

CS-M300A LED SPOT LIGHT User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS

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YOUTUBE



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1. SAFETY INSTRUCTIONS

*CAUTION!

Becareful with your operations. With a dangerous voltage you cansuffer a dangerous electric shock when touching wires!

This device has left the factory in 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 instructions 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 has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device.

Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges.

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.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

2. UNPACKING

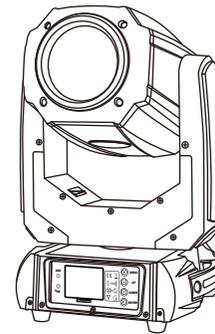
Thank you for choosing CS-M300A SPOT LIGHT.

For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

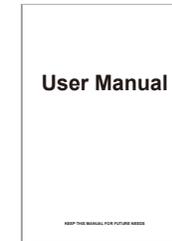
This product uses a 200W LED lamp bead to provide an energy-efficient cooling system. The shell is made of flame-retardant plastic, which is resistant to pressure, fire, fast heat dissipation and light weight.

It is also equipped with a pattern plate that holds 9 patterns. A rotation pattern plate contains 7 color rotation patterns and a 9-color color plate.

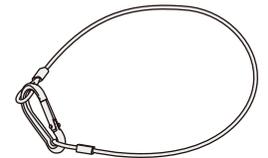
With prisms and focus/fogging effects, this light is often used for stage lighting, event lighting, bar nights and disco lighting, musicals and church lighting.



CS-M300A SPOT LIGHT



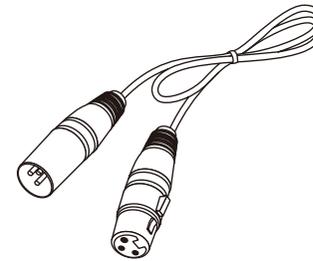
User Manual



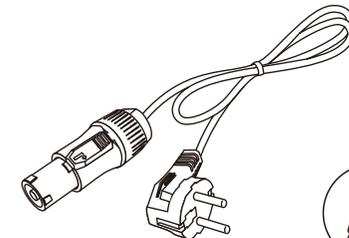
Safety Cable



Omega Clamp



Signal Cable



Euro Standard



USA Standard



UK Standard

Power Cable(Optional)

3. FEATURES & SPECIFICATIONS

Function:

1. Master/Slave
2. Sound activated
3. Auto
4. DMX 512
5. Beam,
6. Atomization,
7. Zoom,
8. Enlarge,
9. Linear color effect,
10. Pattern(Color overlay, Jitter)

Specifications:

LED quantities: 1 pc 200W LED
 Input Voltage: AC90V-220V, 50/60HZ
 Power consumption: 300W
 Channel: 18CH
 Motorized zoom: From 0 degree to 4 degree
 Pan/Tilt: 540 degree/180 degree
 Color: 9 kinds color(Red/Green/Blue/Shallow
 Magenta/Yellow/Bright green/Light blue/
 Magenta/Oranger)+white

Fixed pattern disk:



Rotate pattern disk:

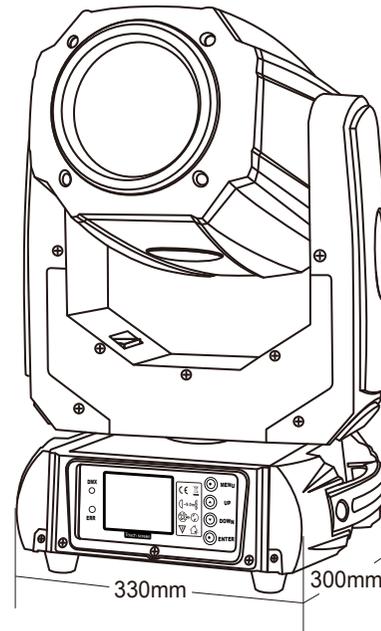
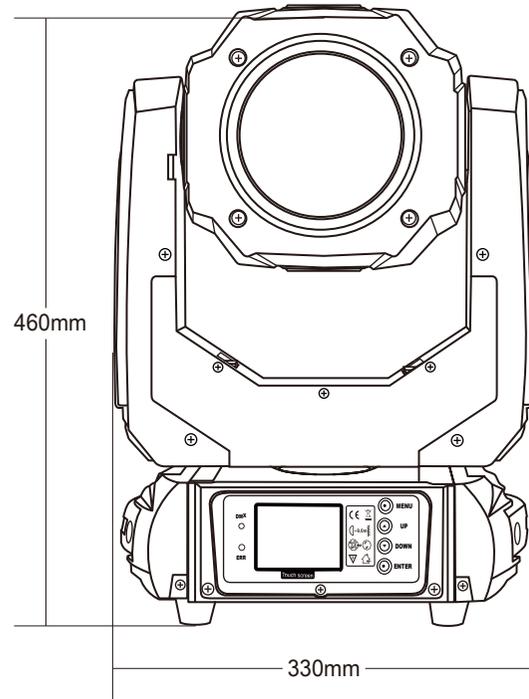


