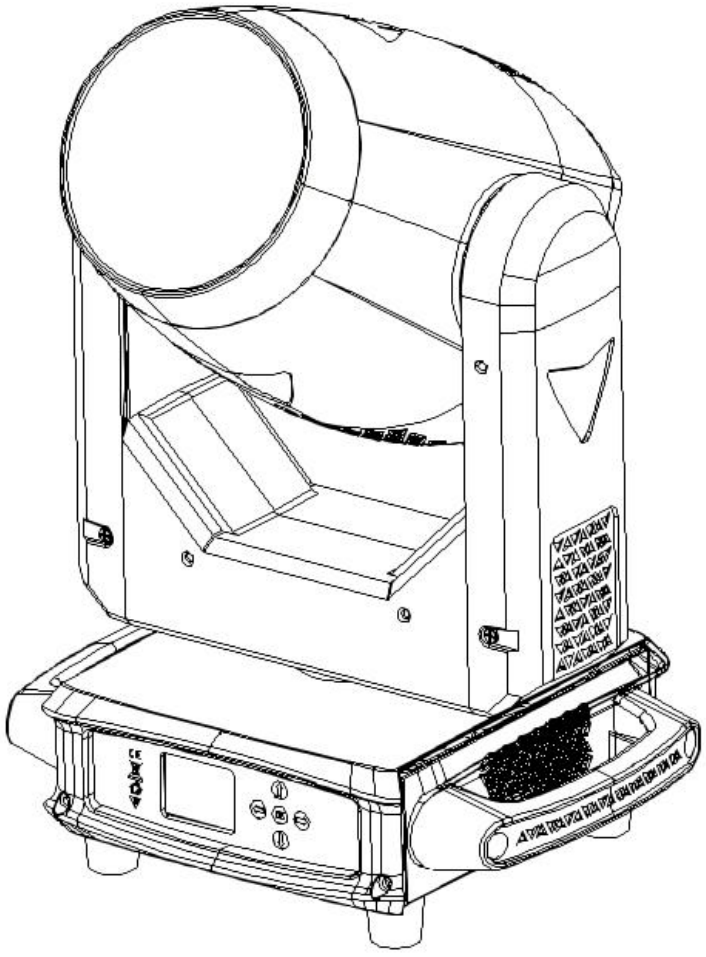
lighting PLUS

User manual



360 BEAM

Please read the instructions carefully before use

TABLE OF CONTENTS

1. **Safety Instructions……3-4**
2. **Technical Specifications……4-5**
3. **Control Menu ……5-7**
4. **DMX Channels ……8-10**
5. **Dimension ……11**
6. **LUX Date ……11**
7. **Trouble Shooting……12**
8. **Fixture Cleaning…… ……12**

STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1.Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

•Unpack and check carefully there is no transportation damage before using the unit.

•Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

•It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

•The unit is for indoor use only. Use only in a dry location.

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

•Disconnect main power before replacement or servicing.

•Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

•Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

•Maximum ambient temperature is Ta: 40℃. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85℃. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

•the event of serious operating problem, stop using the unit immediately.Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

•DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

•To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

•The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

•There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

•The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly

fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.
•The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2.Technical Specifications

Input voltage range: 90-240V~ 50/60Hz

Machine power: 365 W

Input power: 550W

Light source: PHILIPS MSD Silver 300 LL (3000 hours)

Diameter of light-emitting lens: 145mm

Color temperature: 7800K

When the beam angle is 2°, the illuminance at 10 meters can reach 400,000 lux

Fixed gobo: 1 fixed gobo, 16 gobos plus 1 white circle

Color wheel: 1 color wheel, 14 fixed colors plus white, two-way rainbow effect

Equipped with 1 8 prism, and 8+16+24 honeycomb prism, the two prisms can be stacked and rotated in both directions

