

# **BX**USER MANUAL





MODEL: SS9451SCM



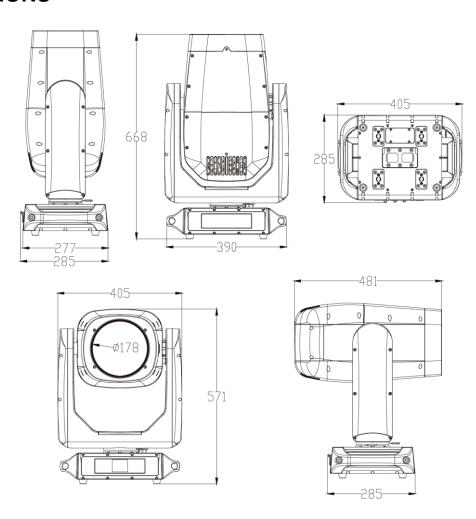
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# 1 PRODUCT

## 1.1 TECHNICAL SPECIFICATIONS

Туре	SS9451SCM	
LED colors	100W Laser source	
Angle	0.7° - 5°	
Power	270W	
Control Protocol	DMX512/RDM/ARTNET/sACN/NFC/CRMX(Optional)	
Voltage Range	100-240V~	
Frequency Range	50/60Hz	
Input Current	110V/2.5A,220V/1.3A	
Protection	IP66	
Operation Temperature	-15℃~45℃	
Dimensions	405x258x668mm	
Weight	26.7kg	

## **DIMENSIONS**



## 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 nonobservance of this manual or any unauthorized modification to the device.

# **ACAUTION**



Emitted wavelength:455nm.
Pulse pattern:continuous radiation.
Maximum power or energy output:≤1.0mW.
Complies with IEC 60825-1:2014 Class 1
IEC 62471 Risk Group3.

# **ACAUTION**



CAUTION! Risk group 3, RG-3Avoid looking directly into the light source.

#### **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 20m (65.6 feet) away from the product.
- Ensure that there is free and unobstructed airflow around the product. Provide a minimum clearance of 500 mm (20 in.) around fans and air vents.
- Do not illuminate surfaces within 20 m (65.6 feet) 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:

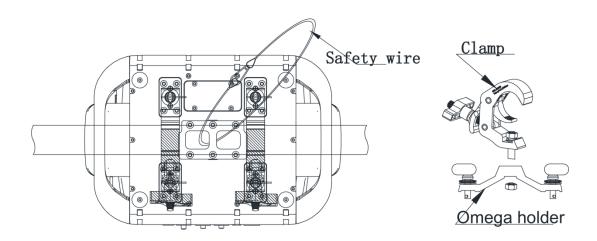
- Do not expose the front of a fixture to sunlight or any other strong light source. Avoid pointing other high-powered beam lights directly at the fixture.
- Do not focus a light beam from one lighting fixture directly towards another.
- For outdoor applications during daylight, make sure that the front 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

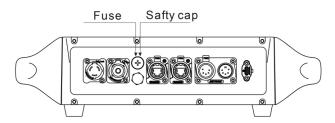
#### **Truss installation**

- ♦ 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.



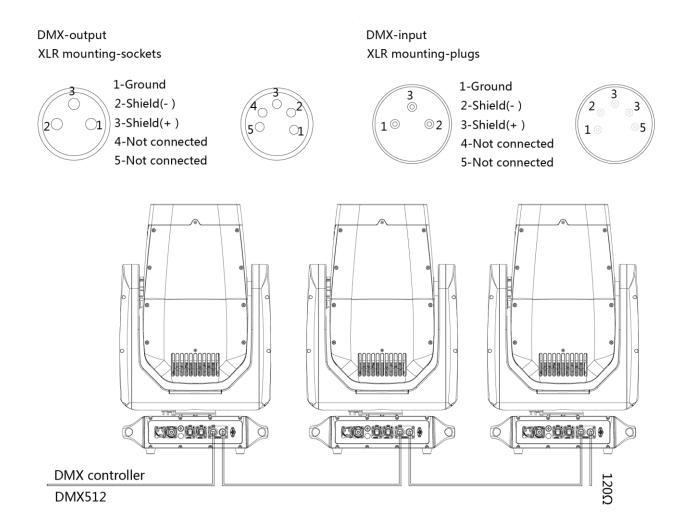
#### 2.3 POWER CONNECTIONS

◆ This product has an auto-ranging power supply that can work with an input voltage range of 100–240 VAC, 50/60 Hz.