Display: LCD display

Material Science: ABS fire resistant plastics

Packing & weight:

Size: 300mm*330mm*460mm
 Net Weight: 14.5kg
 Packing: 515mm*440mm*725mm
 Gross weight: 16kg



4. OPERATION INSTRUCTIONS

CS-MC100(LED SIX BEE LIGHT) is a mini type bee moving head.

01. Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
02. This light should be keep away from strong shaking during any transportation or movement.
03. Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
04. Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
05. Make sure the installation place is in good safety condition before installing the fixture.
06. Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
07. Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
08. Make sure the fixture is operated by qualified personnel who knows the fixture before using.
09. Keep the original packages if any second shipment is needed.
10. Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
11. It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

5. INSTALLATIONS

Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel. Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.

from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

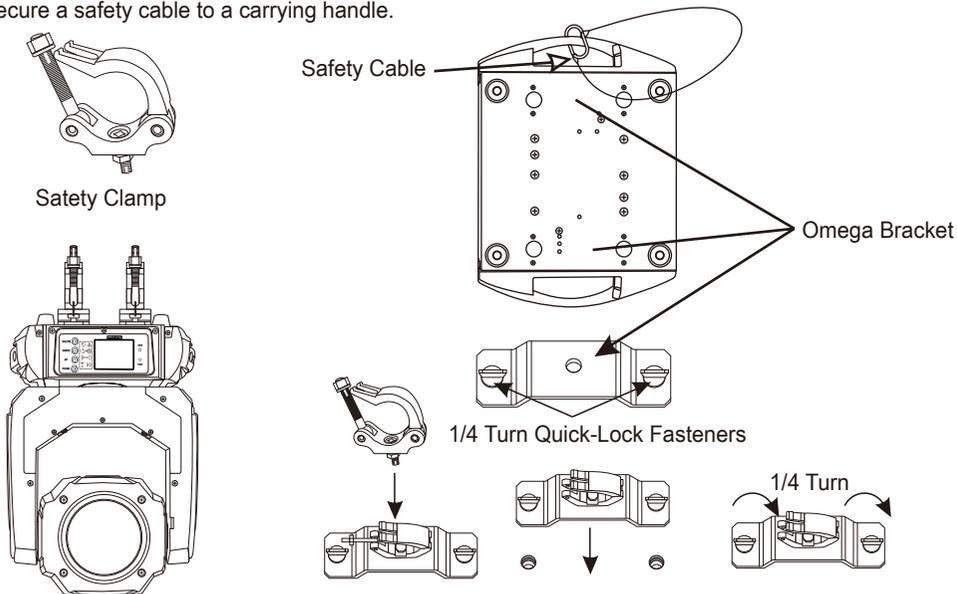
Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points: Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting: The product provides a unique mounting bracket assembly that integrates the bottom of the base, the included "Omega Bracket," and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "omega bracket". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly

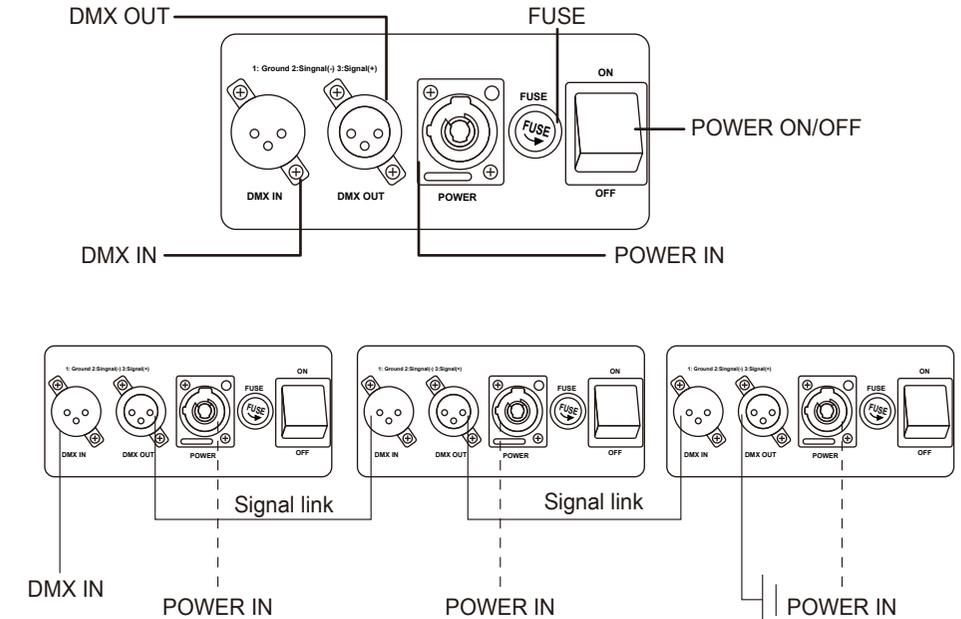
Regardless of the rigging option you choose for your , always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.



6. DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator



*Important Notes!

Please do not link more than this Product at AC220V voltage!

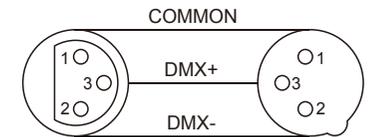


DMX Output
3-Pin XLR Socket



DMX Input
3-Pin XLR Socket

- 1: Ground
- 2: Data(-)
- 3: Data(+)

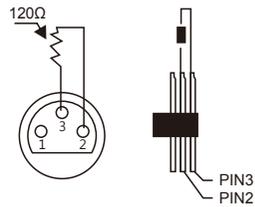


DMX512 OUT
3-PIN XLR

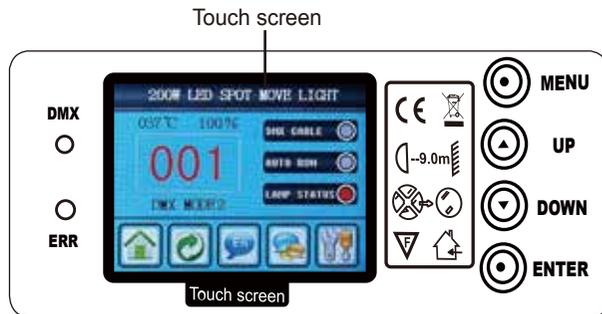
DMX512 IN
3-PIN XLR

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.

Please see illustrations below.



7. MENU OPERATIONS



MENU: Access the menu.

UP: Select function up.

DOWN: Down selection function.

ENTER: Save/Confirm current function data.