Beam angle: 2°

Control mode: DMX512, self-propelled, master-slave, RDM

Channel: 18CH

With fog and colorful effects

Electric focusing system

Outstanding strobe effect with variable speed

0-100% smooth dimming

Control panel: LCD display, touch panel

X-axis rotation angle: 540°

Y-axis rotation angle: 270°

XY axis magnetic coding positioning is more accurate

Power Outlet: Power Connector Input/Output

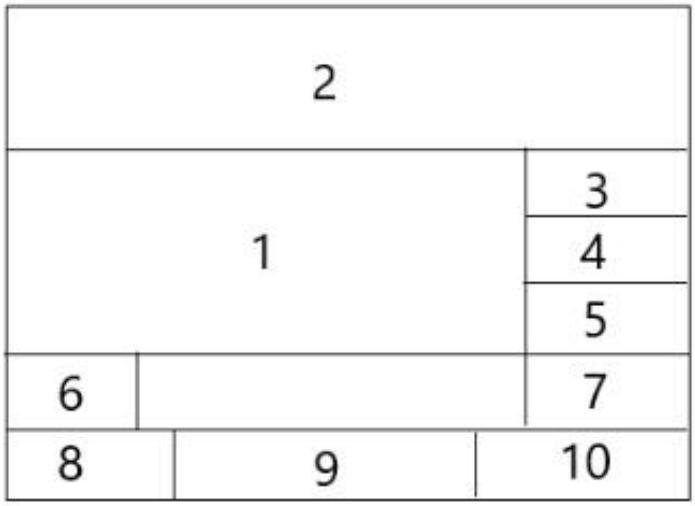
Signal input/output: three-pin XLR head socket

Overheating self-energy protection bulbs, extending lamp life

Lamp size: 338x256x512mm

Net weight: 14KG

3.Control Menu



1 — Displays the current DMX address in large font
2 — Logo display area
3 — DMX signal frame rate (FPS)
4 — Current channel mode, the displayed number indicates the current channel number
5 — Fan speed display (select whether to display according to the lighting conditions)
6 — Current Mode (Master, Slave)
7 — Current running mode (DMX512, Auto, User)
8 — Error message. If a red band "x" is displayed, the self-test found an error. (Press down to view specific error message)
9 - temperature display or other content (depending on lamp configuration)
10 — SN term display

menu operation:

1. DMX address: set the DMX address
2. Channel mode: Set the channel mode, the number of the menu option indicates the number of channels.

3. Reset operation: reset the motor

Motor power off：

Select "On", all motors are powered off; select "Off", all motors are powered on and reset. Using this menu, it is possible to plug and unplug the motor and power-on reset without turning off the main switch.

XY Axis: Reset Pan and Tilt Motors

.....

4.Run: Set the run mode

The description of each menu option is as follows (Note: "Automatic" mode options may vary according to different product models):

DMX: controlled and run by DMX512 console.

Self-propelled (factory test): run the program set by the manufacturer, this program is mainly used for factory test.

User program: run user self-programming program. The editing scene can be set in the [Run Settings] - [Self-Programming] menu.

5.lamp： Switch the light bulb. After changing the value, it takes about 3 seconds to work, you can switch the value back within 3 seconds to cancel the operation. After turning off the light bulb, you must wait 1~2 minutes before turning it on again. If you operate the menu to turn on the light bulb within two minutes, the light bulb will not be lit. After the waiting time is up, it will light up by itself.

If this menu item is "on", the system will first try to light the bulb when powered on, and wait for the light board to return.

6.Manual: Manually set the value of the channel

7.Operation settings: Operation parameter settings.

XY axis general settings:

X-axis reverse: Select "Yes" to reverse the rotation direction of the Pan motor, select "No", and follow the rotation direction at the factory.

Y-axis reverse: select "Yes" to reverse the rotation direction of the Pan motor, select "No", and follow the rotation direction at the factory.

DMX512

When no signal: select the operation mode if no DMX512 signal is detected

When powering on: Only when powering on, if no DMX signal is detected, the above operation mode will be executed,

Otherwise, the last DMX action will be held

Centered: Except for Pan and Tilt, all other channels are cleared to zero.

Self-propelled (factory test/pattern/color): Run the program set by the factory.

User program: run user self-programming program.

Runtime: At any time, as long as the DMX signal is lost, the action performed

Hold: Hold the DMX value of the last frame.

Shut off: close the shutter

Turn on the light bulb: Select "No", the light will not light after the power-on reset is completed, select "Yes", the light bulb will be automatically turned on after the power-on reset is completed.

8. Advanced settings:

Fine-tuning: Factory debugging function, which requires password authentication to enter.

Display: Menu screen flip setting

Language: Set the system language

Ignore errors: Some error reports may not affect the final use effect, or for the general purpose of the product, you can choose to turn off some meaningless error reports

Trim Recovery: After replacing the display board, use this menu to restore the trim data saved by the motor board to the display board.

9. Information:

DMX value: Display the current received DMX signal value

Channel: Displays the DMX value of the selected channel that needs to be observed

Error: Display error message (if any item in this menu is wrong, an exclamation mark will be displayed in the upper right corner of the menu cover)

Storage: Indicates whether the storage is functioning normally. If the memory is abnormal, the menu information cannot be recorded or read, and the lamp time record and self-programming data may also be lost.

RAM Error: Chip memory allocation failed, if this error occurs, please contact the manufacturer.

Bus communication: If there is an error, the motors of various functions will not operate normally. If this error occurs, please check whether the communication cables between the boards are in poor contact.

Bulb: The communication between the bulb and the lighting board. If the communication is wrong, the main control chip cannot correctly judge whether the light bulb is normally turned off or on, which may cause some functions to not work properly.

Lighting board: Communication with the light bulb lighting board.

X-axis reset: X-axis reset failed, check whether the magnetic code or motor is normal.

Y-axis reset: Y-axis reset failed, check whether the magnetic coding or motor is normal.

Color reset: Color wheel reset failed

Fixed pattern reset: Fixed pattern disk reset failed

Fan stop: The blower stops rotating, and the light bulb will be automatically turned off after a certain time.

Bulb: Displays the usage time of the bulb

Usage time: Displays the total time the lamp has been on since the lamp time was reset to zero

Time reset: The total time the bulb is on is reset to 0.

Test Mode: For product testing and temporary use only.

Product Code: The internal code of the product is only for reference in product production and maintenance.

4.DMX Channels

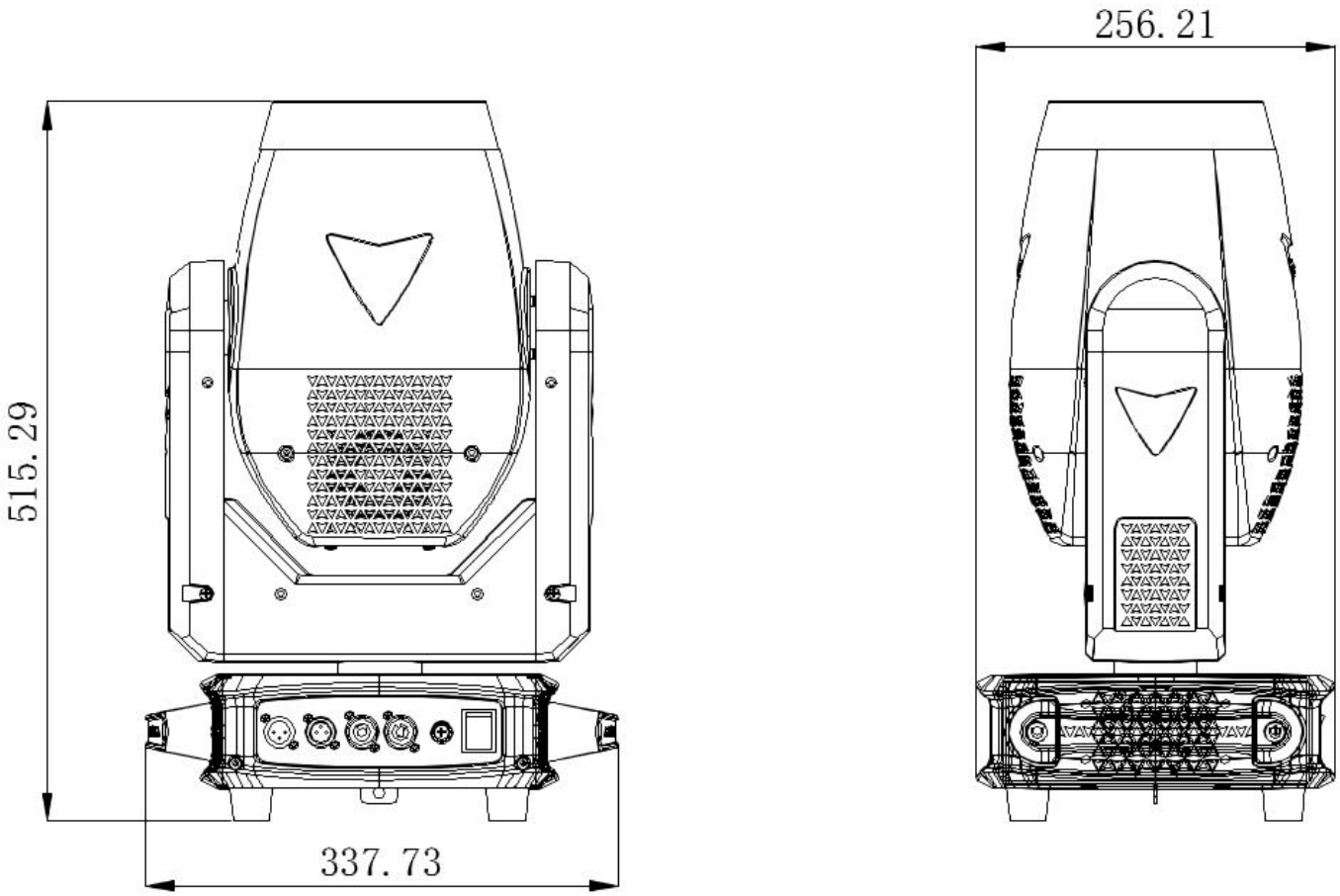
Model - CH18

Channel	DMX Value	Description
1	0-255	Pan
2	0-255	Pan fine
3	0-255	Tilt
4	0-255	Tilt fine
5		Pan/Tilt speed
	0	Maximum speed
		in speed mode
	1-255	speed from fast to slow
		in time mode
	1-255	Time from 0.1s to 25.5s
6	0-255	dimmer
7		strobe
	0-3	closure
	4-103	Strobe from slow to fast
	104-107	Open
	108-207	Fast off and slow on, from fast to slow
	208-212	Open
	213-251	Random strobe, from slow to fast
	252-255	Open
8		color wheel
	0-4	Color 1 (white light)
	5-8	color 1+color 2
	9-12	color 2
	13-17	color 2+color 3
	18-21	color 3
	22-25	color 3+color 4
	26-29	color 4
	30-34	color 4+color 5
	35-38	color 5
	39-42	color 5+color 6
	43-46	color 6
	47-51	color 6+color 7
	52-55	color 7
	56-59	color 7+color 8
	60-63	color 8
	64-68	color 8+color 9
	69-72	color 9
	73-76	color 9+color 10
	77-81	color 10
	82-85	Color 10 + Color 11

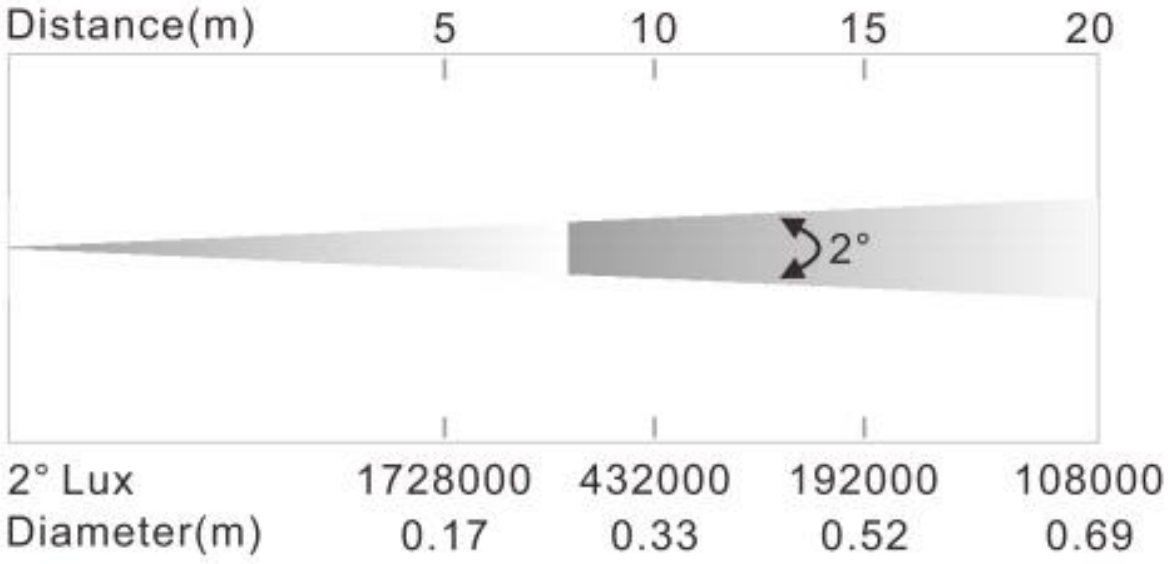
8	86-89	color 11
	90-93	Color 11+Color 12
	94-98	color 12
	99-102	Color 12+Color 13
	103-106	color 13
	107-110	Color 13+Color 14
	111-115	color 14
	116-119	Color 14+Color 15
	120-123	color 15
	124-127	Color 15+Color 1
	128-190	Rainbow effect from fast to slow
	191-192	rainbow effect stopped
	193-255	Rainbow effect from slow to fast
9		Gobo
	0-3	Open (white light hole)
	4-6	Gobo 1
	7-9	Gobo 2
	10-12	Gobo 3
	13-15	Gobo 4
	16-18	Gobo 5
	19-21	Gobo 6
	22-24	Gobo 7
	25-27	Gobo 8
	28-30	Gobo 9
	31-33	Gobo 10
	34-36	Gobo 11
	37-39	Gobo 12
	40-42	Gobo 13
	43-45	Gobo 14
	46-48	Gobo 15
	49-54	Gobo 16
	55-62	Pattern 1 shaking from slow to fast
	63-70	Pattern 2 shaking from slow to fast
	71-78	Pattern 3 shaking from slow to fast
	79-86	Pattern 4 shaking from slow to fast
	87-94	Pattern 5shaking from slow to fast
	95-102	Pattern 6shaking from slow to fast
	103-110	Pattern 7shaking from slow to fast
	111-118	Pattern 8 shaking from slow to fast
	119-126	Pattern 9shaking from slow to fast
	137-134	Pattern 10 shaking from slow to fast
	135-142	Pattern 11 shaking from slow to fast
	143-150	Pattern 12 shaking from slow to fast
	151-159	Pattern 13 shaking from slow to fast
	159-166	Pattern 14 shaking from slow to fast
	167-174	Pattern 15 shaking from slow to fast

9	175-190	Pattern 16 shaking from slow to fast
	191-201	Open
	202-227	The gobo is scrolling forward, from fast to slow
	228-229	stop scrolling
	230-255	gobo scrolls in reverse, from slow to fast
10		Atomization and colorful
	0-19	null
	20-137	atomization
	138-255	colorful
11		Prism1
	0-127	no prism
	128-255	Prism 1 Insert
12		Prism 1 Positioning and Rotation
	0-127	Prism 1 Positioning and Rotation
	128-190	Prism 1 rotates in reverse, from fast to slow
	191-192	Prism 1 stops rotating
	193-255	Prism 1 rotates forward, from slow to fast
13		Prism2
	0-127	no prism
	128-255	Prism 2 Insert
14	0-255	focus
15		no function
16		no function
17		reset To achieve the following effects, push the DMX value to the corresponding position and stand still for at least 4 seconds
	0-25	null
	26-76	effect reset
	77-127	Pan/Tilt reset
	128-255	reset all
18		reset
		Lamp To achieve the following effects, push the DMX value to the corresponding position and stand still for at least 4 seconds
	0-25	no effect
	26-100	Lamp Off
	101-255	Lamp ON

5.Dimension



6.LUX Date



7.Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on

PCB of the unit or the previous one.

4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motors drive IC on the PCB might be out of condition

8.Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.