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 Ω resistor between Signal (−) and Signal (+) into a 3/5-pin XLR-plug and plug it in the DMX-output of the last fixture.



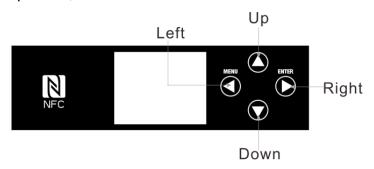
## **3 FUNCTIONS AND SETTINGS**

### 3.1 DISPLAY OPERATION

- ◆ LEFT: Used to access the menu or to return a previous menu option;
- RIGHT: 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:

**♦** 

- When the display locked, please unlock the display as below:
  - 1. Keep pressing BACK around 5sec, until the display shows inset password.
  - 2. Press "up down up down, enter" to unlock.



## 3.2 Menu Map

ADDRESS	001 – 512(Defau	lt 001)	DMX address setting
PERSON	BASIC		Use the menu to select desired channel
	STANDARD (De	fault)	mode
	EXTEND		
RUNMODE	DMX512 (Defaul	t)	Select Signal
	ARTNET		Default: DMX512
	ARTNET TO DM	Х	ARTNET: Ethernet control
	sACN		CUSTOM1-2 Set up get into EDIT
	AUTO		MENU edit
	CUSTOM1		
	CUSTOM2		
`	PAN INVERT	NORMAL (Default)	PAN moving direction selection
OPTION	PANINVERI	INVERT	
	TILT INVERT	NORMAL (Default)	TILT moving direction selection
	ILLIINVERI	INVERT	
		STUDIO	Fan mode low speed
	PERFORM	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
DIMMER	Halogen (Defau	ılt)	Dimming speed LED (fast) to Halogen
SPEED	LED		(slow);
	LINEAR		Sets the Dimmer curve
DIMMER	SQUARE LAW		
CURVE	INV. SQUARE	LAW	
	S-CURVE		
	1200Hz (Defau	lt)	Sets the PWM frequency
	2400Hz		. ,
LED PWM	4000Hz		
	6000Hz		
	25000Hz		
DMV EDDOD	SAVE (Default)		Hold after loss of DMX signal
DMX ERROR	BLACK		Blackout after loss of DMX signal
	On		Display backlight always on
	30s		Turns off display backlight after
DISPLAY TIME	1min (Default)		30s/1min
	2min		/2min of inactivity
	OFF		Locks display (passcode is <uf< td=""></uf<>
DISPLAY LOCK	ON (Default)		<pre></pre>
	OFF		Not upload data
LOAD PARA	ON (Default)		Upload data
	RECOVERY	***	Restore default factory settings.
	CLEAN		Clean customer self-editing scene 1
	EDIT1	***	Occur oustomer sen cultury seeme 1
	CLEAN		Clean customer self-editing scene 2
SETTING	EDIT2	****	Clean customer sen-eutting scene 2
	EDITZ	NO	Hide wireless mode WDMX reset a
	MOMYLUDE	NO	
	WDMX HIDE	YES	signal hide and the default is wire
		0	mode only
NETWORK	NET SWITCH	2.xxx.xxx	Net switch off IP mode
		10.xxx.xxx	Net switch on IP mode
	UNIVERS	0-255	Packet group Settings
	IP MODE	DEFAUL IP	Default IP
		CUSTOM IP	Customer's IP
	CUSTOM IP	XX.XX.XX	Customer's IP setting
PT ENCODER	OFF		XY Encoder switch.
. I LINOODLIN	ON		OFF is close; ON is open.
LANGUAGE	***	Chinese	LANGUAGE
LINGUAGE	ENGLISH		
WDMX RESET	NO		Do not clear the receiver's message.