Quick start icon



1. Address → DMX address settings



2. Screen reversal



3. Fast language switching (Chinese/English)



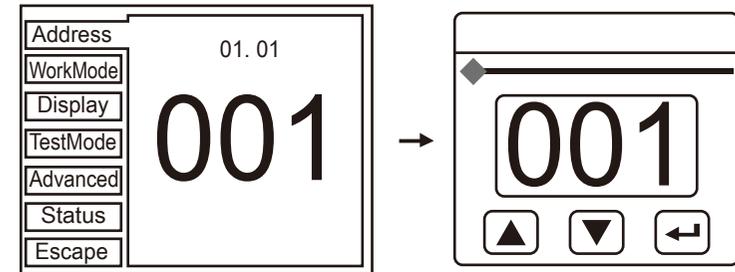
4. Work Mode → Operating mode



5. Advanced → Advanced settings

Operation menu

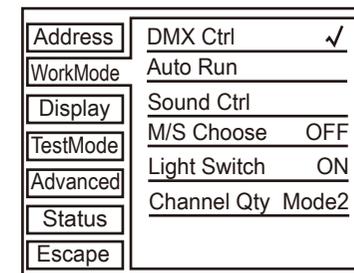
◆ Address → DMX address settings



Click 001 will pop up interface to adjust the number of the address code.

▲ Increase value ▼ Decrease value ← Confirm save

◆ Work Mode → Operating mode



Master/Slave only works when the fixture is operating in "Sound activated" or "Auto".

OFF → The internal program data of the lamp operation will not be sent to other lamps via the DMX data cable. (default setting)

ON → data sent to other lamps in real time, other lamps (slave) will follow the lamp (host) synchronous operation.

Note: The lamp can't be turned on and off too frequently, which will reduce the service life of the lamp. The time interval between the on and off lights has been limited within the lamp is 30 seconds, ie within 30 seconds after the lamp changed state, multiple opening and closing operations are ignored and only the last operation is retained.

◆ Display → Display setup

Address	语言	English
WorkMode	Screen saver	OFF
Display	Screen Rotate	ON
TestMode	Touch Enable	ON
Advanced	Touch Rectify	
Status		
Escape		

Screen saver:

When no settings have been made for the fixture for a period of time (10 seconds), the screen will enter the screen saver state.

OFF→No screensaver, the main screen is always displayed.

Mode 1→Turn off the screen, ie black screen, power saving mode.

Mode 2→Display the current DMX address and operating mode.

Mode 3→Display beam lamp icon and current operating mode(default setting).

Screen rotation:

Choose whether the screen is displayed with 180-degree rotation. This setting makes the display more intuitive and clear when the lamp is upside down.

ON → Normal display. (default setting)

OFF→180 degree flip display.

Touch screen switch:

When this item is set to “Off”, the touch screen function of the display is turned off and only the encoder knob can be used.

ON → Touch functionality is available. (default setting)

OFF→The touch function is not available. At this time, it can only be operated with the keys or knobs. (carefully selected)

Touch screen correction:

After clicking this item, enter the calibration page to re-correct the touch screen's touch accuracy. Under normal circumstances, please do not enter this page.

◆ Test Mode → Functional test mode

Address	01. Dimmer	000
WorkMode	02. Strobe	000
Display	03. Pan	000
TestMode	04. Tilt	000
Advanced	05. PT Speed	000
Status	06. Color	000
Escape	07. Rot. Gobo	000
	08. Gobo. R	000

In this mode, the fixture does not receive DMX console data. The parameters on the page correspond to the values of the DMX channel. The data of the corresponding parameter item can be changed to control the operation of the lamp.

01. Dimmer, 000-255, from dark to bright.

02. Strobe, 000-255, strobe color can be selected in the 06 color function.

0-3, strobe Dimmer.

4-127, Pulse strobe, speed from slow to fast.

128-191, Brightness gradually strobe, speed from slow to fast.

192-255, Random strobe, speed from slow to fast.

03. Pan, 000-255, X direction rotation from 0° to 540°.

04. Tilt, 000-255, Y direction rotation from 0° to 270°.

05. PT Speed,000-255, X/Y Speed from slow to fast.

06. Color, 000-255.

0-6 White	7-12 Red	13-18 Green	19-25 Blue	26-31 Shallow Magenta
32-37 Yellow	38-44 Bright green	45-50 Light blue	51-56 Magenta	57-63 Oranger

64-191 Linear color effect,192-222 Linear color speed adjustment, from *fast* to *slow*.

223-225 stop,

226-255 Reverse linear color speed adjustment, from slow to fast.

* You can fine-tune the color scale in the 10th function so that the half-tone effect achieves the best effect.

