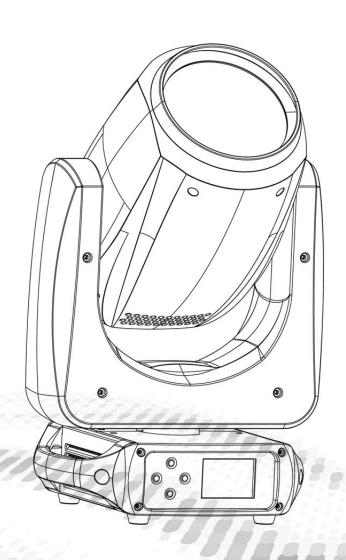


PLUTO BEAM

USER MANUAL





MODEL: SS9151SC



广州市雅江光电设备有限公司

Guangzhou Yajiang Photoelectric Equipment Ltd.

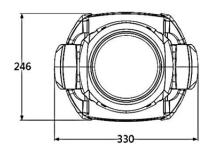
电话/ Tel: 020-86947788 邮箱/E-mail: sales @yajiang.cn 传真/Fax: 020-86943773 网址/Website: www.yajiang.cn

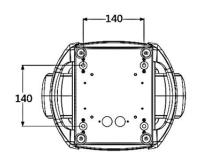


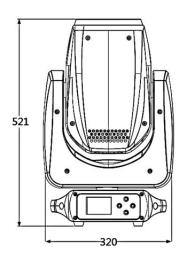
1 PRODUCT

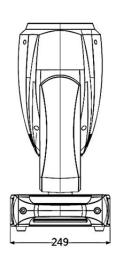
1.1 TECHNICAL SPECIFICATIONS

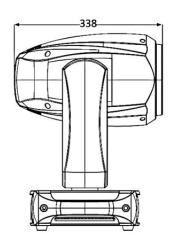
Туре	SS9151SC
LED colors	130W Cool White LED
Power	200W
Voltage Range	AC100~240V,50/60Hz
Protection	IP20
Operation Temperature	0℃~45℃
Dimensions	330x249x521mm
Weight	15kg













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).

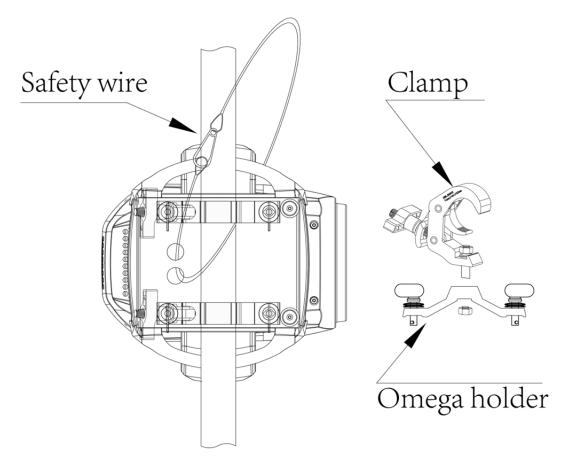


2 INSTALLATION

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



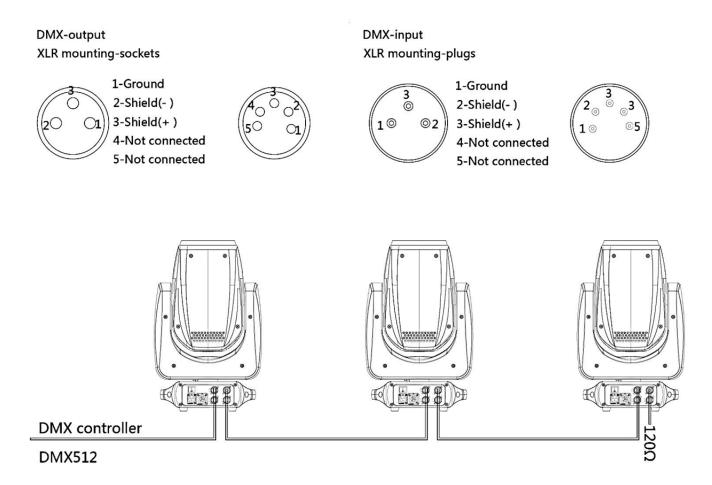


2.2 POWER CONNECTIONS

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

2.3 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 13 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.
- ullet 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.

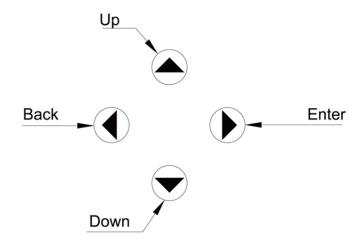




3 FUNCTIONS AND SETTINGS

3.1 DISPLAY OPERATION

- ♦ Up: Scroll 'Up' through the menu list or increase the value of the current function.
- ◆ Down: Scroll 'Down' through the menu list or decrease the value of the current function.
- ◆ Left(Back): Scroll through the main menu.
- ◆ Right(Enter): Enter the currently selected menu or confirm the current function value.



