230W Moving Head Beam Sharpy

CE RoHS

User Manual

📖Please read this user manual before using this product！

Keep it for further reference!

http://www.newfeellight.com

Thank you for using our product! Please read this manual carefully and completely. For technical reference in future, please keep this user manual well. This user manual contains all installation and operation information of this Moving Head Sharpy Light, it's very useful for user to install and operate the light. Please strictly abide by the relevant instruction for the installation and operation.

This light has very beautiful appearance. Our Sharpy 230W Moving Head Light is a very small and smart light. It owns very good beam light, and very wonderful color mixing effect. It has compact module structure, and the space between each modules are equalization and balance, the cooling wind channels are unobstructed, these features can make the light continuous use in long time. As a sharpy light, it's small, but it runs extremely fast. This light is very suitable for bar, disco, stage, theatre, decoration etc.

This light meets the following criteria:

GB7000.1-2007/IEC60598-1:2003

GB7000.217-2008/IEC60598-2-17:1984+A2:1990

Ⅰ CHECKING

We are very glad to offer you our best quality product and service to make you satisfied.

Please check that there has been no damage caused in transportation and the following items are enclosed.

230W Moving Head Beam Sharpy Light	1PCS
User Manual	1PCS

Ⅱ MAIN FEATURES

·Using imported color chip and heat filter to make the color temperature will more uniform

and unification;

·It will ensure the light can putouts more colorful, more beautiful and more brightness;

·The light uses Taiwan YODN 7R 230W lamp default, the Philips 7R 230W lamp is optional;

·We insist develop PCB by ourselves. All dip-in chips and electronic components have been changed into surface mount type to make sure the XY drive and module drivers separately, which make the circuit boards are more stable and reliable.

## Ⅲ SAFETY INFORMATION

※**Important**

Every person involved with the installation, operation and maintenance of this device has to be qualified and follow the instructions of this manual. Manufacturer will not with responsibility for those operations which are not according to this Instruction.

- Verify that the voltage matches the rated voltage.
- When the voltage is 110V , Do not connect more than 10 lightings in total to AC mains power in one interconnected daisy chain
- When the voltage is 220V , Do not connect more than 20 lightings in total to AC mains power in one interconnected daisy chain
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Always ground (earth) the fixture electrically.
- Avoiding hit the Light when you are move or install the light.
- The minimum distance between light-output and the illuminated surface must be more than 0.5 meters. Keep all combustible materials (for example fabric, wood, paper) at least 0.2 meters away from the fixture.
- Do not expose the fixture to rain or moisture.
- Avoid looking directly into the light source (especially those who suffer from epileptic fits)
- Maximum ambient temperature (Ta) is 40°C. Do not operate fixture at temperatures higher than this.
- The Maximum surface temperature is 50°C
- When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.
- Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

Ⅳ INSTALLATION AND OPERATION
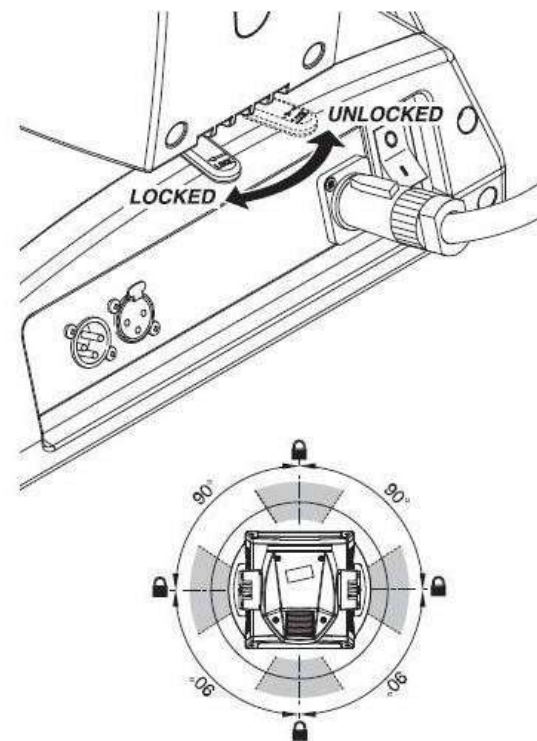
Picture 1: The locking and releasing mechanism of Pan, every 90 degree will **LOCK** or **UNLOCKED**.
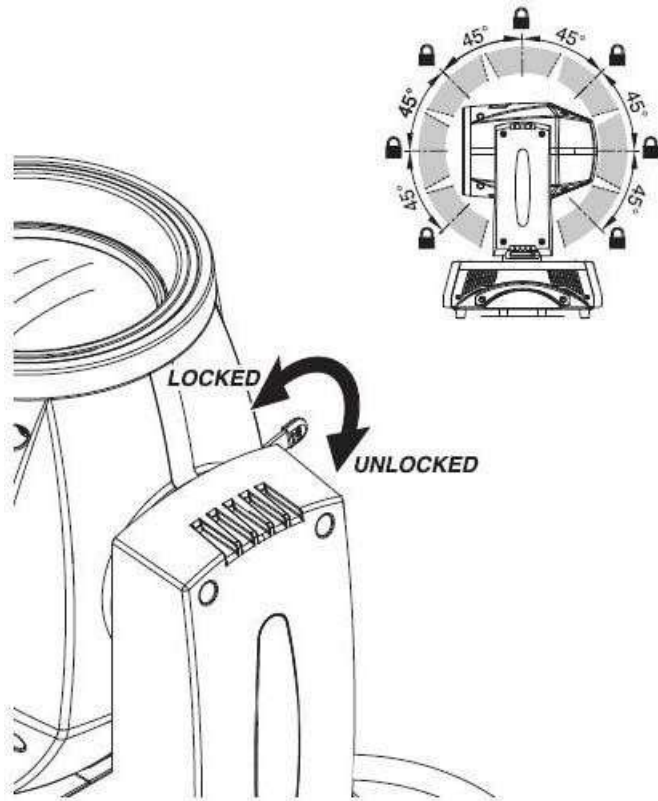
Picture 2: The locking and releasing mechanism of Tilt, every 45 degree will **LOCK** or

UNLOCKED
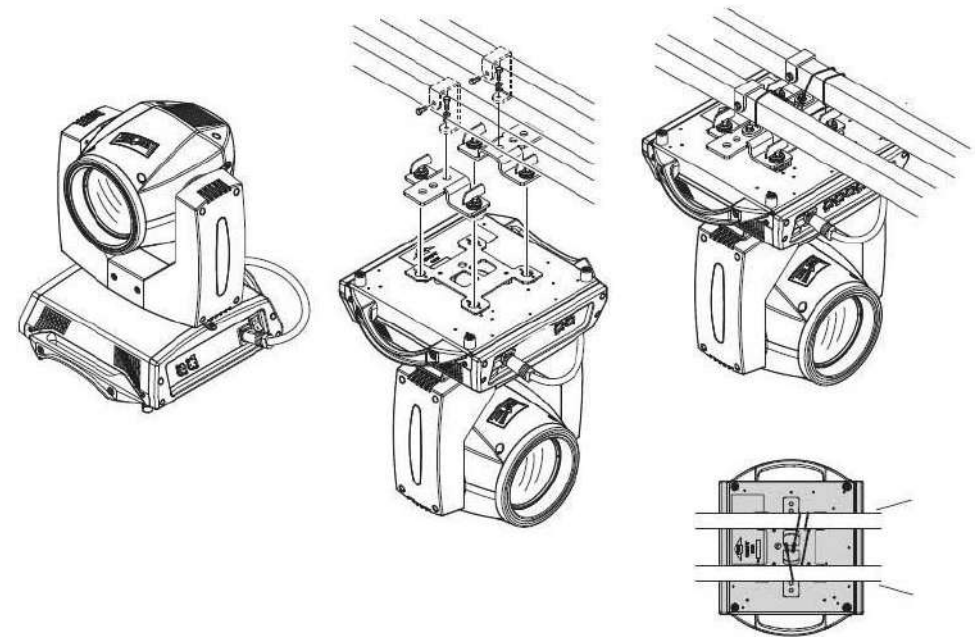
Picture 3: This light can be installed on the floor of the rubber feet, truss, the ceiling or wall

WARNING: The light must be connected with the safety rope, unless it is installed and posited on the floor
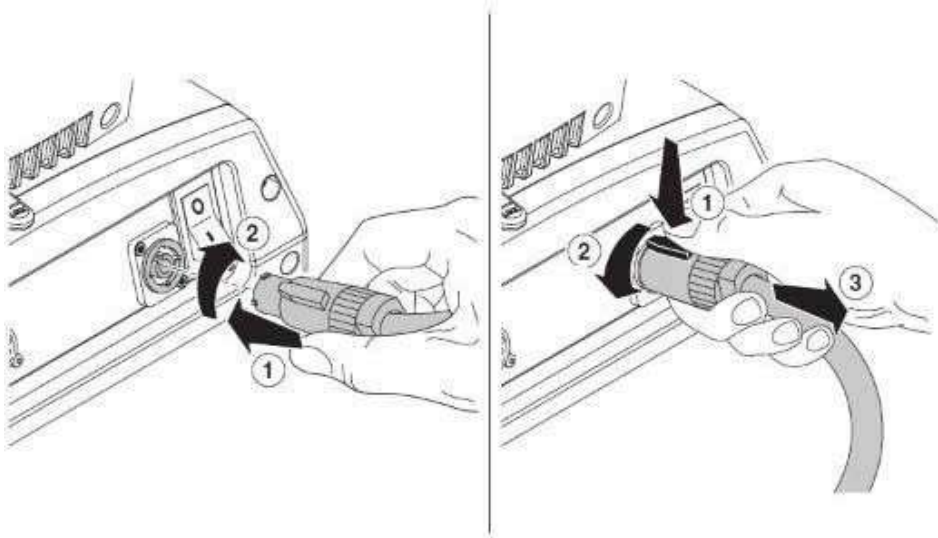
Picture 4: The steps to connect or break the power cable
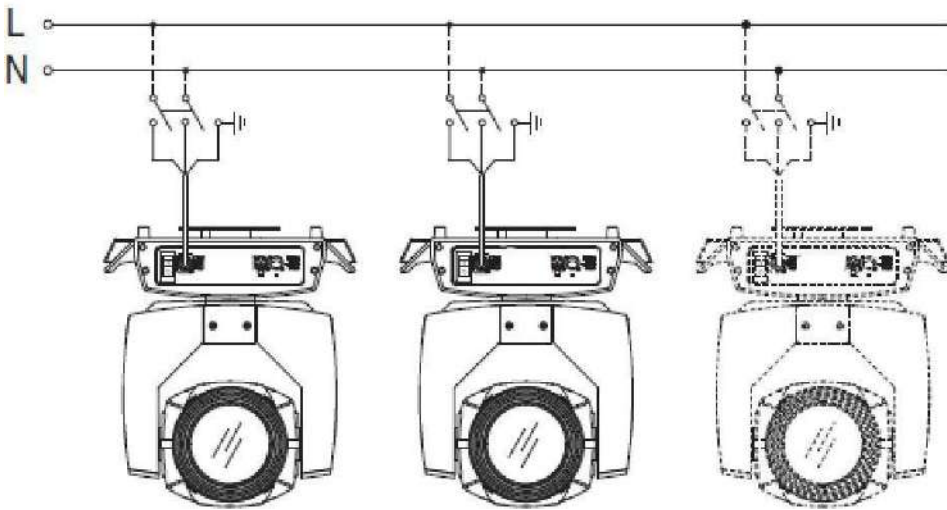
Picture 5: Connect to Power
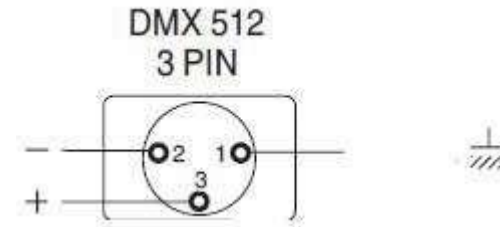
DMX 512
3 PIN

Picture 6: Connect to the Control Single Cable (DMX-512 Single)

Note: Please use the standard twisted signal cable which can shield the double electrodes. The characteristic impedance is 120 ohm. Don't use the microphone cable or other different using single cable. You have to use the XLR type 3 pins male and female cannon connector to connect the terminal.

Important: Two electrode cables do not mutual or touch the metal shell, You must use the bushing to pack the pin 1.

V MENU OPERATION

MENU USING

	Right Button	Enter the menu, or confirm the setting
	Left Button	Exit the menu, or back the previous menu
	Up Button	Up choose menu, or parameter value increase
	Down Button	Down choose menu, or parameter value reduce
	Confirm Button	Confirm the setting

OPERATION OF TOUCH SCREEN

Option	Instruction
Touch screen calibration	Into the calibration interface, according to cross cursor indication to touch the corresponding position, if four position to receive the correct data, then complete calibration and keep calibration data. If calibration fail, this process will continue cycle down, can by press the "OK" button at any time to stop calibration
Reset calibration	Enter the son interface, can adjust the X, Y motor reset position, to make up for the hardware installation error. Be different from the address code and channel value, reset calibration does not support unit, ten, hundred separate editing, also does not support long press, and must be calibrated step by step as 1 for unit. Note: please do not do reset calibration when the motor is running! If the motors are running, please reset calibrate after the motors stop When necessary, please perform a reset operation before

reset calibration.

Take the "modify DMX address code" as an example, show the use of button as below:

If the current interface is not the main one, press the "Left" button (one or multiple) can get back to the main interface.

In the main interface, press the "Up" button or "Down" button to select the "Settings" button.

Press the "OK" button, enter the "Settings" interface.

In the "Settings" interface, press the "Up" button or "Down" Button to select "DMX address"

Press the "OK" button to enter edit state.

Press the "Up" button or "Down" button to modify the DMX address code.

Press the "OK" button to exit editing state.

If use the touch screen, the process is more convenient.

1. In the main window touch "Settings" button to enter the "Settings" interface;

2. It is the same with 4 ~ 7 steps (can use the true buttons, also can use the touch button), no longer talk about them in details.

INTERFACE INSTRUCTION

1. Manual control interface

The interface is used to control the current light, not only does not belongs to the slave state (don't receive DMX signal), but also does not belong to the master state (don't send DMX signal).

Option		Instruction
Reset		Press the "OK" button, see the confirmation dialog box, click"

		OK "button again, enter reset interface, all motor reset
Color wheel	0~255	Press the "OK" button to enter edit state. And it chosen the hundred position, press the "Up" and "Down" button to change address code. Press "OK" button once again to select ten position editing. Click "OK" button twice again to select the unit editing. Click again exit editing state.
......	0~255	
Gobo speed	0~255	
Lamp control	On	
	Off	

2. Advanced Interface

The password is "up and down up and down". Operation process is: press the "Up" key (appear first "*"), click again "Down" key (appear the second "*"), then press the "Up" key (appear third "*"), click again "Down" key (appear fourth "*"), and press the "ok" button to verify password.

3. Setting Interface

Option		Instruction
Operation Mode	DMX	Slave state: Receive the DMX signal from controller or the host one
	Auto	Master state: Auto run, and send DMX signal to slave one Notice: If the lamp is off before, it can't light the lamp by itself. If you need the observe the lamp effect, please light the lamp firs, then enter the auto state.
DMX Address	1~512	Press the "OK" button to enter edit state. And it chosen the hundred position, press the "Up" and "Down" button to change address code. Press "OK" button once again to select ten position editing. Click "OK" button twice again to select the unit editing. Click again exit editing state.

	16	CH17~20 no function
CH Mode	20	CH17~20 control the speed（See the channel table）
Pan Inversion	Off	
	On	
Tilt Inversion	Off	
	On	
Pan/tilt exchange	Off	
	On	Exchange XY channels(Included fine adjustment)
XY coder	On	Use the coder(optocoupler) to judge whether out of step, and correct position automatically
	Off	Don't use the coder(optocoupler) to correct position
NO DMX signal	Retain	According to the original state to continue running
	Reset	Motors return, stop running
Screen protection	On	No operation for 30 seconds, the backlight will be off
	Off	The backlight will be on all the time
Lamp on	Off	After power on reset directly, bulb doesn't light up(need to use the menu or controller to manual light bulb)
	On	After power on, bubble light automatically, and to wait on the bulb light successfully, then reset.
Default Settings		Click "OK" button, see the confirmation dialog box, click "OK" button again to recover default Settings

4. Information Interface

Option	Instruction
Software version	Current software version
Total usage time	Total usage time is accurate to minutes
Usage time of this time	Usage time of this time is accurate to minutes

DMX channel value		Enter into the son interface from this, shows the numerical and percentage channel value for check
System error record		If the red ERR light shine, it means the light has operation error, the details can be view in son interface. After the check, can click "OK" button, the error record will empty Note: Sometimes it's not really the installation problem of hall or optocoupler, but the motor line are reversed.

VI DMX PROTOCOL

		Color wheel
	000	White
	005	White + red
	010	Red
	015	Red + orange
	020	Orange
	025	Orange + aquamarine
	030	Aquamarine
CH1	035	Aquamarine + green
	040	Green
	045	Green + light green
	050	Light green
	055	Light green + lavender
	060	Lavender
	065	Lavender + pink
	070	Pink
	075	Pink + yellow

	080	Yellow
	085	Yellow + magenta
	090	Magenta
	095	Magenta + cyan
	100	Cyan
	105	Cyan +CTO260
	110	CTO260
	115	CTO260 +CTO190
	120	CTO190
	125	CTO190 + CTB8000
	130	CTB8000
	135	CTB8000 +Blue
	140	Blue
	145	Blue +white
	150	Slow rotation
	......	......
	255	Fast rotation
CH2		**Blackout/Strobe**
	000←→003	Closed
	004←→102	Slow strobe
	103	Fast strobe
	......	......
	104←→107	Open, controlled by dimmer channel
	108	Slow pulsation
	......	......
	207	Fast pulsation
	208←→212	Open, controlled by dimmer channel
	......	......
	213←→225	Random slow strobe
	226←→238	Random medium strobe
	239←→251	Random fast strobe
	252←→255	Open, controlled by dimmer channel

CH3		**General dimmer**
	000←→255	Dimmer, 0-100%
CH4		**Static gobo change**
	000	White
	005	Gobo1
	010	Gobo2
	015	Gobo3
	020	Gobo4
	025	Gobo5
	030	Gobo6
	035	Gobo7
	040	Gobo8
	045	Gobo9
	050	Gobo10
	055	Gobo11
	060	Gobo12
	065	Gobo13
	070	Gobo14
	075	Gobo15
	080	Gobo16
	085	Gobo17
	090	Fast rotation(backward)
	......	......
	129	Slow rotation(backward)
	130←→134	Stop(white)
	135	Slow rotation(forward)
	......	......
	170	Fast rotation(forward)
	171	Gobo1 shake, slow speed
	......	......
	175	Gobo1 shake, fast speed
	176	Gobo2 shake, slow speed

	......	......
	180	Gobo2 shake, fast speed
	......	......(Gobo 3 to gobo 15)
	246	Gobo16 shake, slow speed
	......	......
	250	Gobo16 shake, fast speed
	251	Gobo17 shake, slow speed
	......	......
	255	Gobo17 shake, fast speed
CH5		**Prism insertion**
	000←→127	Prism excluded
	028←→255	Prism inserted
CH6		**Prism rotation**
	000←→127	Position
	128	Fast rotation(backward)
	......	......
	190	Slow rotation(backward)
	191←→192	Stop
	193	Slow rotation(forward)
	......	......
	255	Fast rotation(forward)
CH7	000←→255	**Effect movement (reserved)**
CH8		**Frost**
	000←→127	Frost excluded
	028←→255	Frost inserted
CH9		**Focus**
	000←→255	Focus, 0-100%
CH10		**Pan**
	000←→255	Pan movement, 0-540 degree
CH11		**Pan fine**
	000←→255	Pan fine adjust(16Bit)

CH12		**Tilt**
	020←→255	Tilt movement, 0-250 degree
CH13		**Tilt fine**
	000←→255	Tilt fine adjust(16Bit)
CH14	000←→255	**Function setting(reserved)**
CH15		**Reset**
	000←→025	Unused range
	026←→076	Effects reset
	077←→127	Pan/tilt reset
	128←→255	Complete reset
CH16		**Lamp control**
	000←→009	Unused range
	010←→100	Lamp off
	101←→255	Lamp on

CH1		**Color wheel**
	000	White
	005	White + red
	010	Red
	015	Red + orange
	020	Orange
	025	Orange + aquamarine
	030	Aquamarine
	035	Aquamarine + green
	040	Green
	045	Green + light green
	050	Light green
	055	Light green + lavender
	060	Lavender
	065	Lavender + pink
	070	Pink
	075	Pink + yellow
	080	Yellow
	085	Yellow + magenta
	090	Magenta
	095	Magenta + cyan
	100	Cyan
	105	Cyan +CTO260
	110	CTO260
	115	CTO260 +CTO190
	120	CTO190
	125	CTO190 + CTB8000
	130	CTB8000
	135	CTB8000 +Blue
	140	Blue
	145	Blue +white
	150	Slow rotation
	......	......
	255	Fast rotation
CH2		**Blackout/Strobe**
	000←→003	Closed
	004←→102	Slow strobe
	103	Fast strobe
	......	......
	104←→107	Open, controlled by dimmer channel
	108	Slow pulsation
	......	......
	207	Fast pulsation
	208←→212	Open, controlled by dimmer channel
	......	......
	213←→225	Random slow strobe
	226←→238	Random medium strobe

	239←→251	Random fast strobe
	252←→255	Open, controlled by dimmer channel
CH3		**General dimmer**
	000←→255	Dimmer, 0-100%
CH4		**Static gobo change**
	000	White
	005	Gobo1
	010	Gobo2
	015	Gobo3
	020	Gobo4
	025	Gobo5
	030	Gobo6
	035	Gobo7
	040	Gobo8
	045	Gobo9
	050	Gobo10
	055	Gobo11
	060	Gobo12
	065	Gobo13
	070	Gobo14
	075	Gobo15
	080	Gobo16
	085	Gobo17
	090	Fast rotation(backward)
	......	......
	129	Slow rotation(backward)
	130←→134	Stop(white)
	135	Slow rotation(forward)
	......	......
	170	Fast rotation(forward)
	171	Gobo1 shake, slow speed
	......	......

	175	Gobo1 shake, fast speed
	176	Gobo2 shake, slow speed
	......	......
	180	Gobo2 shake, fast speed
	......	......(Gobo 3 to gobo 15)
	246	Gobo16 shake, slow speed
	......	......
	250	Gobo16 shake, fast speed
	251	Gobo17 shake, slow speed
	......	......
	255	Gobo17 shake, fast speed
CH5		**Prism insertion**
	000←→127	Prism excluded
	028←→255	Prism inserted
CH6		**Prism rotation**
	000←→127	Position
	128	Fast rotation(backward)
	......	......
	190	Slow rotation(backward)
	191←→192	Stop
	193	Slow rotation(forward)
	......	......
	255	Fast rotation(forward)
CH7	000←→255	**Effect movement (reserved)**
CH8		**Frost**
	000←→127	Frost excluded
	028←→255	Frost inserted
CH9		**Focus**
	000←→255	Focus, 0-100%
CH10		**Pan**
	000←→255	Pan movement, 0-540 degree

CH11		**Pan fine**
	000←→255	Pan fine adjust(16Bit)
CH12		**Tilt**
	020←→255	Tilt movement, 0-250 degree
CH13		**Tilt fine**
	000←→255	Tilt fine adjust(16Bit)
CH14	000←→255	**Function setting(reserved)**
CH15		**Reset**
	000←→025	Unused range
	026←→076	Effects reset
	077←→127	Pan/tilt reset
	128←→255	Complete reset
CH16		**Lamp control**
	000←→009	Unused range
	010←→100	Lamp off
	101←→255	Lamp on
CH17		**Pan/tilt(pan fine/tilt fine) Speed**
	020←→255	Speed from fast to slow, 0-100%
CH18		**Color wheel speed**
	020←→255	Speed from fast to slow, 0-100%
CH19		**Dimmer-Prism-Frost speed**
	020←→255	Speed from fast to slow, 0-100%
CH20		**Gobo wheel speed**
	020←→255	Speed from fast to slow, 0-100%

Ⅶ COLOR WHEEL AND GOBO WHEEL

1. Color wheel
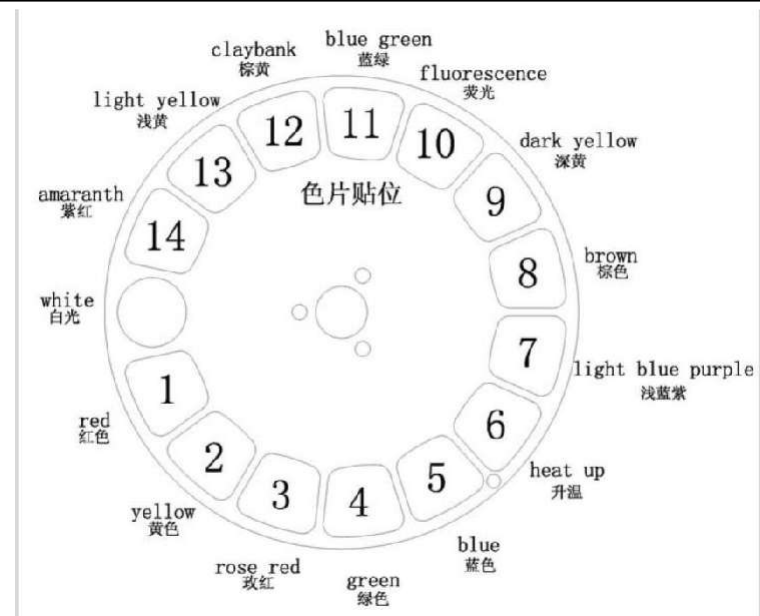
2. Gobo wheel
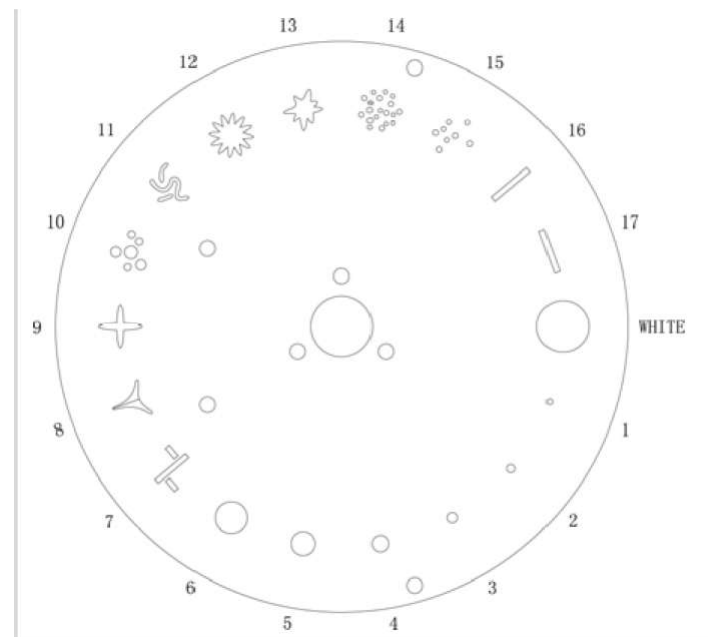
VIII TECHNICAL SPECIFICATION

Input power	AC100V~240V±10%/50~60Hz
Light sources	YODN MSD230 7R Lamp (Philips 7R 230W optional)
Ballast	Electronic ballast
Color temperature	8000K
Luminous flux	8250lm (6 meters)
Intensity of illumination	65760lx (20 meters)
Average life	2000 hours
Color wheel	14 colors + white, forward and backward rotation
Gobo wheel	17 fixed gobos + white, forward and backward rotation
Prism	Rotation eight prism, forward and backward rotation, effect movement, Atomization
Lens	3 pieces high quality lens group
Atomization effect	0~100% adjustable atomized flare angle
Iris	Seven beam control
Dimmer	Linear dimmer
Dimmer/Strobe	0~100% linear dimmer and double vanes strobe, speed control (0.5~14seconds)
Pan scan	540 degree, 8bit/16bit auto correction
Tilt scan	250 degree, 8bit/16bit auto correction
Beam angle	Parallel beam angle 0~3.8 degree
Control mode	International standard DMX-512
DMX channels	16CH/20CH
IP rating	IP20
Other functions	The power consumption of the light source will be half reduced when the light mechanical closed
Dimension	345mm(arm width)*475mm(total height)X405(base width)
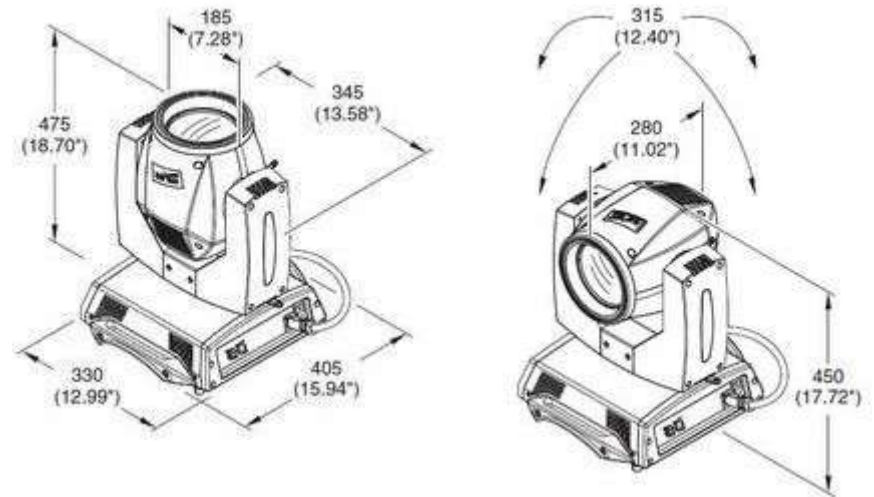
IX DIMENSION

Innovation, Quality, Performance, Achieving Users' Value!