07. Rot. Gobo

Blank pattern

0-9



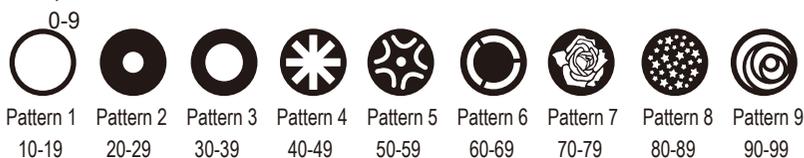
- 80-89, Pattern 1 shake effect, from slow to fast.
- 90-99, Pattern 2 shake effect, from slow to fast.
- 100-109, Pattern 3 shake effect, from slow to fast.
- 110-119, Pattern 4 shake effect, from slow to fast.
- 120-129, Pattern 5 shake effect, from slow to fast.
- 130-139, Pattern 6 shake effect, from slow to fast.
- 140-149, Pattern 7 shake effect, from slow to fast.
- 150-200, Linear pattern effect speed adjustment, from *fast* to *slow*.
- 201-255, Speed adjustment of reverse linear pattern effect, from slow to fast.

08. Gobo. R

- Please use this function when selecting a rotating pattern.
- 0-127, 0-400° rotation effect.
- 128-190, Rotation pattern rotation(no rotation limit), speed from *fast* to *slow*.
- 191-192, Stop. 193-255, Reverse rotation pattern rotation (no rotation limit), speed from slow to fast.

09. Gobo

Blank pattern



- 100-109, Pattern 1 shake effect, from slow to fast.
- 110-119, Pattern 2 shake effect, from slow to fast.
- 120-129, Pattern 3 shake effect, from slow to fast.
- 130-139, Pattern 4 shake effect, from slow to fast.
- 140-149, Pattern 5 shake effect, from slow to fast.
- 150-159, Pattern 6 shake effect, from slow to fast.
- 160-169, Pattern 7 shake effect, from slow to fast.
- 170-179, Pattern 8 shake effect, from slow to fast.
- 180-189, Pattern 9 shake effect, from slow to fast.
- 150-200, Linear pattern effect speed adjustment, from *fast* to *slow*.
- 201-255, Speed adjustment of reverse linear pattern effect, from slow to fast.

10. Col Fine

Test function 06, linear colors fine-tuning, this fine-tuning function makes the half-color effect more perfect

11. Prism

0-31 No function. 32-255 Turn on the prism effect.

12. Prism. R

Use this function when the prism function is ture on.
0-127, 0-400° rotation effect.

- 128-190, Prism rotation(no rotation limit), speed from *fast* to *slow*.
- 191-192, Stop.
- 193-255, reverse rotation pattern rotation (no rotation limit), speed from slow to fast.

13. Focus

0-255, Focusing size from far to near.

14. Zoom

0-255, Zoom function changes from small to large.

15. Frost

0-127 No function. 127-255 Turn on the frost effect.

16. Pan Fine

0-255, X direction fine-tuning, fine-tuning within 1°.

17. Tilt Fine

0-255, Y direction fine-tuning, fine-tuning within 1°.

18. Reset

0-239, Reset. Before enabling this function, ensure that the optocoupler calibration has been started. If not, start the optocoupler calibration. Wait 10 seconds after starting the reset and the unit will enter the reset waiting screen.

* Please complete the data adjustment, save the current data, press  to save.

◆ Advanced → Advanced setting mode

Address	Pan Invert	ON
WorkMode	Tilt Invert	ON
Display	P/T Rectify	ON
TestMode	Pan Offset	010
Advanced	Tilt Offset	010
Status	Lamp when Power ON	
Escape	Data hold	OFF
	Factory Setting	

Pan Invert:

Pan initial position and end position are reversed, and steering is set;

OFF→Motor rotates reversed.

ON → Motor rotates forward.

Tilt Invert:

Tilt initial position and end position are reversed, and steering is set;

OFF→Motor rotates reversed.

ON → Motor rotates forward.