		YES				Clear the receiver's message
		ONLY XLRDM	X		ONLY XLR is wire only	
		XLRDMX FIRS	ST T		XLR FIRST is wire first	
	SIGNAL	ONLY WDMX				ONLY WDMX is wireless only
		WDMX FIRST				WDMX FIRS is wireless first
		WDMX TO XLF	RDM	ζ		WDMX TO DMX is wireless to wired
EDIT			PAI	N	0-255	Edit the custom programs1-30
			TIL	T	0-255	Select play 【EDIT 1】 in RUNMOEDE
			PT	SPEED	0-255	CUSTOM 1; Select play 【EDIT 2】 in
			CM	Y_C	0-255	RUNMOEDE CUSTOM 2
				Y_M	0-255	
			-	  Y_Y	0-255	_
				 LOR	0-255	7
				TA.GOBO	0-255	7
				BO.ROTA	0-255	-
	EDIT 1-2	STEP 1-30	-	ED GOBO	0-255	-
			-	ISM 1	0-255	+
			-	ISM 2	0-255	-
					0-255	-
				FROST 0-255 FOCUS 0-255		-
			DIMMER			$\dashv$
					0-255	
		-	STROBE TIME		0-25 0-255	-
			USE		YES/NO	Select YES to run the steps user need.
MANUAL			001		120/110	Oelect 123 to full the steps user freed.
WANUAL	AUTO TEST					
		PAN		0-255		Manual control channel
		TILT		0-255		_
		PT SPEED		0-255		_
		CMY_C		0-255		_
		CMY_M		0-255		
CHA		CMY_Y		0-255		
		COLOR		0-255		
	CHANNEL	ROTA.GOBO		0-255		_
		GOBO.ROTA		0-255		_
		FIXED GOBO		0-255		4
		PRISM 1		0-255		4
		PRISM 2		0-255		_
		FROST		0-255		_
		FOCUS		0-255		_
		DIMMER		0-255		$\dashv$
		STROBE		0-25		

		YES			Factory testing mode. All stepper
	DEBUG HIDE	120			motors are not controlled by signal, It
	DEBOG TIIDE	NO			only works again after the reset.
		ALL RESET			Select Yes/No to carry out all reset
		PT RESET			Select Yes/No to carry out P/T reset
	RESET	COLOR SYST	EM		COLOR/CTO reset
		OTHER			Focus GOBO reset
INFO	FIXTURE HOUR	 RS			Hours of fixture use
	LED USE HOUR	RS			LED use time
	TEMPERATURE				LED temperature
	VERSION				Software versions
	NETWORK				Check network parameter
	- NETWORK	UID	0x388A	XXXXXXXX	Check fixture's ID
	RDM	LABEL	0,000,1	*********	Check fixture's LABEL
		MEMORY IC			
			<b>ND</b>		Memory IC
		ANGLESENSO			Angle Sensor Pan Sensor
		PAN SENSOR			
		PAN ENCODE	K		Pan Encoder
		PAN DRIVEIC			Pan Drive IC
		TILT SENSOR			Tilt Sensor
		TILT ENCODE	R		Tilt Encoder
		TILT DRIVEIC			Tilt Drive IC
	SYSTEM	TEMPERATUR			Temperature
	ERROR	CMY_C RESE			CMY_C Reset
		CMY_M RESET			CMY_M Reset
		CMY_Y RESET COLOR RESET			CMY_Y Reset  COLOR Reset
		GOBO RESET			GOBO Reset
		RGOBO RESET			RGOBO Reset
		FIXED GOBO			FIXED GOBO reset
		PRISM 1 RESI	ET		PRISM 1 Reset
		PRISM 2 RESI	ET		PRISM 2 Reset
		FOCUS RESE	Т		FOCUS Reset
SERVICE		PAN		±127	Pan position fine adjustment
		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	Color position fine adjustment
		ROTA.GOBO		±127	ROTA.GOBO position fine adjustment
		GOBO.ROTA		±127	GOBO.ROTA position fine adjustment
		FIXED GOBO		±127	Gobo position fine adjustment

		PRISM 1	±127	Prism1 position fine adjustment	
		PRISM 2	±127	Prism2 position fine adjustment	
		FOCUS	±127	Focus position fine adjustment	
		OTHER	±127		
UPDATE SOFTWARE UPDATE SOFTWARE					
All passwords of this product are <up>, <down>, <up>, <down>, <enter></enter></down></up></down></up>					

