temperature.
- Avoid looking directly into the light source when the fixture was put power on.

## **Prevent you own and others burn or installation-spot catch fire.**

- Avoid to both TDS (temperature detect switch) and fuse direct shock-circuit, for placement use TDS and fuses of same type and rating only.
- Fixtures cannot be installed on combustible substances (alcohol, gasoline and paper), keep more than 1m distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.
- The minimum distance between light output and the illuminated surface must be more than 1 meter
- Never installation optical filter and others on the internal 3-lens.
- If the device has been exposed to drastic temperature fluctuation (e.g. 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 use original packaging if the device is to be transported. For safety reasons, please be aware that all modifications on the device were forbidden.
- The maximum ambient temperature 40 °C must never be exceeded.

## **Prevent you own and the safety of others by the device was crashed.**

- Never lift the fixture by holding it by oneself.
- Always fix the fixture with an appropriate safety rope and holder
- Anytime, installing and taking down the fixture, when rigging, de-rigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered area is forbidden.

## **TECHNICAL SPECIFICATIONS**

- Light Source: Philips MSR 300 FASTFIT
- Input voltage: AC100-240 50-60Hz
- Control channels: 16/24CH
- XY Movement: Pan 540° (16 bit), Tilt 280° (16 bit)
- CMY color mixing system
- Color Wheel: 8 replaceable colors plus white, bi-direction revolving rainbow effects available  
30 preset CMY color mixing wheels and color macro-asynchronous available

- Rotating Gobo Wheel: 6 replaceable colors plus white, with shaking function and random position function available
- Prism: 3-facet prism, forward and reverse rotation available and reposition function
- Strobe: variable strobing 10 flash per sec, inside strobe macro-function
- Dimmer: 0~100% linear adjustable
- Frost: 0~100% linear adjustable
- LCD Display: displaying brightness adjustable (0~100%)
- Electronic ballast: auto energy saving and environmental protected
- Electronic Ballast: AC100~240V, 50/60HZ
- Magnetic Ballast: 230V/50Hz
- Dimension: 539×440×450mm
- Net weight: 25Kg

## **SAFETY OPERATIONS**

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 safety instructions.

Don't permit to operation by persons not qualified for removal or replace to the internal spare parts( machine parts and original PCB). It shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid hazard. Please contact with dealer if have some problems.

Please be aware that damages caused by manual modifications to the device are not subject of warranty.

### **The lamp**

-For the installation, it fits with Philips MSD GOLD 300/2 Mini FastFit, or Philips MSR Gold 300/2 Mini FastFit. This high energy arc light with stable color temperature 8200K, color reproduce index is more than 90, and the working life up to 2,000hrs, or 750hrs.

#### **Warning!**

-Make sure use lamp of same type only.

The lamp life expectancy is 2,000hrs, or 750hrs. For safety concerns, please replace a new lamp when the used average life span of lamp more than 125% (940 hours).

Before replacing the lamp, make sure the lamp cools down.

### **Replacing lamp**

#### **Warning!**

-During installation of halogen lamps, do not touch the glass bulb with hand. Please consult dealers for right way to installing the lamp.

-Make sure your hands are clean when cleaning the lamp. Always use alcohol wiping and use a cloth to handle the lamp during insert or removal, do not touch it until the alcohol volatilized completely.

Please get right instructions to installing the lamp from dealers.

### Installing or replacing the lamp

**CAUTION!**

**Be careful with your operations. With a dangerous voltage will suffer burn, caused fire!**

- Please notice that the lamp is not a hot-restrict type, and wait approximately 15 minutes after having turned off the lamp before you can turn it back on again.
- Make sure switch off before installation or replace the lamp. Never touch it by bare hands when installing or replacing. Please use a Philips MSD GOLD 300/2 Mini FastFit or Philips MSR GOLD 300/2 Mini Fastfit, replacing it use same type too.
- Unscrew **Screw marked A** on the back of lamp-holder, it used to remove the lamp panel to replace the lamp. It is can reach an excellent effects to fine-tuning screw on the back of lamp panel mark X, Y and Z, which used for adjust to the lamp.

### Connection of Fixtures

**Notice!**

Connect one signal input with one signal output.

This fixture is equipped with 3-Pin XLR Sockets for DMX Input and output. Re 3 Pin DMX in & out XLR Socket, Pin 1 refers to Ground, Pin 2: Signal-, Pin 3: Signal + (as Graphs below):

**DMXOutput****DMXInput**

- The signal sockets are wired in parallel: one input, one output.

**Mounting the device**

- DMX512 always used STP (shielded twisted pair). Please advice use big cable or install DMX distributor during long distance use standard cable.
- Do not separate one DMX Output into two Outputs.
- Do not connect overloaded. The max connected BEAM300 in each DMX Chain is 32 pcs.
- There should be a terminator on the last unit of DMX line. A terminator is a 120 ohm 1 watt resistor which is a connection between Pin 2 and Pin 3 of a Male XLR connector Using a cable terminator will decrease the possibility of erratic behavior

**DMX512 Connection**

- Please connect 3-pin XLR connector to 3 Pin socket for DMX IN
- And DMX OUT of former fixtures connects to DMX IN of the next fixture in the DMX Chain with the same compatible DMX Cable in the DMX-output of the fixture.

-There should be a terminator on the last unit of DMX Chain.

### Connection to the Mains

Before use this fixture safely, please install a suitable plug on the power cord, and make sure the fixture is appropriately earthed.

Please refer to the following table:

Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

## CONTROL MODE

DMX address of fixtures ranges from 001-504/488. Please note that the maximum range should not exceed 504/488.

### DMX Addressing

Please set DMX Address of fixture on LCD Display

For example, selecting **16BIT MODE 1**, then the DMX Address of the first light is 001 (001-024).

The second one will display 017(015-039), and so on.

### Caution:

It's necessary to insert the XLR terminator (by connecting a 1/4W 120Ω between signal PIN-2/ +3) on the last fixture of a DMX Chain to avoid possible signal interference.

### LCD Menu Display Instruction

#### Function Mode:

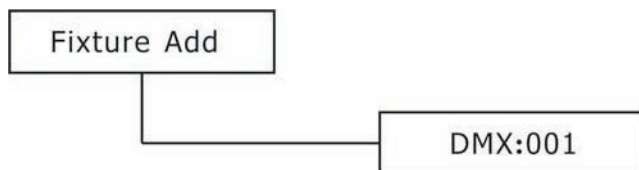
MHG LIGHTING

Press button **ENTER** to enter Menu, and press button **ESC** back to display setting:

MHG LIGHTING

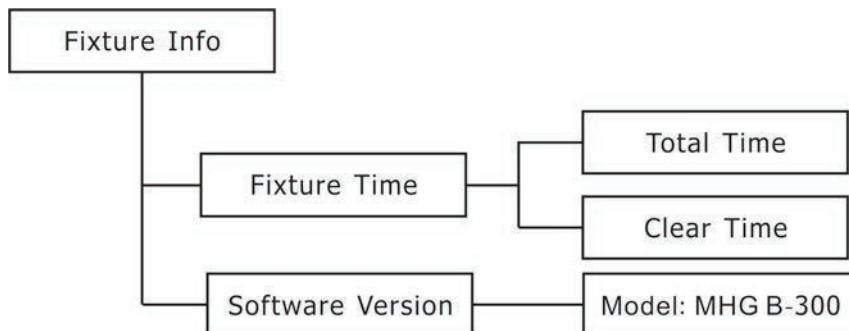
There are corresponding submenus for specific function under the main menu. For details, please refer to Graph below:

**-It is used to set DMX Address of fixtures from 0-511.**



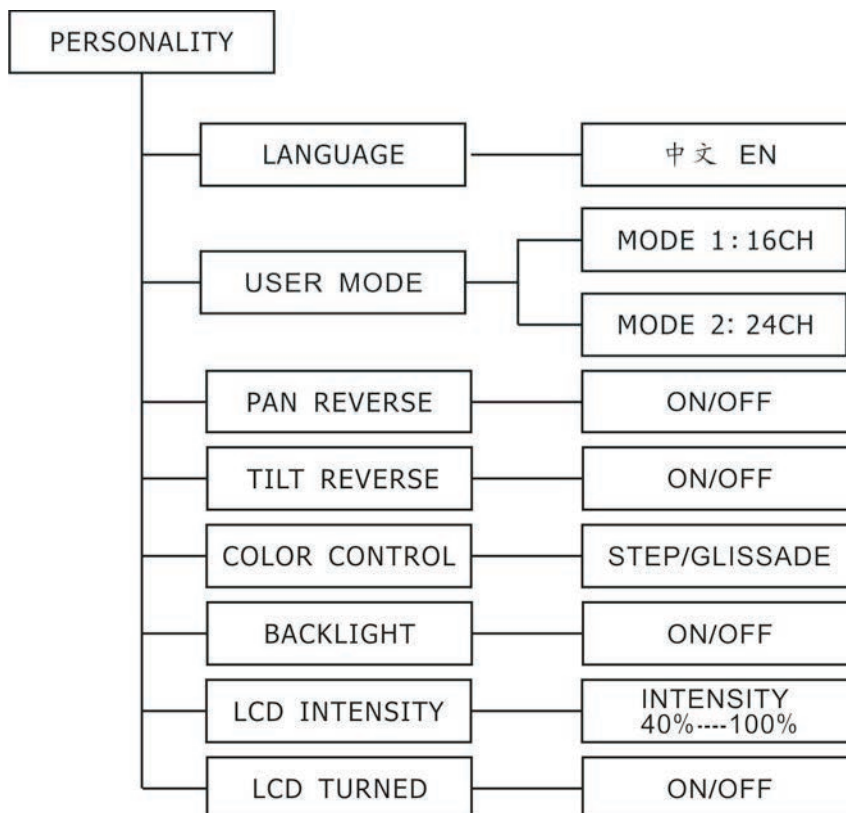
**-It displays fixture Info.**





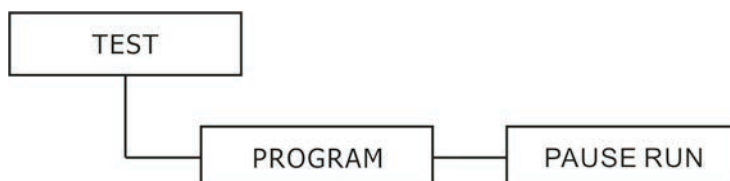
After entering above Menu, please button **ENTER** to enter, turn the Rotating Wheel to make specific Selections, and press button **Enter** to confirm, or button **ESC** to exit.

**This menu is to modify running mode or operation status of this fixture.**



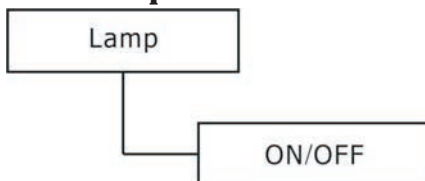
After entering above Menu, please button **ENTER** to enter, turn the Rotating Wheel to make specific Selections, and press button **Enter** to confirm, or button **ESC** to exit.

**-Use this menu to run a special demo-test sequence.**



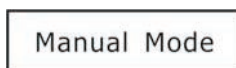
After entering above Menu, please button **ENTER** to enter, turn the Rotating Wheel to make specific Selections, and press button **Enter** to confirm, or button **ESC** to exit.

**-Use this option in order to switch On/Off the lamp manually.**



After entering above Menu, please button **ENTER** to enter, turn the Rotating Wheel to make specific Selections, and press button **Enter** to confirm, or button **ESC** to exit.

**-Select this menu, fixtures can be controlled manually. The definition of each channel is as below:**



## DMX CHANNELS:

CH1	PAN (A COARSE PAN MOVEMENT)
CH2	TILT (A COARSE TILT MOVEMENT)
CH3	PAN (A FINE PAN MOVEMENT)
CH4	TILT FINE (A FINE TILT MOVEMENT)
CH5	XY (A PAN/TILT SPEED)
CH6	COLOR WHEEL (A COLOR WHEEL)
CH7	COLOR WHEEL FINE (A FINE COLOR WHEEL)
CH8	CYAN (CYAN)
CH9	MAGENTA (MAGENTA)
CH10	YELLOW (YELLOW)
CH11	CMY SPEED (CMY SPEED)
CH12	CMY MACRO (CMY MACRO)
CH13	FIXD GOBO (A COLOR-GOBO WHEEL)
CH14	GOBO INDEX (A INDEXING GOBO WHEEL)
CH15	GOBO RT (A ROTATING GOBO WHEEL)
CH16	PRISM (PRISM)
CH17	PRISM INDEX (A INDEXING PRISM)
CH18	PRISM ROT (A ROTATING RPISM)
CH19	FROST (A FROST)
CH20	SHUT (S SHUTTER, STROB)
CH21	DIMMER (A DIMMER)
CH22	DIMMER FINE (A FINE DIMMER)
CH23	LAMP (A LAMP ON/OFF)
CH24	RESET (RESETTING)

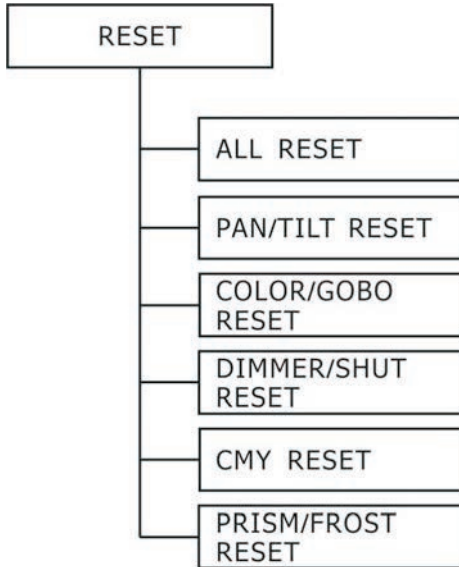
After entering above Menu, press button **ENTER** to enter, turn the Rotating Wheel to make specific Selections, and press button **Enter** to confirm, or button **ESC** to exit.