3.2 Menu Map

ADDRESS	001 - 512		DMX address setting
	BASIC		Use the menu to select desired channel
PERSON	STANDARD (Default)	mode
PERSON	EXTEND		
	SY		
	DMX512 (Defa	ault)	Select Signal
RUNMODE	AUTO		Default: DMX512
RUNWODE	CUSTOM1		CUSTOM1-2 Set up get into EDIT MENU
	CUSTOM2		edit
	PAN INVERT	NORMAL(Default)	PAN moving direction selection
	PANINVERI	INVERT	
	TILT	NORMAL(Default)	TILT moving direction selection
	INVERT	INVERT	
OPTION		STUDIO	Fan mode low speed
OPTION	PERFORM	POWER	Fast rotation of fan, all power
		LIVE (Default)	Automatic rotation of fan
	BLACKOUT	OFF(Default)	Select OFF blackout without delay
	BLACKOUT	ON	Select ON Blackout delay 3s
	DIMMER	DIM4(Default)	Dimming curves DIM1 (fast) to DIM4



		DIM3			(slow)
		DIM2 DIM1			
		OFF			
		1200Hz (Default	:)		Sets the PWM frequency
		2000Hz			
		2400Hz			
	LED PWM	4000Hz			
		6000Hz			
		25000Hz			
	DMX	SAVE (Default)		Hold after loss of DMX signal	
	ERROR	BLACK			Blackout after loss of DMX signal
	DISPLAY	OFF(Default)			Display reverse off
	INVERT	ON			Display reverse on
		On			Display backlight always on
	DISPLAY	30s			Display light 30s
	TIME	1min(Default)			Display light 1min
		2min		Display light 2min	
	DISPLAY	OFF			Locks display (passcode is <up>,</up>
	LOCK	ON(Default)		<down>,<up>, <down>, <enter>)</enter></down></up></down>	
		NO			Upload data
	LOAD PARA	YES			Not upload data
		RECOVERY	****	Restore default factory settings.	
		CLEAN EDIT1	****		Clean customer self-editing scene 1
	OFTTINIO	CLEAN EDIT2	****		Clean customer self-editing scene 2
	SETTING		YES		Hide wireless mode WDMX reset and
		WDMX HIDE			signal hide and the default is wired mode
			NO		only
	PT	OFF			XY Encoder switch.
	ENCODER	ON		OFF is close; ON is open.	
	WDMX	NO			Do not clear the receiver's message.
	RESET	YES		Clear the receiver's message	
		ONLY XLRDMX		ONLY XLR is wire only	
		XLRDMX FIRST	-	XLR FIRST is wire first	
	SIGNAL	ONLY WDMX		ONLY WDMX is wireless only	
		WDMX FIRST			WDMX FIRS is wireless first
		WDMX TO XLR	DMX	WDMX TO DMX is wireless to wired	
			PAN	0-255	Edit the custom programs1-30
	EDIT (c	OTED 4.44	TILT	0-255	Select play 【EDIT 1】 in RUNMOEDE
EDIT	EDIT 1-2	STEP 1-14	PT SPEED	0-255	CUSTOM 1; Select play 【EDIT 2】 in
			COLOR	0-255	RUNMOEDE CUSTOM 2

	505151					
			FIXE	D GOBO	0-255	
			PRIS	SM1	0-255	
			PRIS	SM2	0-255	
			FOC	US	0-255	
			RAIN	IBOW.D	0-255	
			RAIN	IBOW.R	0-255	
			DIMI	MER	0-255	
			STR	OBE	0-25	
			TIME	<u> </u>	0-255	
			USE		YES/NO	Select YES to run the steps user need.
	Auto Test	Auto Test	YES	/NO	•	Auto Test channel
		PAN	0-255			Manual control channel
		TILT	0-25	5		
		PT SPEED	0-25	5		
		COLOR	0-255			
		FIXED GOBO	0-255			
	CHANNEL	PRISM1	0-25	5		
	CHANNEL	PRISM2	0-25	5		
		FOCUS	0-25	5		
MENUAL		RAINBOW.D	0-25	5		
WILIYOTAL		RAINBOW.R	0-25	5		
		DIMMER	0-25	5		
		STROBE	0-25			
	DEBUG	NO				Factory testing mode. All stepper motors
	HIDE	YES				are not controlled by signal, It only works
						again after the reset.
		ALL RESET			Select Yes/No to carry out all reset hide	
	RESET	PT RESET				Select Yes/No to carry out P/T reset
		COLOR SYS				COLOR reset
		OTHER	Zoom/ Focus/ Prism reset			
	FIXTURE HO					Hours of fixture use
INFO	LED USE HO		LED use time			
	TEMPERATU	JRE	LED temperature			
	VERSION	1		1		Software versions
	RDM	UID		0x388Axxxxxxxx		Check fixture's ID
			LABEL PLUTO BI		EAM	Check fixture's LABEL
		MEMORY IC				Memory IC
	SYSTEM	ANGLESENSO	R			Angle Sensor
	ERROR	PAN SENSOR				PAN SENSOR
		PAN ENCODER	₹			PAN ENCODER
		PAN DRIVE IC				PAN DRIVE IC