P/T Rectify:

Select whether to use optical coupling to automatically correct the Pan(X) and Tilt(Y) positions.

ON → When the X or Y axis motor deviates due to loss of synchronism, the luminaire will automatically correct its position. (default setting)

OFF → When the X or Y-axis motor deviates due to out-of-step, the lamp will not be automatically calibrated back; (carefully selected)

Pan Offset:

Set the offset angle of the initial position of the X-axis motor. The default value is 010.

Tilt Offset:

Sets the offset angle of the Y-axis motor's initial position. The default value is 010.

Light mode:

Set the switch status of the light bulb when the power is on;

Power on the light → Turn on the light bulb. (default setting)

Manually actuate → After the lamp is turned on, it is necessary to manually light the lamp.

Turn on the light after reset → The light bulb is lit after the lamp is reset.

Data retention:

Sets the position of the fixture when the DMX signal is disconnected (unplug the console).

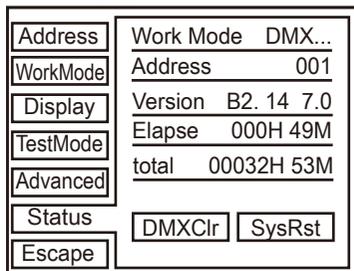
OFF → When the DMX signal is disconnected (unplug the console), the fixture is centered. (default setting)

ON → When the DMX signal is disconnected (unplug the console), the fixture remains in its current position.

Factory settings:

Initialize the luminaire so parameters.

◆ Status → Current status mode display



Work mode:

Display the current working mode of the lamp.

Address:

Displays the current DMX address of the fixture.

Version:

Displays the current software version of the fixture.

Elapse:

Shows the time the lamp was powered up.

total:

Displays the sum of lamp operating hours.

DMXClr:

When "Advanced Settings - Data Hold" is set to "ON", DMX is cleared to zero the lamps.

SysRst:

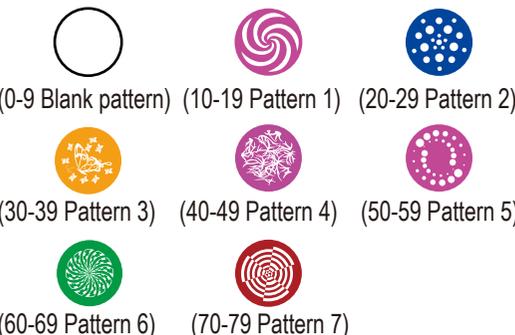
Reset all the lights of the motor.

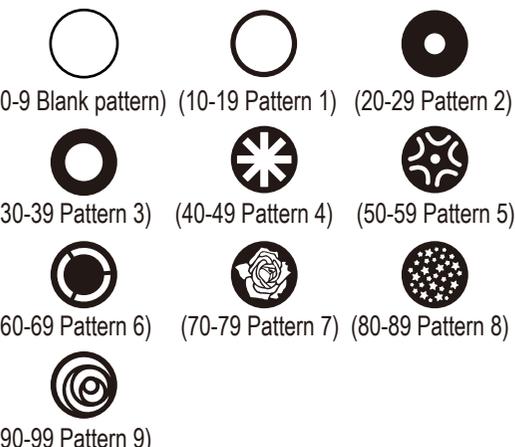
◆ Escape → Exit the current interface and return to the main interface

8. DMX CHANNELS

18 Channel model

Channel	Function/Value	Instructions
1	Dimmer/000-255	Master Dimmer, 0-255 from dark to bright
2	Strobe/000-255	0-3, strobe Dimmer. 4-127, Pulse strobe, speed from slow to fast. 128-191, Brightness gradually strobe, speed from slow to fast. 192-255, Random strobe, speed from slow to fast.
3	X/000-255	Adjustment is turned up during, down regulate inversion
4	Y/000-255	Adjustment is turned up during, down regulate inversion
5	X, Y Speed/000-255	0-255, speed from <i>fast</i> to <i>slow</i>

