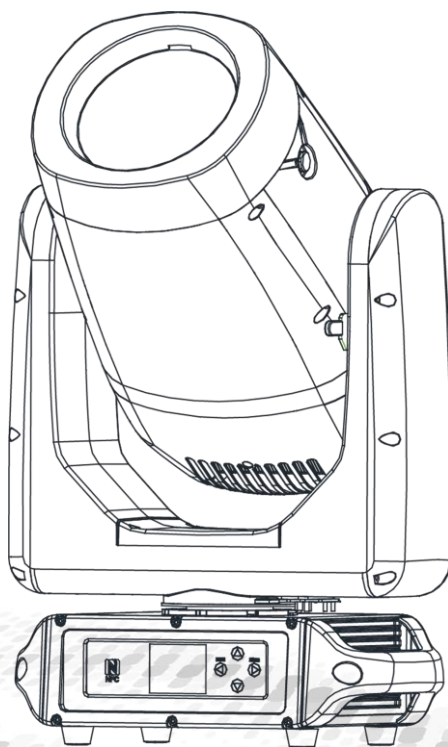




创意源于追求  
Own Idea Of Lighting

# NH1

## USER MANUAL



**MODEL:SS9462SCM**



— Since 1985 —

广州市雅江光电设备有限公司

Guangzhou Yajiang Photoelectric Equipment Ltd.

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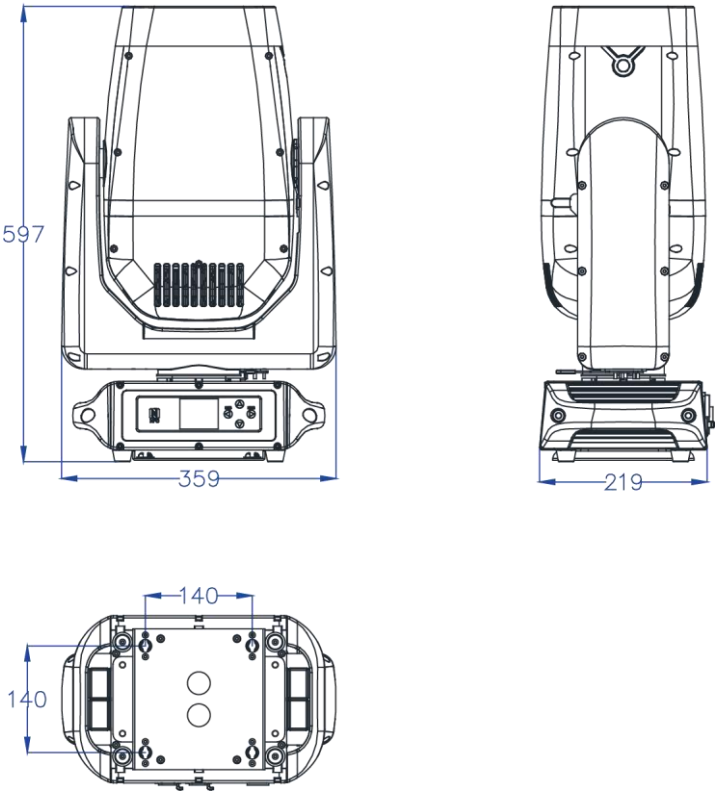
传真/Fax : 020 -86943773

网址/Website : www.yajiang.cn

# 1 PRODUCT

## 1.1 TECHNICAL SPECIFICATIONS

Type	SS9462SCM
LED colors	1 LED(CW) 350W
Angle	3° - 52°
Power	550W
Control Protocol	DMX512, RDM, NFC, W-DMX(Optional)
Voltage Range	100-240V~,50/60Hz
Input Current	110V/5A,220V/2.5A
Protection	IP66
Operation Temperature	-20℃~45℃
Dimensions	359*219*597mm
Weight	22kg



## 1.2 Safety Notes

### **IMPORTANT**

- This product must be installed by a qualified professional.
- 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
- The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

### **CAUTION!**

- Make sure that the available voltage is not higher than stated on the rear panel.
- Do not touch the power cables if your hands are wet.
- The earth wire must always be connected to the ground. Therefore it is essential to connect the yellow/green conductor to earth.
- Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time. The electric connection, repairs and servicing must be carried out by a qualified employee.
- Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.
- Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.
- Do not touch the device's housing bare hands during its operation (housing becomes hot)! The surface of the product's casing can reach up to 70° C (158° F) during operation. Avoid contact by persons and materials. Do not install the product in a location where there is a risk of accidental contact. Allow the product to cool for at least 10 minutes before handling.
- For replacement use lamps and fuses of same type and rating only.
- Please protect the fixture and avoid destroy during transport and installation. If there is any damage to the coating, the shell may be corroded.
- When hanging lamps and lanterns, it is necessary to verify that facilities and hooks can bear at least 10 times the weight of lamps and lanterns.
- Fix the safety rope at the correct holes only. Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- The maximum ambient temperature 45°C must never be exceeded. Do not operate the product if the ambient temperature (Ta) exceeds 45° C (115° F).
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

### **Electrical Warning**

- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person
- For replacement use lamps and fuses of same type and rating only.
- The lens has to be replaced when it is obviously damaged, so that its function is impaired, e. g. due to cracks or deep scratches!

### **Keep the product well away from flammable materials**

- Keep all combustible materials (e.g. fabric, wood, paper) at least 500 mm (20 in.) away from the product.
- Ensure that there is free and unobstructed airflow around the product. Provide a minimum

clearance of 150 mm (6 in.) around fans and air vents.

- Do not illuminate surfaces within 3 m (10 ft.) of the product.
- Do not install a fuse that has a higher rating than the one originally installed in the product. Do not bypass fuses.
- Do not stick filters, masks or other materials onto optical components.
- If the fixture seems to be abnormally hot, shows signs of melting or emits smoke, disconnect the fixture from power immediately and allow it to cool. Do not touch the fixture without heatproof safety gloves. Keep the fixture well away from combustible and flammable materials.

**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!  
RETINA INJURY RISK - MAY INDUCE BLINDNESS!**

**Do not point the front of the fixture towards the sun or other strong light sources. The front lens focuses and concentrates light just like a magnifying glass. Strong light can cause internal damage to the fixture, melting components or starting an internal fire within seconds.**

**To avoid problems from strong light sources:**

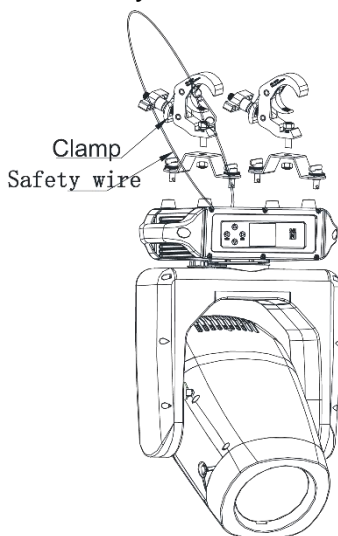
- Do not expose the front of a fixture to sunlight or any other strong light source. Avoid pointing other high-powered beam lights directly at the fixture.
- Do not focus a light beam from one lighting fixture directly towards another.
- For outdoor applications during daylight, make sure that the front face of any fixture is shielded or points away from the sun, even when not in use.
- Do not expose the product to heat (from other lighting fixtures for example).

## 2 INSTALLATION

### 2.1 MOUNTING

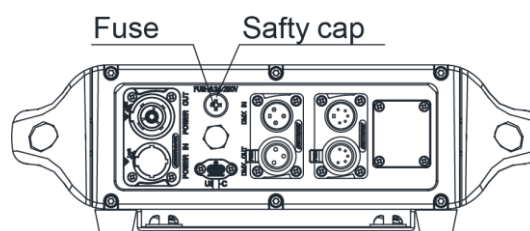
#### Truss installation

- ◆ Keep all combustible materials (e.g. fabric, wood, paper) at least 500 mm (20 in.) away from the product.
- ◆ For overhead use, always install a safety cable that can hold at least 10 times the weight of the fixture.
- ◆ For overhead installation, the fixture must be always secured with a safety wire that can bear at least 10 times the weight of the fixture;
- ◆ Secure the fixture with a safety cable through the rear safety eye and truss as shown..
- ◆ Ensure that the structure (truss) to which you are attaching the fixture is secure



### 2.2 Fuse replacement

- ◆ Remove the safety cap by a screwdriver.
- ◆ Fetch the old fuse from safety cap.
- ◆ Install a new fuse.
- ◆ Install the safety cap.



### 2.3 POWER CONNECTIONS

- ◆ POWER Linking: 3 units@110V; 6 units@220V.
- ◆ This product has an auto-ranging power supply that can work with an input voltage range of 100–240 VAC, 50/60 Hz.

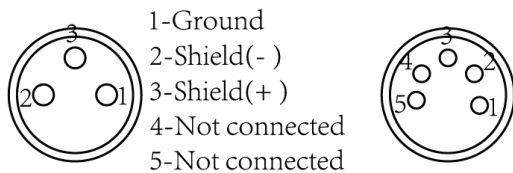
AC Plug

Connection	Wire (U.S.)	Wire(Europe)	Screw Color
AC Live	Black	Brown	Yellow/Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

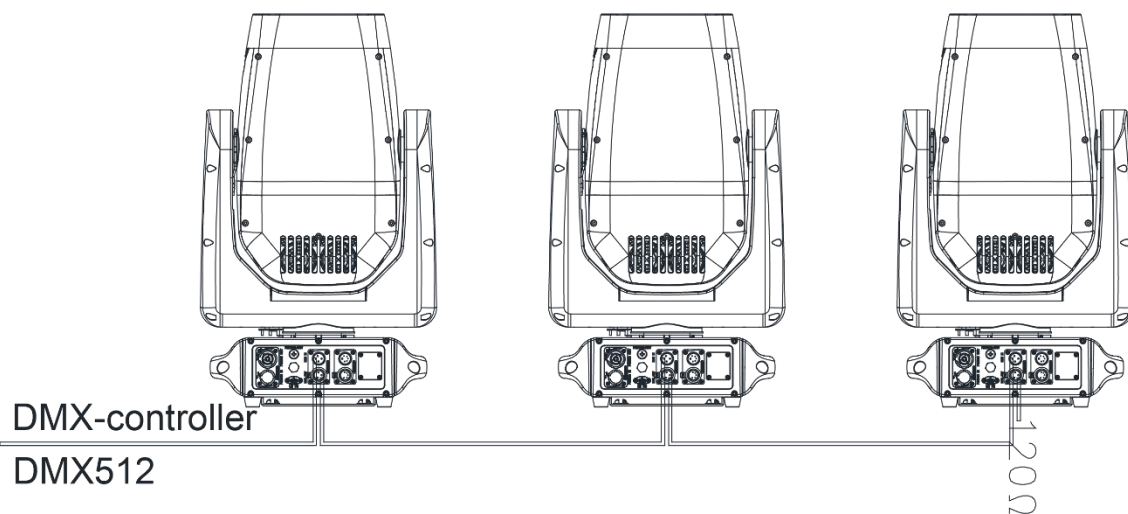
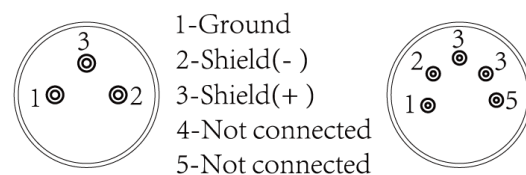
## 2.4 Data network requirements

- ◆ Connect the DMX512 controller to the units in series. A DMX 512 data link is required in order to control the fixture via DMX. The fixture has 3/5-pin XLR connectors for DMX data input and output.
- ◆ Each unit has N DMX channels so the DMX Addresses should increase by increments of 1, (Nx1)+1, (Nx2)+1, (Nx3)+1...
- ◆ Any DMX address in the range from 001 to 512 may be used.
- ◆ Connect the DMX-output of the first fixture in the DMX chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.
- ◆ Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120  $\Omega$  resistor between Signal (-) and Signal (+) into a 3/5-pin XLR-plug and plug it in the DMX-output of the last fixture.

DMX-output  
XLR mounting-sockets



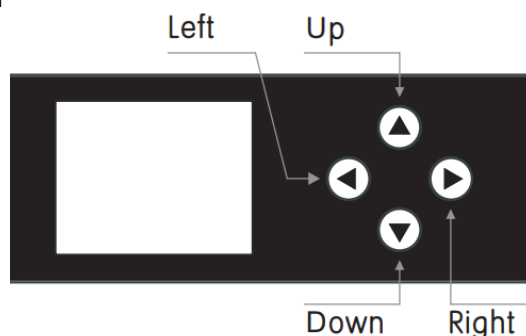
DMX-input  
XLR mounting-plugs



# 3 FUNCTIONS AND SETTINGS

## 3.1 DISPLAY OPERATION

- ◆ MENU: Used to access the menu or to return a previous menu option;
- ◆ ENTER: Used to select and store the current menu or confirm the current function value or option within a menu;
- ◆ UP: Navigates downwards through the menu list and increases the numeric value when in a function;
- ◆ DOWN: Navigates upwards through the menu list and decreases the numeric value when in a function;
- ◆ Lock screen password: Long press 5s Left, Input after the screen is bright - UP/DOWN/UP/DOWN



## 3.2 Menu Map

ADDRESS	001 – 512(Default 001)		DMX address setting
PERSON	BASIC		Use the menu to select desired channel mode
	STANDARD (Default)		
	EXTEND		
RUNMODE	DMX512 (Default)		Select Signal
	AUTO		Default: DMX512
	CUSTOM1		CUSTOM1-2 Set up get into EDIT MENU
	CUSTOM2		edit
OPTION	PAN INVERT	OFF (Default)	PAN moving direction selection
		ON	
	TILT INVERT	OFF (Default)	TILT moving direction selection
		ON	
	PERFORM	STUDIO	Fan mode low speed
		POWER	Fast rotation of fan, all power
		LIVE (Default)	Automatic rotation of fan
	BLACKOUT	OFF (Default)	Select OFF blackout without delay
		ON	Select ON Blackout delay 3s
	SUN PROTECTION	ON (Default)	Turn the fixtures Head to earth
		OFF	
	DIMMER MODE	Halogen (Default)	Dimming speed LED (fast) to Halogen (slow);
		LED	
	DIMMER CURVE	LINEAR	Sets the Dimmer curve
		SQUARE LAW (Default)	
		INV. SQUARE LAW	

		S-CURVE				
	LED PWM	1200Hz (Default)			Sets the PWM frequency	
		2400Hz				
		4000Hz				
		6000Hz				
		25000Hz				
	NO DMX MODE	FREEZE (Default)			Hold after loss of DMX signal	
		BLACKOUT			Blackout after loss of DMX signal	
	DISPLAY TIME	On			Display backlight always on	
		30s			Turns off display backlight after 30s/1min /2min of inactivity	
		1min (Default)				
		2min				
	DISPLAY LOCK	OFF			Locks display (passcode is <UP>, <DOWN>,<UP>, <DOWN>, <ENTER>)	
		ON (Default)				
	LOAD PARA	OFF			Upload data	
		NO			Not upload data	
	SETTING	RECOVERY	****			Restore default factory settings.
		CLEAN EDIT1	****			Clean customer self-editing scene 1
		CLEAN EDIT2	****			Clean customer self-editing scene 2
		WDMX HIDE	YES			Hide wireless mode WDMX reset and signal hide and the default is wired mode only
			NO			
	PT ENCODER	OFF			XY Encoder switch.	
		ON			OFF is close; ON is open.	
	LANGUAGE	****	Chinese			Language
			ENGLISH			
	WDMX RESET	YES			Clear the receiver's message	
NO			Do not clear the receiver's message			
SIGNAL	ONLY XLRDMX			ONLY XLR is wire only		
	XLRDMX FIRST			XLR FIRST is wire first		
	ONLY WDMX			ONLY WDMX is wireless only		
	WDMX FIRST			WDMX FIRS is wireless first		
	WDMX TO XLRDMX			WDMX TO DMX is wireless to wired		
EDIT	EDIT 1-2	STEP 1-30	PAN	0-255	Edit the custom programs1-30	
			TILT	0-255	Select play 【EDIT 1】 in RUNMOEDE CUSTOM 1; Select play 【EDIT 2】 in RUNMOEDE CUSTOM 2	
			PT SPEED	0-255		
			CMY C	0-255		
			CMY M	0-255		
			CMY Y	0-255		
			COLOR	0-255		
			ROTA.GOBO	0-255		
			GOBO.ROTA	0-255		
			FIXED GOBO	0-255		
			PRISM 1	0-255		
			PRISM 2	0-255		
			F/M COLOR	0-255		



			ZOOM	0-255	
			FOCUS	0-255	
			DIMMER	0-255	
			STROBE	0-25	
			TIME	0-255	
			USE	YES/NO	
MANUAL	Auto Test				Auto Test channel
	CHANNEL	PAN	0-255		Manual control channel
		TILT	0-255		
		PT SPEED	0-255		
		CMY C	0-255		
		CMY M	0-255		
		CMY Y	0-255		
		COLOR	0-255		
		ROTA.GOBO	0-255		
		GOBO.ROTA	0-255		
		FIXED GOBO	0-255		
		PRISM 1	0-255		
		PRISM 2	0-255		
		F/M COLOR	0-255		
		ZOOM	0-255		
		FOCUS	0-255		
		DIMMER	0-255		
		STROBE	0-25		
	DEBUG HIDE	YES			Factory testing mode. All stepper motors are not controlled by signal, It only works again after the reset.
		NO			
	RESET	ALL RESET			Select Yes/No to carry out all reset
		XY RESET			Select Yes/No to carry out P/T reset
		COLOR SYS			Color/CMYK reset
		FOCUS/ZOOM RESET			Focus/Zoom reset
		GOBO SYS			GOBO reset
INFO	FIXTURE HOURS				Hours of fixture use
	LED USE HOURS				LED use time
	TEMPERATURE				LED temperature
	VERSION				Software versions
	RDM	UID	0x388Axxxxxxx		Check fixture's ID
		LABEL			Check fixture's LABEL
	SYSTEM ERROR	MEMORY IC			Memory IC
		ANGLESENSOR			Angle Sensor
		PAN SENSOR			Pan Sensor
		PAN ENCODER			Pan Encoder
		PAN DRIVEIC			Pan Drive IC
		TILT SENSOR			Tilt Sensor
		TILT ENCODER			Tilt Encoder
TILT DRIVEIC			Tilt Drive IC		

		TEMPERATURE		Temperature
		CMY_C RESET		CMY C Reset
		CMY_M RESET		CMY M Reset
		CMY_Y RESET		CMY Y Reset
		COLOR RESET		Color Reset
		GOBO RESET		Gobo Reset
		RGOBO RESET		Rotate Gobo Reset
		FIXED GOBO		FIXED GOBO reset
		PRISM 1 RESET		PRISM 1 Reset
		PRISM 2 RESET		PRISM 2 Reset
		F/M-COLOR RESET		Prism Reset
		ZOOM RESET		ZOOM Reset
		FOCUS RESET		FOCUS Reset
		SERVICE	****	PAN
TILT	±127			Tilt position fine adjustment
CMY-C	±127			CMY-C position fine adjustment
CMY-M	±127			CMY-M position fine adjustment
CMY-Y	±127			CMY-Y position fine adjustment
COLOR	±127			CTO position fine adjustment
ROTA. GOBO	±127			Rotate Gobo position fine adjustment
GOBO.ROTA	±127			Self-rotation position fine adjustment
FIXED GOBO	±127			Fixed Gobo position fine adjustment
PRISM 1	±127			Prism 1 position fine adjustment
PRISM 2	±127			Prism 2 position fine adjustment
F/M-COLOR	±127			F/M-COLOR position fine adjustment
ZOOM	±127			Zoom position fine adjustment
FOCUS	±127			Focus position fine adjustment
UPDATE SOFTWARE				Update software
All passwords of this product are <UP>, <DOWN>,<UP>, <DOWN>, <ENTER>				

# 4 USING A DMX512 CONTROLLER

## 4.1 DMX CONTROL

BASIC (21CH)	STANDARD (25CH)	EXTEND (28CH)	VALUE	Functions
1	1	1	000-255	PAN 0-540°
-	2	2	000-255	PAN FINE
2	3	3	000-255	TILT 0-270°
-	4	4	000-255	TILT FINE
3	5	5	000-255	PT Speed
4	6	6	000-255	CYAN
5	7	7	000-255	MAGENTA
6	8	8	000-255	YELLOW
7	9	9	<b>COLOUR MACRO</b>	
			000-010	No Function
			11-20	L106
			21-30	L194
			31-40	L019
			41-50	R08
			51-60	L213
			61-70	R80
			71-80	L202
			81-90	L328
			91-100	R3314
			101-110	L101
			111-120	L768
			121-128	No Function
			129-147	CYAN 100% / MAGENTA UP / YELLOW 0%
			148-166	CYAN DOWN / MAGENTA 100% / YELLOW 0%
			167-185	CYAN 0% / MAGENTA 100% / YELLOW UP
			186-204	CYAN 0% / MAGENTA DOWN / YELLOW 100%
			205-223	CYAN UP / MAGENTA 0% / YELLOW 100%
			224-242	CYAN 100% /MAGENTA 0%/YELLOW DOWN
			243-255	CYAN 100%/MAGENTA UP/YELLOW 0%
8	10	10	000-255	CMY SPEED(SPEED 100%=>1)
9	11	11	<b>COLOR WHEEL 8+1</b>	
			000-007	WHITE
			008-014	COLOR 1
			015-021	COLOR 2
			022-028	COLOR 3

			029-035	COLOR 4
			036-042	COLOR 5
			043-049	COLOR 6
			050-056	COLOR 7
			057-063	COLOR 8
			064-191	COLOR WHELL1 0-360°
			192-222	COLOR WHELL1 RAINBOW EFFECT(SPEED 100%→1)
			223-224	STOP
			225-255	COLOR WHELL1 RAINBOW EFFECT(SPEED 1→100%)
-	-	12	000-255	COLOR WHEEL FINE
10	12	13	<b>ROTATING GOBO 7+1</b>	
			000-010	ROTATING WHITE
			011-018	ROTATING GOBO 1
			019-026	ROTATING GOBO 2
			027-034	ROTATING GOBO 3
			035-042	ROTATING GOBO 4
			043-050	ROTATING GOBO 5
			051-058	ROTATING GOBO 6
			059-066	ROTATING GOBO 7
			067-074	ROTATING GOBO 1 SHAKE (SPEED 1 → 100%)
			075-082	ROTATING GOBO 2 SHAKE (SPEED 1 → 100%)
			083-090	ROTATING GOBO 3 SHAKE (SPEED 1 → 100%)
			091-098	ROTATING GOBO 4 SHAKE (SPEED 1 → 100%)
			099-106	ROTATING GOBO 5 SHAKE (SPEED 1 → 100%)
			107-114	ROTATING GOBO 6 SHAKE (SPEED 1 → 100%)
			115-122	ROTATING GOBO 7 SHAKE (SPEED 1 → 100%)
			123-127	WHITE
			128-190	STATIC GOBO POSITIVE WATER EFFECT (SPEED 100 → 1%)
			191-192	STOP WATER EFFECT
			193-255	STATIC GOBO REVERSE WATER EFFECT (SPEED 1 → 100%)
			191-192	STOP WATER EFFECT
			193-255	ROTATING GOBO FLOWING WATER EFFECT (SPEED 1 → 100%)
11	13	14	<b>GOBO ROTATING</b>	
			000-120	ROTATING GOBO ANGLE ADJUSTMENT (0 → 360°)
			121-125	STOP
			126-165	ROTATING GOBO SHAKE (SPEED 1 → 100%)
			166-170	STOP
			171-210	ROTATING GOBO POSITIVE ROTATION

				(SPEED 100% → 1)
			211-215	STOP
			216-255	ROTATING GOBO REVERSE ROTATION (SPEED 1 → 100%)
-	14	15	000-255	GOBO ROTATING FINE
12	15	16	<b>FIXED GOBO WHEEL 12+1</b>	
			000-010	WHITE
			011-014	FIXED GOBO 1
			015-018	FIXED GOBO 2
			019-022	FIXED GOBO 3
			023-026	FIXED GOBO 4
			027-030	FIXED GOBO 5
			031-034	FIXED GOBO 6
			035-038	FIXED GOBO 7
			039-042	FIXED GOBO 8
			043-046	FIXED GOBO 9
			047-050	FIXED GOBO 10
			051-054	FIXED GOBO 11
			055-058	FIXED GOBO 12
			059-063	FIXED GOBO 1 SHAKE (SPEED 1 → 100%)
			064-068	FIXED GOBO 2 SHAKE (SPEED 1 → 100%)
			069-073	FIXED GOBO 3 SHAKE (SPEED 1 → 100%)
			074-078	FIXED GOBO 4 SHAKE (SPEED 1 → 100%)
			079-083	FIXED GOBO 5 SHAKE (SPEED 1 → 100%)
			084-088	FIXED GOBO 6 SHAKE (SPEED 1 → 100%)
			089-093	FIXED GOBO 7 SHAKE (SPEED 1 → 100%)
			094-098	FIXED GOBO 8 SHAKE (SPEED 1 → 100%)
			099-103	FIXED GOBO 9 SHAKE (SPEED 1 → 100%)
			104-108	FIXED GOBO 10 SHAKE (SPEED 1 → 100%)
			109-113	FIXED GOBO 11 SHAKE (SPEED 1 → 100%)
			114-118	FIXED GOBO 12 SHAKE (SPEED 1 → 100%)
			119-127	WHITE
			128-190	STATIC GOBO JUMPING WATER EFFECT (SPEED 100 → 1%)
			191-192	STOP WATER EFFECT
			193-255	STATIC GOBO FLOWING WATER EFFECT (SPEED 1 → 100%)
13	16	17	<b>PRISM LINEAR 6</b>	
			000-010	WHITE
			011-145	PRISM INSERT AND ADJUST THE ANGLE (0 → 360°)
			146-150	STOP

			151-200	PRISM INSERT AND POSITIVE ROTATION (SPEED 100% → 1)
			201-205	STOP ROTATION
			206-255	PRISM INSERT AND REVERSE ROTATION (SPEED 1 → 100%)
14	17	18	<b>PRISM ROUND 8</b>	
			000-010	WHITE
			011-145	PRISM INSERT AND ADJUST THE ANGLE (0 → 360°)
			146-150	STOP
			151-200	PRISM INSERT AND POSITIVE ROTATION (SPEED 100% → 1)
			201-205	STOP ROTATION
			206-255	PRISM INSERT AND REVERSE ROTATION (SPEED 1 → 100%)
15	18	19	<b>FROST/MULTI-COLOR</b>	
			000-063	OPEN
			064-127	FROST
			128-255	MULTI-COLOR
16	19	20	000-255	ZOOM
-	-	21	000-255	ZOOM FINE
17	20	22	000-255	FOCUS
-	-	23	000-255	FOCUS FINE
18	21	24	<b>AUTO FOCUS</b>	
			000-012	NO FUNCTION
			013-039	3 METER
			040-066	5 METER
			067-093	7 METER
			094-120	9 METER
			121-147	11 METER
			148-174	13 METER
			175-201	15 METER
			202-228	17 METER
			229-255	19 METER
19	22	25	000-255	DIMMER
-	23	26	000-255	DIMMER FINE
20	24	27	<b>STROBE</b>	
			000-009	NO FUNCTION
			010-099	STROBE ( FROM SLOW TO FAST )
			100-109	NO FUNCTION
			110-179	LIGHTNING STROBE
			180-189	NO FUNCTION

			190-255	RANDOM STROBE
21	25	28	<b>CONTROL CHANNEL</b>	
			000-010	NO FUNCTION
			011-020	PAN/TILT BLACK ACTIVATED
			021-030	PAN/TILT BLACK DEACTIVATED
			031-035	PAN INVERT
			036-040	TILT INVERT
			041-045	PAN/TILT INVERT OFF
			046-050	Sun Protection On
			051-055	Sun Protection Off
			056-060	No function
			061-070	STUDIO
			071-080	POWER
			081-90	LIVE
			091-100	DIMMER SPEED Halogen
			101-110	DIMMER SPEED LED
			111-120	DIMMER CURVE LINEAR
			121-130	DIMMER CURVE SQUARE LAW
			131-140	DIMMER CURVE INV. SQUARE LAW
			141-150	DIMMER CURVE S-CURVE
			151-160	1200Hz
			161-170	2400Hz
			171-180	4000Hz
			181-190	6000Hz
			191-200	25000Hz
			201-210	ALL RESET
			211-220	XY RESET
			221-230	COLOR SYSTEM RESET
			231-240	FOCUS\ZOOM RESET
			241-250	GOBO RESET
			251-255	NO FUNCTION