## Procedure:

-Select the program and press **ENTER**, Press **【UP】** or **【DOWN】** to select the program you wish CH1---PAN(a coarse pan movement), by pressing ENTER again to display:

X : 000

- Change the value from 0-255 via the Rotating Wheel to select the effect; press **ENTER**, reserve the value (After exit the menu, all the DMX value will be 0); When there is DMX signal, the manual mode always has the priority, When exit the manual mode, the fixture will be back to the DMX value.
- Select the program you wish and press **ENTER**. The selected program starts running. By Pressing **ENTER** again is possible to pause the program running. You can exit every mode by pressing the **Mode/ESC**-button. The function provided is described in the following sections:



Accessed to the menu as above, by pressing **ENTER** and display:

RESETTING

### DMX CHANNEL Assignments

MODE1: 16CH

16CH BEAM300 DMX PROTOCOLS			
CHANNEL	DMX VALUE	FUNCTION	REMARK
<b>CH1--PAN</b>	0--255	0°--540°	
<b>CH2--TILT</b>	0--255	0°--280°	
<b>C3--XY SPEED</b>	0--250	XY Speed from fast to slow	
	251--255	XY Fast speed	
<b>CH4--COLOR WHEEL</b>	0--13	White	
	14--27	Color 1	
	2 28--41	Color 2	
	3 42--55	Color 3	
	4 56--69	Color 4	
	5 70--83	Color 5	
	6 84--97	Color 6	
	98--111	Color 7	

<b>16CH BEAM300 DMX PROTOCOLS</b>			
<b>CHANNEL</b>	<b>DMX VALUE</b>	<b>FUNCTION</b>	<b>REMARK</b>
<b>CH4--COLOR WHEEL</b>	112--127	Color 8	
	128--189	Color wheel change colors clockwise from fast to slow	
	190--193	Stop	
	194--255	Color wheel change colors anti-clockwise from slow to fast	
<b>CH5--CYAN</b>	196--255	White-Cyan	
<b>CH6--MAGENTA</b>	0--255	White-Magenta	
<b>CH7--YELLOW</b>	0--255	White-yellow	
<b>CH8--CMY SPEED</b>	0--255	CMY speed from fast to slow	
<b>CH9--ROTATING GOBO</b>	0--9	Open	
	10--19	Gobo 1	
	2 20--29 Gobo		
	3 30--39 Gobo		
	4 40--49 Gobo		
	5 50--59 Gobo		
	6 60--69 Gobo		
	70--89	Gobo 1 shaking	
	90--109	Gobo 2 shaking	
	110--129	Gobo 3 shaking	
	130--149	Gobo 4 shaking	
	150--169	Gobo 5 shaking	
	170--189	Gobo 6 shaking	
	190--255	Gobo rotating from slow to fast	
<b>CH10--GOBO RT</b>	0--127	Fine positioning	
	128--189	Forwards Gobo wheel rotation from fast to slow	
	190--193	Stop	
	194--255	Backwards Gobo wheel rotation from fast to slow	
<b>CH11--PRISM</b>	0--127	Open	
	128--255	Prism	
<b>CH12--PRISM RT</b>	0--127	Prism position	
	128--189	Prism rotating clockwise from fast to slow	
	190--193	Stop	
	194--255	Prism rotating anti-clockwise from slot to fast	
<b>CH13--FROST</b>	0--255	Frost	
<b>CH14--SHUT</b>	0—1	Shutter close	
	2—7	Shutter open	

<b>16CH BEAM300 DMX PROTOCOLS</b>			
<b>CHANNEL</b>	<b>DMX VALUE</b>	<b>FUNCTION</b>	<b>REMARK</b>
<b>CH14--SHUT</b>	<b>8--63</b>	<b>Strobe from slow to fast</b>	
	<b>64--71</b>	<b>Shutter open</b>	
	<b>72--127</b>	<b>Strobe fade in from fast to slow</b>	
	<b>128--135</b>	<b>Shutter open</b>	
	<b>136--191</b>	<b>Strobe fade out from slow to fast</b>	
	<b>192--199</b>	<b>Shutter open</b>	
	<b>200--253</b>	<b>Radon strobe from slot to fast</b>	
	<b>254--255</b>	<b>Shutter open</b>	
<b>CH15--DIMMER</b>	<b>0--255</b>	<b>0%--100%</b>	
<b>CH16--FUNCTION</b>	<b>0--39</b>	<b>Nofunction</b>	
	<b>40--58</b>	<b>Lamp on</b>	
	<b>59--78</b>	<b>Lamp off</b>	
	<b>79--98</b>	<b>X/Y tilts reset</b>	
	<b>99--118</b>	<b>Color wheel/gobo wheel reset</b>	
	<b>119--138</b>	<b>Dimmer/strobe reset</b>	
	<b>139--158</b>	<b>C/M/Y reset</b>	
	<b>159--178</b>	<b>Prism/Frost reset</b>	
	<b>179--198</b>	<b>All reset</b>	
	<b>199-255</b>	<b>No function</b>	