6	Color/000-255	<p>0-6 White. 7-12 Red. 13-18 Green. 19-25 Blue, 26-31 Shallow Magenta, 32-37 Yellow, 38-44 Bright green, 45-50 Light blue, 51-56 Magenta, 57-63 Oranger. 64-191 Linear color effect, 192-222 Linear color speed adjustment, from <i>fast</i> to <i>slow</i>. 223-225 stop, 226-255 Reverse linear color speed adjustment, from slow to fast.</p>
7	Rotate pattern disk/ 000-255	 <p>(0-9 Blank pattern) (10-19 Pattern 1) (20-29 Pattern 2) (30-39 Pattern 3) (40-49 Pattern 4) (50-59 Pattern 5) (60-69 Pattern 6) (70-79 Pattern 7)</p> <p>80-89, Pattern 1 shake effect, from slow to fast. 90-99, Pattern 2 shake effect, from slow to fast. 100-109, Pattern 3 shake effect, from slow to fast. 110-119, Pattern 4 shake effect, from slow to fast. 120-129, Pattern 5 shake effect, from slow to fast. 130-139, Pattern 6 shake effect, from slow to fast. 140-149, Pattern 7 shake effect, from slow to fast. 150-200, Linear pattern effect speed adjustment, from <i>fast</i> to <i>slow</i>. 201-255, Speed adjustment of reverse linear pattern effect, from slow to fast.</p>

8	Rotate pattern rotate/000-255	<p>0-127, 0-400° rotation effect. 128-190, Rotation pattern rotation(no rotation limit), from <i>fast</i> to <i>slow</i>. 191-192, Stop. 193-255, Reverse rotation pattern rotation (no rotation limit), from slow to fast.</p>
9	Fixed pattern disk/ 000-255	 <p>(0-9 Blank pattern) (10-19 Pattern 1) (20-29 Pattern 2) (30-39 Pattern 3) (40-49 Pattern 4) (50-59 Pattern 5) (60-69 Pattern 6) (70-79 Pattern 7) (80-89 Pattern 8) (90-99 Pattern 9)</p> <p>100-109, Pattern 1 shake effect, from slow to fast. 110-119, Pattern 2 shake effect, from slow to fast. 120-129, Pattern 3 shake effect, from slow to fast. 130-139, Pattern 4 shake effect, from slow to fast. 140-149, Pattern 5 shake effect, from slow to fast. 150-159, Pattern 6 shake effect, from slow to fast. 160-169, Pattern 7 shake effect, from slow to fast. 170-179, Pattern 8 shake effect, from slow to fast. 180-189, Pattern 9 shake effect, from slow to fast. 150-200, Linear pattern effect speed adjustment, from <i>fast</i> to <i>slow</i>.. 201-255, Speed adjustment of reverse linear pattern effect, from slow to fast</p>
10	Color ratio adjustment/000-255	<p>CH 6, linear colors fine-tuning, this fine-tuning function makes the half-color effect more perfect</p>

11	Prism/000-255	0-31 No function. 32-255 Turn on the prism effect.
12	Prism Rotating/ 000-255	0-127, 0-400° rotation effect. 128-190, Prism rotation(no rotation limit), from <i>fast</i> to <i>slow</i> 191-192, Stop. 193-255, Reverse rotation pattern rotation (no rotation limit), from slow to fast.
13	Focus/000-255	0-255, Focusing size from far to near.
14	Zoom/000-255	0-255, Zoom function changes from small to large.
15	Frost/000-255	0-127 No function. 127-255 Turn on the frost effect.
16	X Fine/000-255	0-255, X direction fine-tuning, fine-tuning within 1°
17	Y Fine/000-255	0-255, Y direction fine-tuning, fine-tuning within 1°
18	Reset/000-255	Wait 10 seconds after starting the reset and the unit will enter the reset waiting screen.

*** If you find that the product menu does not comply with this manual, please contact us immediately and we will send a copy of the manual that suits you. Thank you!**

9. MAINTENANCE AND CLEANING

The following points have to be considered during the inspection:

1. All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2. There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
3. Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4. The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed

***CAUTION!**

Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1. Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2. Clean the fan each week.
3. A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.
4. Frequent cleaning. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer