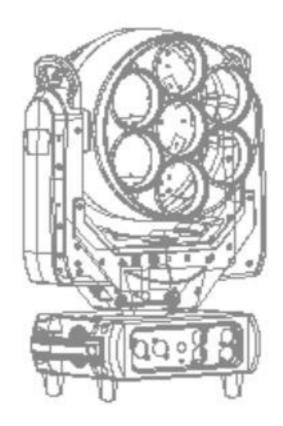
# 7x60W LED Wash Moving Head (With RDM)



# **User Manual**

Note: This manual include important information on how to install and use it safely. Please read it carefully before install and operate as required. At the same time, please keep this manual properly for emergencies.

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#### Accessories:

The following random accessories have been packaged with light, please check and verify:

Name	QTY	Remark
Signal cable	1	
Power cable	1	
User manual	1	
Safety rope	1	charge
G clamp	2	charge
Omega clamp	2	charge

When this product leaves the factory, the performance is intact and the packaging is complete. All users should strictly abide by the warnings and operating instructions stated in this manual. Any damage caused by misuse is not covered by the company's warranty. Failures and problems caused by ignoring the operating manual are not within the scope of the dealer's responsibility.

This manual is subject to technical changes without notice.

Note: The company's products are calculated based on the company's delivery date. The warranty period of the whole machine is one year, and the light source is not within warranty.



# SAFETY INSTRUCTIONS



#### Notice

Please read the safety requirements in this section carefully before installing, energizing, operating or repairing!

# The following important safety signs will be used in this product manual















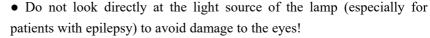


- After receiving the lamp, please unpack and check whether there is any damage caused by transportation. If there is damage caused by transportation, please do not use this lamp, and contact the dealer or manufacturer as soon as possible.
- The manufacturer will not be held responsible for the losses caused by not following this manual and changing the lamps at will.
- Please note that the damage to the lamp caused by the modification of the lamp is not covered by the warranty.
- If you have any questions or suggestions, please contact the dealer or manufacturer in time.



- When the lamp is in use, it must be kept away from high temperature, fire, electric shock, vibration and strong light environment.
- Qualified operators can carry out installation, maintenance and repair, and ensure that they operate in strict accordance with the operating procedures of this manual
- There are no children who can be repaired by the user inside this lamp, please do not open the lamp to repair by yourself.





- Do not connect this lamp to any other dimming device.
- If visible damage occurs to the light source, lens or display protective cover on the lamp, it is damaged to the extent of failure. If cracks or deformation occur, please stop using it and contact the manufacturer to replace the original accessories, otherwise normal use will be affected.
- The installation position of the luminaire should be such that it will not be stared at at a distance of less than 4 meters for a long time.



- Before starting to operate the lamp, please check whether all the covers (or shells) have been installed and whether the screws have been tightened reliably. It is forbidden to use the lamp with the cover (or shell) open.
- Keep the lamp clean and do not touch the lamp glass directly with your hands.
- During operation, it is recommended to wear necessary protective equipment, such as goggles, gloves, etc.
- The person who connects the electrical part must have the corresponding qualifications before the operation.
- Before installation, please make sure that the power supply voltage you are using matches the voltage marked on the lamp.



- Each lamp should be properly grounded, and electrical installation should be carried out in accordance with relevant standards.
- Do not use power cords with damaged insulation, and do not overlap power cords with other wires.
- When the lamp is not in use or cleaning, please hold the power cord plug to unplug it, do not pull or directly pull the power cord.
- Make sure that the power cord used complies with safety regulations.
- If the lamp is not waterproof or dustproof, please be careful not to short-circuit the lamp when it is exposed to rain or moisture during the operation of the lamp.
- Do not turn on or off the lamp repeatedly within a short period of time, as this will shorten the life of the lamp light source or other electrical

components.



- There is a safety rope connection hole at the bottom of the lamp. For safety reasons, please pass the safety rope equipped with the lamp through the safety rope connection hole for auxiliary lifting.
- Before any installation, maintenance and cleaning of the lamp, please make sure that the power supply has been cut off!
- Under normal working conditions at room temperature, the temperature of the outer metal surface of the lamp (including the surface of the radiator) will reach 50°C at the highest temperature.
- There will be smoke and peculiar smell before the light is turned on for the first time. This is a normal process and does not mean that the lamp is defective.
- When using, do not touch the shell with bare hands to avoid burns!



- Please do not install the lamp directly on the surface of ordinary combustible materials.
- Do not project the lamp directly on combustible objects, and the distance between the lamp and the illuminated object is more than 10 meters.
- The lamp should be installed in a well-ventilated place, and the distance from the wall should be kept at least 50 cm. At the same time, please check whether the fan and ventilation holes are unblocked.
- •Please do not expose the front glass to sunlight or other strong light sources from any angle. The lens may focus the light in the lamp, which may cause a potential fire hazard.



- This product complies with the "General Technical Requirements Standards for the Recycling of Waste Electrical and Electronic Products"
- When the product reaches the scrap standard and needs to be scrapped, the customer can scrap and recycle the product.

# 2

# **USER INSTRUCTIONS**

### **Cleaning and Maintenance**

When the lamp cannot be started, please check whether the power fuse of the lamp is blown. The lamp is equipped with an overheating protection device. The protection device will automatically cut off the power when it is overheated. When this happens, please check whether the fan is running normally and whether the fan and fan net are blocked by dust. Find out the fault and repair it before starting the lamp.

Because substances such as smoke oil and dust tend to adhere to the lens and reduce the light output, in order to ensure the reliable use of the lamp, it is very necessary to keep the lamp clean. The cooling fan should be cleaned every 15 days. The cleaning of internal and external optical lenses, mirrors, and coated color filters must be performed periodically to optimize light output.

The cleaning frequency depends on the operating frequency of the lamp and the surrounding environment. When cleaning, use a soft cloth and general glass cleaning products to clean. It is recommended to clean the external optical system at least once every 20 days, and clean the internal optical system at least once every 30/60 days. Keep the lens clean and do not directly touch the optics of the lamp with your hands.



- •Before performing any maintenance and cleaning the lamp, please make sure that the power has been cut off!
- •Only qualified technicians can carry out maintenance work.
- Before maintenance, the power must be completely cut off!



•In order to prevent sunlight or other light from directly irradiating the head lens and focusing on the inside of the lamp body to cause high temperature damage to the lamp, before the lamp is powered off,

please use the Y-axis control channel to keep the lamp head down.

- Do not wipe the lamp housing with organic solvents such as alcohol to avoid damage.
- Do not use any solvents containing chemical components to clean the coated color filters.

#### Lubrication

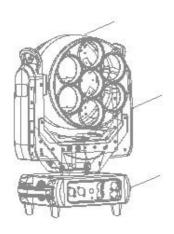
In order to maintain the smooth rotation of the gobo and the smooth movement of the focus lens, it is recommended to give the focus lens every two months 4 guide track lubrication once. Good and high-temperature-resistant lubricating oil/grease should be used.

#### Ordinary Troubleshooting

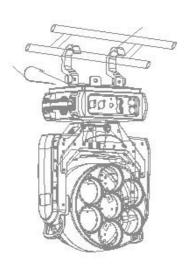
T
Take countermeasures
check if the power fuse is blown
Check if the bulb is in good condition
Check if the DMX start address of the
lamp is set correctly
Check if the XLR signal cable is damaged
Check whether the fan is working
normally, and whether dust is blocking the
fan and the fan net
Check whether the LED light source has
reached the expiration date
Check whether the internal and external
optical system is clean
Clean the dust and oil from the lens and
other parts
Check if the lens is broken
Clean the lens dust or oil

# 3

# LAMP APPEARANCE

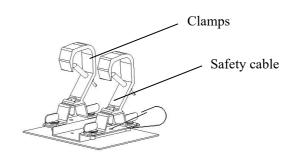


# 4 INSTALLATION



## Warning!!

To ensure safety, please pass the safety rope through the connection hole to ensure safety.



Take out the 2 hooks and 1 safety rope that came with the machine, use the 4 hook quick knobs attached to the hooks to install the 2 hooks on the bottom of the luminaire, and then hang the luminaire on the fixed bracket with the hooks and twist Tighten the hook and lock bolts to fix the whole lamp. Please confirm that the lamp is installed firmly and reliably, and ensure that the hoisting position has enough strength to bear the weight of the lamp. For safety reasons, please follow the warning shown in the figure above to pass the safety rope provided with the lamp through the safety hole at the bottom of the lamp holder for auxiliary lifting to ensure safety.

#### Warning!!

- The hook is only used when hoisting the lamp. It is strictly forbidden to use the hook as a handle to carry the lamp. Please use the handle when carrying.
- For safety reasons, please use a safety rope that can withstand 10 times the weight of the lamp to pass through the safety hole of the lamp for auxiliary lifting.

#### Power connection:

The power cord connection is as follows:

L (fire wire) = brown wire

E (ground wire) = yellow/green two-color wire

N (center line) = blue line

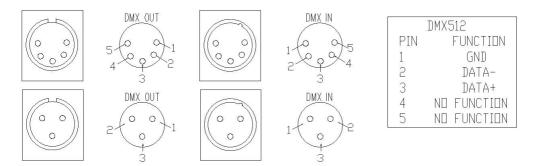
When connecting the power supply, please note that the power supply voltage and frequency must be consistent with the voltage and frequency marked on the nameplate of the lamp. When multiple lamps are used at the same time, it is recommended to connect the power supply of each lamp separately, so that each lamp can be individually controlled on/off.



- When connecting the power supply, the ground wire (yellow/green two-color wire) must be safely grounded, and the electrical installation must comply with all relevant standards.
- If you have any questions about electrical installation, please do not

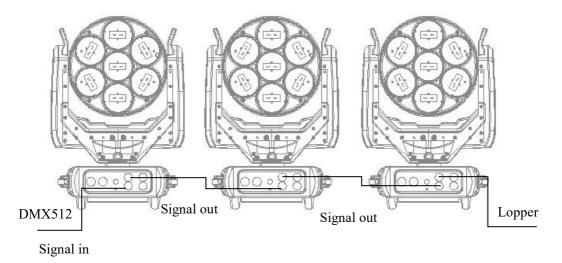
operate and consult a qualified electrician.

## Connection of control signal:



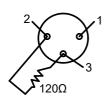
The connection between the lamp and the controller and between the lamp and the lamp must use a two-core shielded wire with a diameter of not less than 0.5 mm. Please use a 3-pin (included) XLR plug/seat to connect the DMX512 output/inlet of the lamp. The connection between the XLR plug/socket and the wire is shown in the list above. It must be noted that the 3-core of the XLR plug/seat cannot be in contact with the inner shell and the core and the core cannot be in contact during the connection. Except for the connection methods shown in the list above, the XLR plug/seat and the XLR control line cannot be connected in any other way. This product receives the international standard DMX512 (1990) control signal.

Use the XLR-XLR control cable to connect the DMX output port of the controller to the DMX input port of the first slave, and connect the DMX output port of the first slave to the DMX input port of the second slave, and so on By analogy, until all the slaves are connected, and finally the circuit is connected to the signal output port of the last lamp to complete the controller mode connection. As shown below:

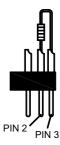


#### DMX loop plug

In the "controller mode", the DMX output port of the last lamp must be connected to the DMX loop plug. This circuit is inserted between pin 2 and pin 3 of the "Canon" plug and connected with a resistance of about 120  $\Omega$  (OHM) (as shown in the figure below). Plug this loop into the output port of the last lamp, which can effectively avoid the noise and reflection caused by the DMX512 signal during the transmission process.

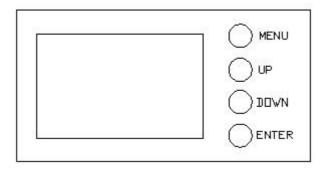


dmx loop plug connection Connect a 120  $\Omega$  (OHM) resistor before pin 2 and pin 3 of the XLR plug, and plug it into the DMX output of the last lamp



# 5 FUNCTION SETTING

#### Display operation



To view or modify the function settings of the lamp, press any key (in the power-on state) to light up the screen, and then press the UP and DOWN keys to enter the corresponding menu of the lamp. There are corresponding sub-menus in the function operation main menu, and each menu represents a specific function of the lamp. For details, see the sixth point "Operation Menu" below.

- 1. In the lamp function menu setting page, press the UP and DOWN keys to select the corresponding function.
- 2. When operating the menu, the MENU button is the menu button, and the ENTER button is the confirmation button. Press the ENTER button to save your changes or enter the submenu. Press the UP or DOWN button to modify the value (increase or decrease the value).

Press the MENU button to return to the previous menu. If you don't press it, the system will automatically return to the display state.

#### DMX address setting

When using the controller to control multiple lamps, each lamp must set the DMX start address to receive the signal from the controller and respond correctly. This product has two control modes, namely standard mode and simplified mode. Take the standard

mode as an example: the product has a total of 25 channels, then the DMX start address of the first lamp is set to 001, the second is 026, the third is 051 and so on.

The menu setting of this fixture optimizes the address setting. The operations for several setting address codes are as follows:

- 1 Select "Previous" or "Next", the lamp will automatically calculate the address code of the next or previous set according to the current address code and channel data, which can be set quickly;
- 2 Click the address code value to enter the value editing window, where any valid address code can be set, the fixture will automatically obtain the current channel number of the fixture, and automatically filter the unusable address code (512-current channel number).
- 3 The lamps support the RDM protocol, and the address code of the lamps can be set remotely through RDM.

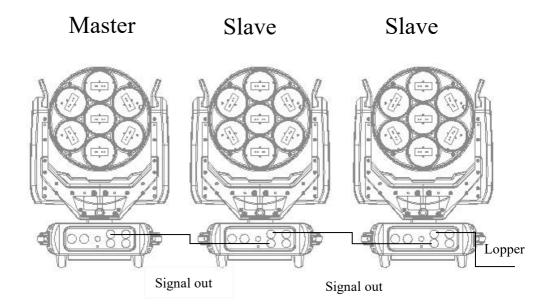
#### Stand-alone mode

Do not connect the controller and the control line. When the automatic program of the host mode of the lamp is set to be valid, the lamp will run in the stand-alone mode.

## Master/Slave synchronization mode

If you need to connect multiple fixtures in master/slave sync mode, first connect the XLR-XLR control cable from the DMX output port of the first fixture to the DMX input port of the second fixture, and then connect the XLR-XLR control cable from the DMX output port of the second fixture to the DMX input port of the second fixture Connect to the DMX input port of the third fixture, and so on, until all the fixtures are connected, then connect the loop plug to the signal output port of the last fixture to complete the connection, and then set the host in the menu, or Slave

After power on, the lighting group runs in master/slave synchronization mode.



# 6 MENU OPERATIONS

Option	Instruction			
	0-512			
Add	up			
	down			
	DMX	Console mode, receive DMX signal, RDM signal		
	Auto	run auto mode according to the built-in program		
Operate built-in program, otherwise it keeps		atically runs a scene according to the		
		scene mode, supports custom editing of		
		1-10	specified scene output	
		Auto	Automatically loop and output scenes in the	

_				
			order of the set scene time (non-zero), and the scene with time of 0 is automatically skipped and ignored	
	Master/slave	Run when not ir	n DMX mode, select the data output	
		mode, the lamp	automatically detects the DMX state	
		and switches th	e output to prevent data conflict	
			Build in program run, if there is no DMX signal, it will output data	
		Master	(synchronization), otherwise it will not	
			output data	
		Slave	Build in program run and do not output data (do not synchronize with other lamps)	
		Auto	no DMX signal, build in program run, otherwise, dmx signal run	
	Language	Language setting		
		English	English	
		中文	Chinese	
	screen protector	Set the screen content or method of the screen after		
		there is no operation on the screen for 30 seconds		
		off	Keep the last operation page, bright screen	
Display		Mode 1	Off	
		Model 2	black, The lower left corner displays the current fixture address code	
		Model 3	Display trademark, address code and operating mode	
	screen rotation	Seting the displa	ay orientation of the screen	
		off	Do not reverse the display	
		on	reverse the display	
		auto	Automatically detect the direction of the	

			lamps and lanterns, and switch the	
			display direction	
	DMX indication	Set the indication method of the DMX signal indicator		
		Model 1	With signal-on, without signal-off	
		Model 2	With signal-off,without signal-on	
		Model 3	With signal- flicker, without signal-off	
	screen backlight	Set the brightne	ss of the screen backlight after 10	
		seconds of no o	peration, bright when operate	
		1-10	10 levels	
	scene selection	operate the scer	ne	
		1-10	10 setting formats	
	Scene time	Set the retention	n time of the current scene in automatic	
		mode, the unit is	s 0.1 seconds	
scene		0	This scene does't participate in auto output	
		1-255	01 seconds to 25.5 seconds	
	1.X	0-255	Set the data of each channel, the	
		0-255	display content and sequence are in	
		0-255	one-to-one correspondence with the	
	N.function	0-255	channel table of the fixture	
	X-axis reversed	Set the X-axis ro	otation direction	
		off	not reverse	
		on	reverse	
	Y-axis reversed	Set the Y-axis rotation direction		
advanced		off	not reverse	
		on	reverse	
	Optocoupler	Set whether the fixture detects XY out of step and		
	Correction	corrects it		
		off	Do not correct position after out of step	

		on	Automatically correct position after out of step, and record out-of-step fault	
	X-axis offset	Set the position of the X-axis zero point of the fixture		
		4-150		
	Y-axis offset	Set the position	of the Y-axis zero point of the fixture	
		4-48		
	data retention	Setting dmx with	out signal,lighting output state	
			No signal,The motor and light source	
		off	return to the position and state when the reset was completed	
		on	No signal, keep the last DMX output	
	scene time	1-255		
	reset	Sure		
		No		
	Factory settings	Sure		
		No		
	Motor information	Displays the information status of all motors and sign		
			No-motor has no Hall calibration	
		Hall	0-motor leaves the calibration position 1-motor is at the calibration position.	
		Status	Motor reset completion status	
		X	Real-time position value	
status		Υ	Real-time position value	
		optocoupler	Display the two signal level status of the X and Y axis optocouplers, binary	
	Fault/Status Log	The last 8 fault r	ecords when the lamp is reset and	
		running, the fault record will not be saved after the		
		power is turned off, and the current power-on cycle will be valid		

	fault data  12: :03  Hall fault  hall error  Optocoupler failure  out of step  striker  sensor failure	total number of failures  The fault power-on time, in minutes  No valid signal detected signal is always valid  No valid optocoupler signal  Motor loses step during operation hits the positioning rod when motor reset
	Hall fault hall error Optocoupler failure out of step striker	No valid signal detected signal is always valid No valid optocoupler signal Motor loses step during operation hits the positioning rod when motor
	hall error Optocoupler failure out of step striker	signal is always valid  No valid optocoupler signal  Motor loses step during operation hits the positioning rod when motor
	Optocoupler failure out of step striker	No valid optocoupler signal  Motor loses step during operation hits the positioning rod when motor
	failure out of step striker	Motor loses step during operation hits the positioning rod when motor
	striker	hits the positioning rod when motor
	sensor failure	
	2222. 14.14.13	Temperature sensor signal error
	fan failure	Main fan work error
Lamp status	Display key statu	us data, for reference
	communication	0~100%, the communication quality of the data link inside the lamp
	error count	The total number of error frames detected after power-on
	led temperature	Display the temperature of the current light source, "" means no detection
	Display board temperature	Displays the current display board temperature or nearby ambient temperature
	Sensor temperature	Displays the current motherboard temperature or the ambient temperature where the motherboard is
Version	Display the infor	installed mation and version, an important
Information		er-sales maintenance
	equipment	name,Same as RDM information
	model	model, Same as RDM information
	Display board	Firmware version and serial number

		mainboard	Firmware version and serial number		
L	ight source time	Record the total cumulative time when the light source			
		is turned on, in minutes, and the user can manually			
		clear it as a time reference for the regular maintenance			
		of the light source.			
L	₋amp time	Record the total	cumulative time of the lamp being		
		turned on, in mir	nutes, which cannot be cleared.		

# 7 DMX CHANNEL

## 25/53 channel mode sheet

CH53	CH25	Function	Channel Value	Description
CH1	CH1	Pan	0-255	0-540°
CH2	CH2	Pan fine	0-255	0-2°
СНЗ	СНЗ	Tilt	0-255	0-270°
CH4	CH4	Tilt Fine	0-255	0-1°
CH5	CH5	X, Y speed	0-255	From fast to slow
CH6	CH6	Zoom	0-255	
			0-9	Off
CH7	CH7	Strobe	10-250	Strobe from slow to fast
			251-255	open
CH8	CH8	Dimmer	0-255	0-100% dimmer
CH9	СН9	Red	0-255	From dark to bright
CH10	CH10	Green	0-255	From dark to bright
CH11	CH11	Blue	0-255	From dark to bright
CH12	CH12	White	0-255	From dark to bright
CH13	CH13	Color	0-15	No function
СПІЗ	СПІЗ	temperature	16-255	2800K-8000K

			0-7	No function
			8-15	Color 1
			16-23	Color 2
CH14	CH14	Marco	•••••	
			232-239	Color 29
			240-247	Color 30
			248-255	Color 31
			0-4	No function
			5-9	Effect 1
			10-14	Effect 2
CH15	CH15	Running effect		
			240-244	Effect 48
			245-249	Effect 49
			250-255	Effect 50
CH16	CH16	Crood	0-127	Positive from slow to fast
CHIO	СПТ	Speed	0-255	Reverse from slow to fast
CH17	CH17	Red backlight	0-255	From dark to bright
CH18	CH18	Green backlight	0-255	From dark to bright
CH19	CH19	Blue backlight	0-255	From dark to bright
CH20	CH20	White backlight	0-255	From dark to bright
CH21	CH21		0-4	Off
		Backlight strobe	5-255	Strobe from slow to fast
CH22	CH22	Backlight dimmer	0-255	0-100% dimmer
CH23	CH23		0-14	Off
		Daaldink aff	15-20	Effect 1
		Backlight effect	21-25	Effect 2

			250-255	Effect 47
CH24	CH24	Backlight	0-127	Positive from fast to slow
		running speed	128-255	Reverse from slow to fast
CH25		LED1 R	0-255	From dark to bright
CH26		LED1 G	0-255	From dark to bright
CH27		LED1 B	0-255	From dark to bright
CH28		LED1 W	0-255	From dark to bright
CH52		LED7 W	0-255	From dark to bright
CH53	CH25	Reset	200-209	Reset all over 6 seconds

# 93 channel mode sheet

СН93	Function	Channel Value	Description
		0-9	Off
CH1	strobe	10-250	Strobe from slow to fast
		251-255	On
CH2	Dimmer	0-255	0-100% dimmer
СНЗ	Dimmer fine	0-255	0-100% dimmer
CH4	Red	0-255	From dark to bright
CH5	Red fine	0-255	From dark to bright
CH6	Green	0-255	From dark to bright
CH7	Green fine	0-255	From dark to bright
CH8	Blue	0-255	From dark to bright
CH9	Blue fine	0-255	From dark to bright
CH10	White	0-255	From dark to bright
CH11	White fine	0-255	From dark to bright

CH12		0-7	No function
		8-15	Color 1
	Marco	16-23	Color 2
		248-255	Color 31
CH13	Zoom	0-255	From far to near
CH14	Zoom fine	0-255	From far to near
CH15	Pan	0-255	0-540°
CH16	Pan fine	0-255	0-2°
CH17	Tilt	0-255	0-270°
CH18	Tilt Fine	0-255	0-1°
CH19	reset	200-209	Reset all over 6 seconds
		0-127	3k frequency
CH20	LED frequency	128-192	6k frequency
		193-255	12k frequency
CH21	Beam color mix	0-255	Color mix
CH22	Running effect	0-4	No function
		5-9	Effect 1
		10-14	Effect 2
		240-244	Effect 48
		245-249	Effect 49
		250-255	Effect 50
CH23	Running Speed	0-127	Positive from slow to fast
		0-255	Reverse from slow to fast
CH24	Back light effect	0-14	Off
		15*20	Effect 1
		21-25	Effect 2

		250-255	Effect 47
CH25	Backlight	0-127	Positive from fast to slow
	running speed	128-255	Reverse from slow to fast
CH26	Outer Backlight change	0-255	0-360°
CH27	Backlight strobe	0-4	Off
		5-255	Strobe from slow to fast
CH28	Backlight dim	0-255	0-100% dimmer
CH29	Dim fine	0-255	0-100% dimmer
CH30	Backlight R	0-255	0-100% dimmer Priority 5
CH31	Backlight G	0-255	0-100% dimmer Priority 5
CH32	Backlight B	0-255	0-100% dimmer Priority 5
CH33	Backlight CTO	0-255	1600K-12850K Priority 3
CH34	Backlight CTO	0-126	C down
	offset	127-128	no
		129-255	Green up
CH35	Backlight Marco	0-10	No
		0-25	R
		26-40	G
		41-55	В
		56-70	Υ
		71-85	Light Y
		86-100	orange
		101-115	orange blue
		116-130	white
		131-145	Light R
		146-160	Light G

		161-175	UV
		176-190	Light Y
		191-205	Light UV
		206-220	Pink
		221-235	Т
		236-255	Light B
CH36	blank		
CH37	R 1	0-255	From dark to bright
CH38	G 1	0-255	From dark to bright
CH39	B 1	0-255	From dark to bright
CH55	R 7	0-255	From dark to bright
CH56	G 7	0-255	From dark to bright
CH57	B 7	0-255	From dark to bright
CH58	Backlight R1	0-255	From dark to bright Priority 6
CH59	Backlight G1	0-255	From dark to bright
CH60	Backlight B1	0-255	From dark to bright
CH91	Backlight R12	0-255	From dark to bright
CH92	Backlight G12	0-255	From dark to bright
CH93	Backlight B12	0-255	From dark to bright
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# TECHNICAL PARAMETER

## **Electrical parameters:**

Voltage: 100V~240V AC, 50/60Hz

Power: 550W @ 220V

Power factor: PF>0.9

#### Light source specification:

Light source:7\*60W RGBW Osram high brightness LED + 70pcs\*0.5W RGB

Color temperature:7500K-8000K

Life time:50000 hours

#### Focus:

DMX linear focus adjustment, super smooth focus adjustment. the beam angle can be freely switched from 3 to 45 degrees

#### Strobe/Dimming:

Electronic strobe, 0.3-25 times/second, linear dimming

#### Rotation angle:

Use three-phase stepping motor, fast, quiet, with automatic return function.

Horizontal:540°

vertical: 270°

#### **Control mode:**

DMX512 signal, 3-pin + 5-pin 25CH,53CH,93CH 3 channel mode

#### Other functions:

Horizontal and vertical speed adjustable

Use powerful silent fan, LED temperature display, reduce power due to overheating, and ensure LED lifetime

Modular structure for easy maintenance

#### Housing material/protection level:

High temperature/UV light resistant engineering plastic

Protection grade: IP20

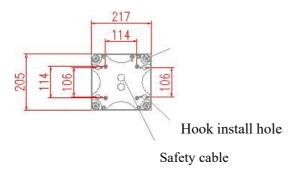
#### weight:

Net weight: 16.5KG Gross weight: 19KG packing size: (mm) 465(L)\*325(W)\*725(H)

#### Working temperature:

Maximum ambient temperature 50° C

#### **Bottom box installation dimensions**: (mm)



Body size: (mm)