**MODE2: 24CH**

<b>24CH BEAM300 DMX PROTOCOLS</b>			
<b>CHANNEL</b>	<b>DMX VALUE</b>	<b>FUNCTION</b>	<b>REMARK</b>
<b>CH1--PAN</b>	<b>0--255</b>	<b>0°--540°</b>	
<b>CH2--TILT</b>	<b>0--255</b>	<b>0°--280°</b>	
<b>CH3--PAN FINE</b>	<b>0--255</b>	<b>0°--10°</b>	
<b>CH4--TILT FINE</b>	<b>0--255</b>	<b>0°--5°</b>	
<b>CH5--XY SPEED</b>	<b>0--250</b>	<b>XY speed from fast to slow</b>	
	<b>251--255</b>	<b>XY fast speed</b>	
<b>CH6--COLOR WHEEL</b>	<b>0--13</b>	<b>White</b>	
	<b>14--27</b>	<b>Color 1</b>	
	<b>28--41</b>	<b>Color2</b>	
	<b>42--55</b>	<b>Color3</b>	
	<b>56--69</b>	<b>Color4</b>	
	<b>70--83</b>	<b>Color5</b>	
	<b>84--97</b>	<b>Color 6</b>	

24CH BEAM300 DMX PROTOCOLS			
CHANNEL	DMX VALUE	FUNCTION	REMARK
<b>CH6--COLOR WHEEL</b>	98--111	Color 7	
	112--127	Color8	
	128--189	Color wheel rotating clockwise from fast to slow	
	190--193	Stop	
	194--255	Color wheel rotating anti-clockwise from slow to fast	
<b>CH7--COLOR FINE</b>	0--255	Color wheel fine	
<b>CH8--CYAN</b>	196--255	0-100% Cyan	
<b>CH9--MAGENTA</b>	0--255	0-100% Magenta	
<b>CH10--YELLOW</b>	0--255	0-100% Yellow	
<b>CH11--CMY SPEED</b>	0--255	CMY speed from fast to slow	
<b>CH12--MACRO</b>	0--3	No function	
	4--10	MACRO1	
	11--17	MACRO2	
	18--24	MACRO3	
	25--31	MACRO4	
	32--38	MACRO5	
	39--45	MACRO6	
	46--52	MACRO7	
	53--59	MACRO8	
	60--66	MACRO9	
	67--73	MACRO10	
	74--80	MACRO11	
<b>CH12--MACRO</b>	81--87	MACRO12	
	88--94	MACRO13	
	95--101	MACRO14	
	102--108	MACRO15	
	109--115	MACRO16	
	116--122	MACRO17	
	123--129	MACRO18	
	130--136	MACRO19	
	137--143	MACRO20	
	144--150	MACRO21	
	151--157	MACRO22	
	158--164	MACRO23	
	165--171	MACRO24	
	172--178	MACRO25	

24CH BEAM300 DMX PROTOCOLS			
CHANNEL	DMX VALUE	FUNCTION	REMARK
<b>CH12--MACRO</b>	179--185	MACRO26	
	186--192	MACRO27	
	193--199	MACRO28	
	200--206	MACRO29	
	207--213	MACRO30	
	214--220	MACRO31	
	221--227	MACRO32	
	228--234	MACRO33	
	235--241	MACRO34	
	242--248	MACRO35	
	249--255	MACRO36	
<b>CH13--FIX GOBO</b>	0--9	Open	
	10--19	Gobo 1	
	20--29 Gobo		
	30--39 Gobo		
	40--49 Gobo		
	50--59 Gobo		
	60--69 Gobo		
	70--89	Gobo 1 shaking	
	90--109	Gobo 2 shaking	
	110--129	Gobo 3 shaking	
	130--149	Gobo 4 shaking	
	150--169	Gobo 5 shaking	
	170--189	Gobo 6 shaking	
	190--255	Gobo wheel rotating from slow to fast	
<b>CH14--GOBO INDEX</b>	0--255	Gobo index 360°	
<b>CH15--GOBO RT</b>	0	No function	
	1--127	Gobo clockwise rotating from fast to slow	
	128--129	Stop	
	130--255	Gobo anti-clockwise rotating from slow to fast	
<b>CH16--PRISM</b>	0--127	No function	
	128--255	Prism	
<b>CH17--PRISM INDEX</b>	0--255	Prism index 360°	
<b>CH18--PRISM RT</b>	0	No function	
	1--127	Prism clockwise rotating from fast to slow	

<b>24CH BEAM300 DMX PROTOCOLS</b>			
<b>CHANNEL</b>	<b>DMX VALUE</b>	<b>FUNCTION</b>	<b>REMARK</b>
<b>CH18--PRISM RT</b>	<b>128--129</b>	<b>Shutter open</b>	
	<b>130--255</b>	<b>Prism anti-clockwise from slow to fast</b>	
<b>CH19--FROST</b>	<b>0--255</b>	<b>0-100% frost</b>	
<b>CH20--SHUT</b>	<b>0--1</b>	<b>Shutter close</b>	
	<b>2--7</b>	<b>Shutter open</b>	
	<b>8--63</b>	<b>Strobe from slot to fast</b>	
	<b>64--71</b>	<b>Shutter open</b>	
	<b>72--127</b>	<b>Strobe fade in from fast to slow</b>	
	<b>128--135</b>	<b>Shutter open</b>	
	<b>136--191</b>	<b>Strobe fade out from slow to fast</b>	
	<b>192--199</b>	<b>Shutter open</b>	
	<b>200--253</b>	<b>Radon strobe from slow to fast</b>	
	<b>254--255</b>	<b>Shutter open</b>	
<b>CH21--DIMMER</b>	<b>254--255</b>	<b>Dimming 0-100%</b>	
<b>CH22--DIMMER FINE</b>	<b>0--255</b>	<b>Dimming fine</b>	
<b>CH23--LAMP</b>	<b>0--129</b>	<b>No function</b>	
	<b>130--140</b>	<b>Lamp on</b>	
	<b>141--229</b>	<b>No function</b>	
	<b>230--240</b>	<b>Lamp off</b>	
	<b>241--255</b>	<b>No function</b>	
<b>CH24--FUNCTION</b>	<b>0--78</b>	<b>No function</b>	
	<b>79--98</b>	<b>X/Y tilts reset</b>	
	<b>99--118</b>	<b>Color/Gobo reset</b>	
	<b>119--138</b>	<b>Dimmer/Strobe reset</b>	
	<b>139--158</b>	<b>C/M/Y reset</b>	
	<b>159--178</b>	<b>Prism/Frost reset</b>	
	<b>179--198</b>	<b>All reset</b>	
	<b>199-255</b>	<b>No function</b>	

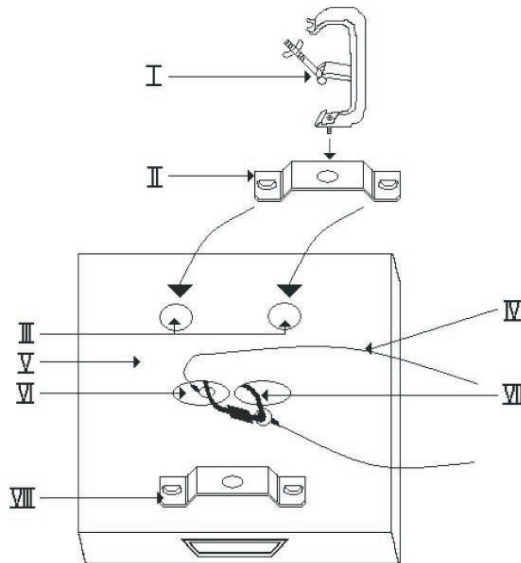
## INSTALLATION OF FIXTURES

The fixture can be placed directly on the stage floor or hung on a truss.



**CAUTION!**

**Use 2 appropriate clamps to hang the fixture on the truss! Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.**

**Installation instruction**

I. Clamp (optional)

II. Omega holder

III. Drill holes

IV. Safety cable (optional)

V. Base

VI. Holes for Safety cable

VII. Safety cable (optional)

VIII. Omega

**Remark:**

**For safety concern, the safety cable should hold at least 12 times of the weight of the fixture. The extended length shall not exceed than 20cm.**

**MAINTENANCE AND CLEANING****DANGER!**

**Disconnect from the mains before starting any maintenance work**

**CLEANING**

- It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!
- The front lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light output very quickly. The cooling-fans should be cleaned mother
- The interior of the fixture should be cleaned at least one time per six month using a vacuum-cleaner or an air-jet.
- Dichroic color filters, CMY filters, gobo wheels and the internal lenses should be cleaned monthly.
- The PCB need to be cleaned every three months sting a soft brush and vacuum-cleaner
- Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner
- Clean the air filters placed in the fixture's covers. Use a vacuum cleaner, compressed air or you can wash and put back dry.

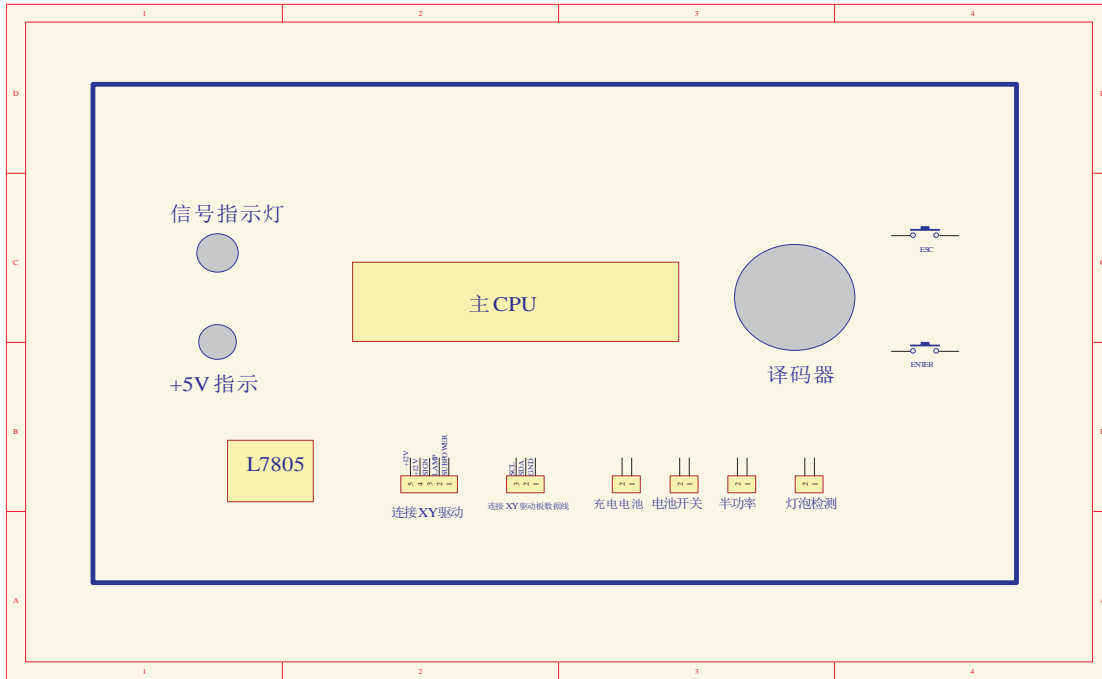
**REPLACE THE FUSE**

The specification (include the current and the voltage) of the fuse must be the same as the original one.

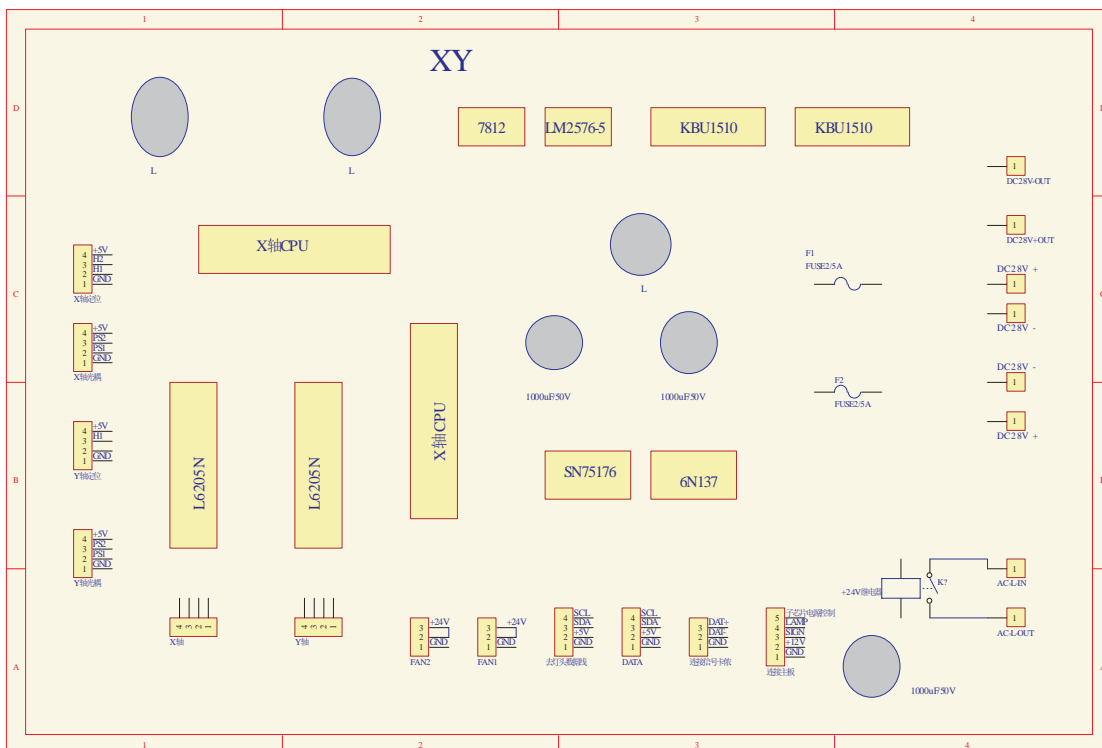
**Notice:BEFORE REPLACING, MAKE SURE THE PLUG IS PULLING OUT TO AVOID THE RISK OF SHOCK!**

## WIRING DIAGRAM

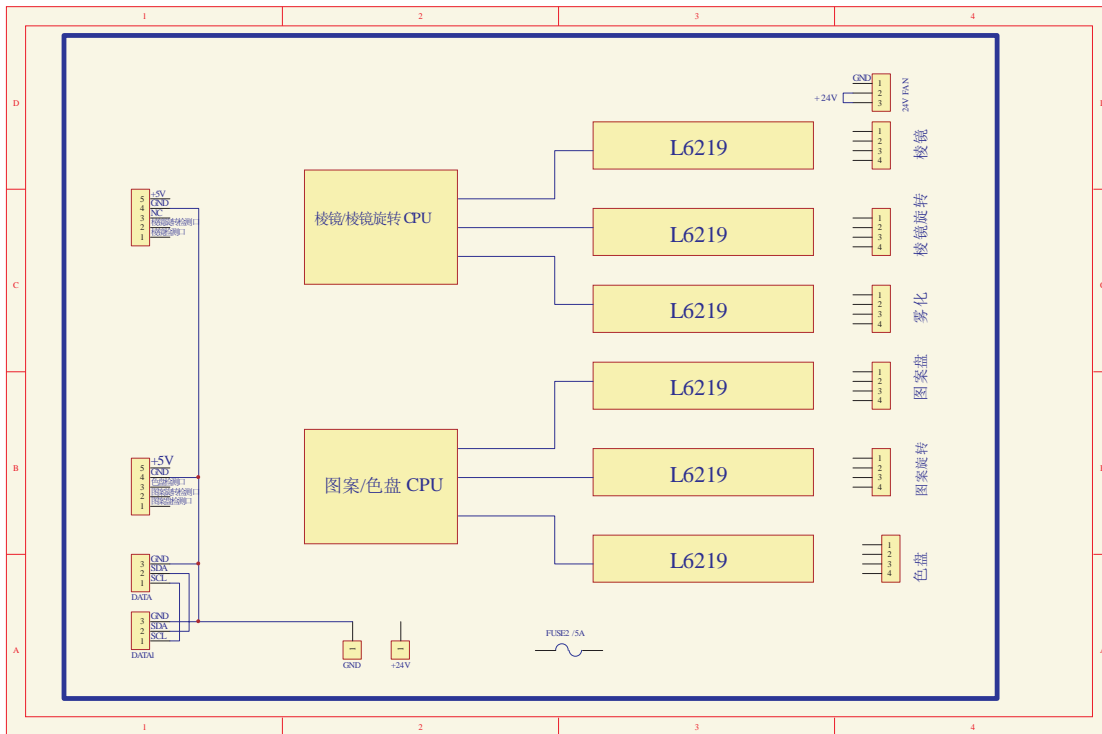
## Beam 300/Beam 700 MAIN PCB WIRING DIAGRAM



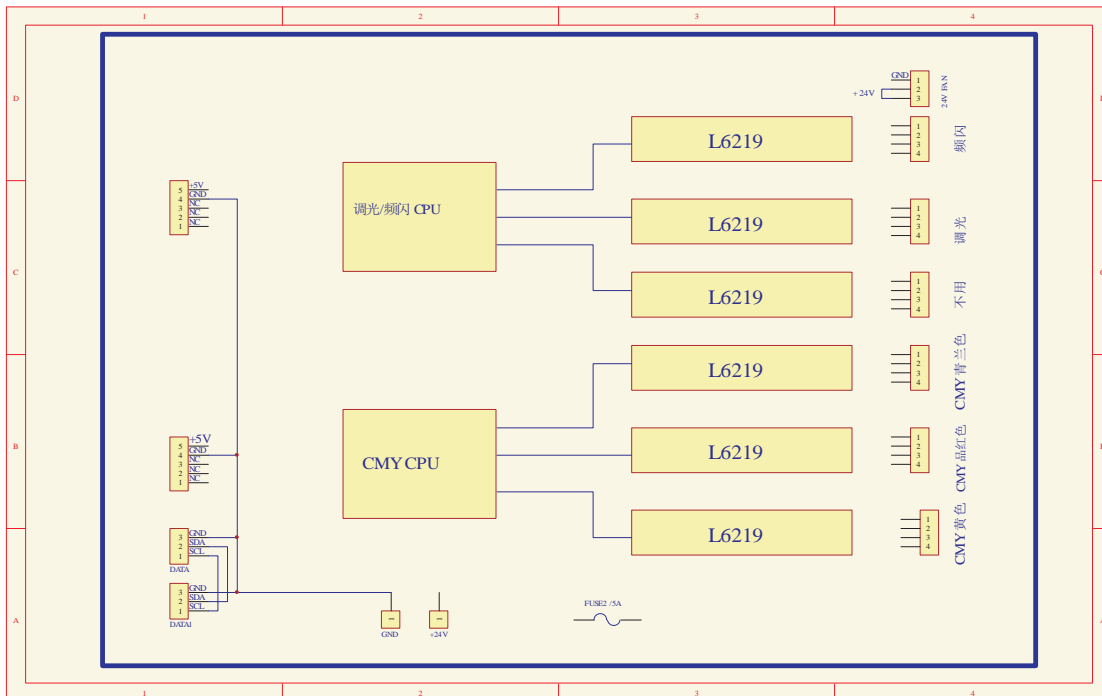
### Beam 300/Beam 700 XY DRIVER WIRING DIAGRAM



**Beam 300/Beam 700 6 ROUTES DRIVER A BOARD WIRING DIAGRAM**



**Beam 300/Beam 700 6 ROUTES DRIVER B BOARD WIRING DIAGRAM**



**Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.**