# **4 USING A DMX512 CONTROLLER**

## **4.1 DMX CONTROL**

BASIC (19CH)	STANDARD (23CH)	Extend (27CH)	Value	Function
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
			COLOUR	MACRO
			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
7	9	9	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)
			COLOR W	HEEL 19+1
			0-7	WHITE
			8-10	COLOR 1
			11-13	COLOR 2
9	11	11	14-16	COLOR 3
9	11	''	17-19	COLOR 4
			20-22	COLOR 5
			23-25	COLOR 6
			26-28	COLOR 7
			29-31	COLOR 8

			00.04	001.00.0
			32-34	COLOR 9
			35-37	COLOR 10
			38-40	COLOR 11
			41-43	COLOR 12
			44-46	COLOR 13
			47-49	COLOR 14
			50-52	COLOR 15
			53-55	COLOR 16
			56-58	COLOR 17
			59-61	COLOR 18
			62-64	COLOR WUELLA O 2000
			65-191	COLOR WHELL1 0-360°
			192-222	COLOR WHELL1 RAINBOW EFFECT(SPEED 100%->1)
			223-224	STOP
		40	225-255	COLOR WHELL1 RAINBOW EFFECT(SPEED 1->100%)
-	-	12	000-255	COLOR WHEEL FINE
				G GOBO 6+1
		000-010	ROTATING CORO 4	
			011-019	ROTATING CORO 2
			020-028	ROTATING CORO 2
			029-037 038-046	ROTATING CORO 4
			038-046	ROTATING GOBO 4 ROTATING GOBO 5
			056-064	ROTATING GOBO 6
			065-073	ROTATING GOBO 6  ROTATING GOBO 1 SHAKE (SPEED 1 —> 100%)
			074-082	ROTATING GOBO 2 SHAKE (SPEED 1 —> 100%)
10	12	13	083-091	ROTATING GOBO 2 STAKE (SPEED 1 —> 100%)  ROTATING GOBO 3 SHAKE (SPEED 1 —> 100%)
			092-100	ROTATING GOBO 4 SHAKE (SPEED 1 —> 100%)
			101-109	ROTATING GOBO 5 SHAKE (SPEED 1 —> 100%)
			110-118	ROTATING GOBO 6 SHAKE (SPEED 1 —> 100%)
			119-127	WHITE
			110 127	ROTATING GOBO FLOWING WATER EFFECT (SPEED
			128-190	100 -> 1%)
			191-192	STOP WATER EFFECT
			101 102	ROTATING GOBO FLOWING WATER EFFECT (SPEED
			193-255	1 -> 100%)
-	_	14	000-255	ROTATING GOBO FINE
			GOBO RO	
	11 13		0-120	ROTATING GOBO ANGLE ADJUSTMENT (0 -> 360°)
			121-125	STOP
			126-165	ROTATING GOBO SHAKE (SPEED 1> 100%)
			166-170	STOP
11		15		ROTATING GOBO POSITIVE ROTATION (SPEED 100%
			171-210	—> 1) ·
			211-215	STOP
			240.055	ROTATING GOBO REVERSE ROTATION (SPEED 1>
			216-255	100%)
	<u> </u>	1	I	·

FIXED GOBO WHEEL 19+1	-	-	16	000-255	GOBO ROTATING FINE
0-10 WHITE  11-13 FIXED GOBO 1  14-16 FIXED GOBO 2  17-19 FIXED GOBO 3  20-22 FIXED GOBO 3  20-22 FIXED GOBO 4  23-25 FIXED GOBO 6  29-31 FIXED GOBO 6  29-31 FIXED GOBO 7  32-34 FIXED GOBO 8  35-37 FIXED GOBO 9  38-40 FIXED GOBO 9  38-40 FIXED GOBO 10  41-43 FIXED GOBO 11  44-46 FIXED GOBO 12  47-49 FIXED GOBO 13  50-52 FIXED GOBO 15  56-58 FIXED GOBO 15  56-58 FIXED GOBO 16  59-61 FIXED GOBO 16  59-61 FIXED GOBO 18  65-67 FIXED GOBO 18  65-67 FIXED GOBO 18  65-67 FIXED GOBO 3 SHAKE (SPEED 1 → 100%)  71-73 FIXED GOBO 3 SHAKE (SPEED 1 → 100%)  80-82 FIXED GOBO 3 SHAKE (SPEED 1 → 100%)  80-82 FIXED GOBO 4 SHAKE (SPEED 1 → 100%)  80-82 FIXED GOBO 5 SHAKE (SPEED 1 → 100%)  80-82 FIXED GOBO 5 SHAKE (SPEED 1 → 100%)  80-81 FIXED GOBO 6 SHAKE (SPEED 1 → 100%)  80-91 FIXED GOBO 6 SHAKE (SPEED 1 → 100%)  92-94 FIXED GOBO 7 SHAKE (SPEED 1 → 100%)  93-95 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  94-100 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  101-103 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  101-104 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  101-105 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  101-106 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  101-107 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  101-108 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  101-109 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  101-109 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 1 SHAKE (SPEED 1 → 100%)					
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14   17   20-22   FIXED GOBO 4   23-25   FIXED GOBO 5   26-28   FIXED GOBO 6   29-31   FIXED GOBO 6   29-31   FIXED GOBO 8   32-34   FIXED GOBO 8   35-37   FIXED GOBO 9   38-40   FIXED GOBO 10   41-43   FIXED GOBO 10   41-43   FIXED GOBO 11   44-46   FIXED GOBO 12   47-49   FIXED GOBO 13   50-52   FIXED GOBO 14   53-55   FIXED GOBO 15   59-61   FIXED GOBO 16   59-61   FIXED GOBO 16   59-61   FIXED GOBO 17   62-64   FIXED GOBO 18   65-67   FIXED GOBO 19   68-70   FIXED GOBO 19   68-70   FIXED GOBO 2 SHAKE (SPEED 1 -> 100%)   71-73   FIXED GOBO 2 SHAKE (SPEED 1 -> 100%)   71-79   FIXED GOBO 3 SHAKE (SPEED 1 -> 100%)   80-82   FIXED GOBO 5 SHAKE (SPEED 1 -> 100%)   80-82   FIXED GOBO 6 SHAKE (SPEED 1 -> 100%)   80-81   FIXED GOBO 9 SHAKE (SPEED 1 -> 100%)   80-81   FIXED GOBO 9 SHAKE (SPEED 1 -> 100%)   80-91   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   92-94   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   91-101   71-70   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   101-103   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   101-103   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   101-103   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   101-103   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   101-103   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   101-103   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   101-103   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   101-104   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-115   FIXED GOBO 1 SHAKE (SPEED 1 -> 100%)   113-				14-16	FIXED GOBO 2
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35-37 FIXED GOBO 9  38-40 FIXED GOBO 10  41-43 FIXED GOBO 11  44-46 FIXED GOBO 12  47-49 FIXED GOBO 13  50-52 FIXED GOBO 14  53-55 FIXED GOBO 15  56-58 FIXED GOBO 16  59-61 FIXED GOBO 17  62-64 FIXED GOBO 19  68-70 FIXED GOBO 19  68-70 FIXED GOBO 19  68-70 FIXED GOBO 19  71-73 FIXED GOBO 19  68-70 FIXED GOBO 3 SHAKE (SPEED 1 → 100%)  71-79 FIXED GOBO 3 SHAKE (SPEED 1 → 100%)  77-79 FIXED GOBO 5 SHAKE (SPEED 1 → 100%)  80-82 FIXED GOBO 5 SHAKE (SPEED 1 → 100%)  83-85 FIXED GOBO 5 SHAKE (SPEED 1 → 100%)  86-88 FIXED GOBO 5 SHAKE (SPEED 1 → 100%)  88-91 FIXED GOBO 7 SHAKE (SPEED 1 → 100%)  92-94 FIXED GOBO 8 SHAKE (SPEED 1 → 100%)  92-94 FIXED GOBO 10 SHAKE (SPEED 1 → 100%)  93-100 FIXED GOBO 11 SHAKE (SPEED 1 → 100%)  101-103 FIXED GOBO 11 SHAKE (SPEED 1 → 100%)  101-104 FIXED GOBO 13 SHAKE (SPEED 1 → 100%)  101-105 FIXED GOBO 13 SHAKE (SPEED 1 → 100%)  101-106 FIXED GOBO 13 SHAKE (SPEED 1 → 100%)  101-107 FIXED GOBO 14 SHAKE (SPEED 1 → 100%)  101-108 FIXED GOBO 15 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 15 SHAKE (SPEED 1 → 100%)  110-112 FIXED GOBO 16 SHAKE (SPEED 1 → 100%)  111-113 FIXED GOBO 17 SHAKE (SPEED 1 → 100%)  111-114 FIXED GOBO 18 SHAKE (SPEED 1 → 100%)  112-2124 FIXED GOBO 18 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 18 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  112-121 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)  113-115 FIXED GOBO 19 SHAKE (SPEED 1 → 100%)				29-31	FIXED GOBO 7
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14				35-37	FIXED GOBO 9
14				38-40	FIXED GOBO 10
12 14 17 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10				41-43	FIXED GOBO 11
12 14 17 18 19 19 10 10 10 10 10 10 10 10 110 110 1				44-46	FIXED GOBO 12
12 14 17 18 18 19 19 19 10 10 10 110 110 1112 112 114 115 115 115 115 115 115 115 115 115				47-49	FIXED GOBO 13
12 14 17 18 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10					
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12 14 16					
14   17   65-67   FIXED GOBO 19   68-70   FIXED GOBO 1 SHAKE (SPEED 1> 100%)   71-73   FIXED GOBO 2 SHAKE (SPEED 1> 100%)   74-76   FIXED GOBO 3 SHAKE (SPEED 1> 100%)   80-82   FIXED GOBO 4 SHAKE (SPEED 1> 100%)   83-85   FIXED GOBO 5 SHAKE (SPEED 1> 100%)   86-88   FIXED GOBO 6 SHAKE (SPEED 1> 100%)   89-91   FIXED GOBO 7 SHAKE (SPEED 1> 100%)   92-94   FIXED GOBO 9 SHAKE (SPEED 1> 100%)   95-97   FIXED GOBO 10 SHAKE (SPEED 1> 100%)   98-100   FIXED GOBO 11 SHAKE (SPEED 1> 100%)   101-103   FIXED GOBO 12 SHAKE (SPEED 1> 100%)   104-106   FIXED GOBO 13 SHAKE (SPEED 1> 100%)   107-109   FIXED GOBO 14 SHAKE (SPEED 1> 100%)   110-112   FIXED GOBO 15 SHAKE (SPEED 1> 100%)   111-112   FIXED GOBO 16 SHAKE (SPEED 1> 100%)   111-114   FIXED GOBO 17 SHAKE (SPEED 1> 100%)   111-114   FIXED GOBO 18 SHAKE (SPEED 1> 100%)   111-112   FIXED GOBO 19 SHAKE (SPEED 1> 100%)   112-124   FIXED GOBO 19 SHAKE (SPEED 1> 100%)   122-124   FIXED GOBO 19 SHAKE (SPEED 1> 100%)   125-127   WHITE   STATIC GOBO JUMPING WATER EFFECT (SPEED 100> 1%)					
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12					· · · · · · · · · · · · · · · · · · ·
77-79 FIXED GOBO 4 SHAKE (SPEED 1> 100%) 80-82 FIXED GOBO 5 SHAKE (SPEED 1> 100%) 83-85 FIXED GOBO 6 SHAKE (SPEED 1> 100%) 86-88 FIXED GOBO 7 SHAKE (SPEED 1> 100%) 89-91 FIXED GOBO 8 SHAKE (SPEED 1> 100%) 92-94 FIXED GOBO 9 SHAKE (SPEED 1> 100%) 95-97 FIXED GOBO 10 SHAKE (SPEED 1> 100%) 98-100 FIXED GOBO 11 SHAKE (SPEED 1> 100%) 101-103 FIXED GOBO 12 SHAKE (SPEED 1> 100%) 104-106 FIXED GOBO 13 SHAKE (SPEED 1> 100%) 107-109 FIXED GOBO 14 SHAKE (SPEED 1> 100%) 110-112 FIXED GOBO 15 SHAKE (SPEED 1> 100%) 1110-115 FIXED GOBO 16 SHAKE (SPEED 1> 100%) 1110-116-118 FIXED GOBO 17 SHAKE (SPEED 1> 100%) 1119-121 FIXED GOBO 18 SHAKE (SPEED 1> 100%) 122-124 FIXED GOBO 19 SHAKE (SPEED 1> 100%) 125-127 WHITE  STATIC GOBO JUMPING WATER EFFECT (SPEED 100> 1%)	12	14	17		
80-82 FIXED GOBO 5 SHAKE (SPEED 1 -> 100%) 83-85 FIXED GOBO 6 SHAKE (SPEED 1 -> 100%) 86-88 FIXED GOBO 7 SHAKE (SPEED 1 -> 100%) 89-91 FIXED GOBO 8 SHAKE (SPEED 1 -> 100%) 92-94 FIXED GOBO 9 SHAKE (SPEED 1 -> 100%) 95-97 FIXED GOBO 10 SHAKE (SPEED 1 -> 100%) 98-100 FIXED GOBO 11 SHAKE (SPEED 1 -> 100%) 101-103 FIXED GOBO 12 SHAKE (SPEED 1 -> 100%) 104-106 FIXED GOBO 13 SHAKE (SPEED 1 -> 100%) 107-109 FIXED GOBO 14 SHAKE (SPEED 1 -> 100%) 110-112 FIXED GOBO 15 SHAKE (SPEED 1 -> 100%) 113-115 FIXED GOBO 16 SHAKE (SPEED 1 -> 100%) 116-118 FIXED GOBO 17 SHAKE (SPEED 1 -> 100%) 119-121 FIXED GOBO 18 SHAKE (SPEED 1 -> 100%) 122-124 FIXED GOBO 19 SHAKE (SPEED 1 -> 100%) 125-127 WHITE  STATIC GOBO JUMPING WATER EFFECT (SPEED 100 -> 1%)					
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125-127 WHITE  128-190 STATIC GOBO JUMPING WATER EFFECT (SPEED 100 —> 1%)					
128-190 STATIC GOBO JUMPING WATER EFFECT (SPEED 100 —> 1%)					
128-190 —> 1%)				125-127	
191-192   STOP WATER EFFECT					—> 1%)
				191-192	STOP WATER EFFECT
193-255 STATIC GOBO FLOWING WATER EFFECT (SPEED 1 —> 100%)				193-255	· ·

_	_	18	000-255	FIXED GOBO WHEEL FINE
_	-	10	PRISM 1	I IALD GODO WITELE FINE
			0-10	WHITE
			11-145	PRISM INSERT AND ADJUST THE ANGLE (0 -> 360°)
			146-150	STOP
13	15	19	110 100	PRISM INSERT AND POSITIVE ROTATION (SPEED
10	10		151-200	100%> 1)
			201-205	STOP ROTATION
				PRISM INSERT AND REVERSE ROTATION (SPEED 1
			206-255	—> 100%)
			PRISM 2	
			0-10	WHITE
			11-145	PRISM INSERT AND ADJUST THE ANGLE (0 -> 360°)
			146-150	STOP
14	16	20	151 200	PRISM INSERT AND POSITIVE ROTATION (SPEED
			151-200	100%> 1)
			201-205	STOP ROTATION
			206-255	PRISM INSERT AND REVERSE ROTATION (SPEED 1
				—> 100%)
			FROST	
			0-10	WHITE
		21	11-145	FROST INSERT AND ADJUST THE ANGLE (0 —> 360°)
			146-150	STOP
15	17		151-200	FROST INSERT AND POSITIVE ROTATION (SPEED
			004 005	100% —> 1)
			201-205	STOP ROTATION
			206-255	FROST INSERT AND REVERSE ROTATION (SPEED 1 —> 100%)
16	18	22	000-255	FOCUS
-	19	23	000-255	FOCUS FINE
17	20	24	000-255	DIMMER
-	21	25	000-255	DIMMER FINE
			STROBE	,
			0-9	NO FUNCTION
			10-99	STROBE ( FROM SLOW TO FAST)
18	22	26	100-109	NO FUNCTION
			110-179	LIGHTNING STROBE
			180-189	NO FUNCTION
			190-255	RANDOM STROBE
			CONTROL	(EXECUTE AFTER 3 SECONDS)
19 23			0-10	NO FUNCTION
	23 27	11-20	PAN/TILT BLACK ACTIVATED	
		21-30	PAN/TILT BLACK DEACTIVATED	
	19   23		31-40	PAN INVERT
			41-50	TILT INVERT
			51-60	PAN/TILT INVERT OFF
			61-70	STUDIO

	71-80	POWER
	81-90	LIVE
	91-100	DIMMER SPEED Halogen
		- United States of the Control of th
	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	GOBO SYSTEM RESET
	241-255	OTHER RESET