-				
		TILT SENSOR		TILT SENSOR
		TILT ENCODER		TILT ENCODER
		TILT DRIVEIC		TILT DRIVEIC
		TEMPERATURE		TEMPERATURE
		COLOR RESET		COLOR RESET
		FGOBO RESET		FGOBO RESET
		PRISM1 RESET		PRISM1 RESET
		PRISM2 RESET		PRISM2 RESET
		FOCUS RESET		FOCUS RESET
		RAINBOW RESET		RAINBOW RESET
SERVICE ****		PAN	±127	Pan position fine adjustment
		TILT	±127	Tilt position fine adjustment
		COLOR	±127	Color position fine adjustment
		FIXED GOBO	±127	Fixed Gobo position fine adjustment
		PRISM1	±127	Prism 1 position fine adjustment
	***	PRISM2	±127	Prism 2 position fine adjustment
		FOCUS	±127	Focus position fine adjustment
		RAINBOW	±127	RAINBOW position fine adjustment
		LED DIMMER	128-255	
		Rest Fixture Time		Rest fixture time
		Rest LED Time		Rest LED time



4 USING A DMX512 CONTROLLER

4.1 DMX CONTROL

BASIC (13CH)	STANDARD (15CH)	Extend (18CH)	Value	Function
CH.1	CH.1	CH.1	000-255	PAN 0-540°
-	CH.2	CH.2	000-255	PAN FINE
CH.2	CH.3	CH.3	000-255	TILT 0-270°
-	CH.4	CH.4	000-255	TILT FINE
CH.3	CH.5	CH.5	000-255	PT Speed
			COLOUR V	VHELL9+1
			000-007	WHITE
			008-013	COLOR1
			014-019	COLOR2
			020-025	COLOR3
			026-031	COLOR4
			032-037	COLOR5
CH.4	CH.6	CH.6	038-043	COLOR6
			044-049	COLOR7
			050-055	COLOR8
			056-063	COLOR9
			064-191	COLOR WHELL10-360°
			192-222	COLOR WHELL1 RAINBOW EFFECT(SPEED 100%→1)
			223-224	STOP
			225-255	COLOR WHELL1 RAINBOW EFFECT(SPEED 1→100%)
-	•	CH.7	000-255	000-255
			FIXED GO	BO WHEEL14+1
			0-10	WHITE
			11-17	FIXED GOBO 1
			18-24	FIXED GOBO 2
			25-31	FIXED GOBO 3
			32-38	FIXED GOBO 4
			39-45	FIXED GOBO 5
CH.5	CH.7	CH.7 CH.8	46-52	FIXED GOBO 6
			53-59	FIXED GOBO 7
			60-66	FIXED GOBO 8
			67-73	FIXED GOBO 9
			74-80	FIXED GOBO 10
			81-87	FIXED GOBO 11
			88-94	FIXED GOBO 12
			85-102	FIXED GOBO 13



	339131			
			103-110	FIXED GOBO 14
			111-118	FIXED GOBO 1 SHAKE (SPEED 1> 100%)
			119-126	FIXED GOBO 2 SHAKE (SPEED 1> 100%)
			127-134	FIXED GOBO 3 SHAKE (SPEED 1> 100%)
			135-142	FIXED GOBO 4 SHAKE (SPEED 1 —> 100%)
			143-150	FIXED GOBO 5 SHAKE (SPEED 1 —> 100%)
			151-158	FIXED GOBO 6 SHAKE (SPEED 1 —> 100%)
			159-166	FIXED GOBO 7 SHAKE (SPEED 1 —> 100%)
			167-174	FIXED GOBO 8 SHAKE (SPEED 1 —> 100%)
			175-182	FIXED GOBO 9 SHAKE (SPEED 1> 100%)
			183-190	FIXED GOBO 10 SHAKE (SPEED 1> 100%)
			191-198	FIXED GOBO 11 SHAKE (SPEED 1> 100%)
			199-206	FIXED GOBO 12 SHAKE (SPEED 1> 100%)
			207-214	FIXED GOBO 13 SHAKE (SPEED 1> 100%)
			215-222	FIXED GOBO 14 SHAKE (SPEED 1> 100%)
			223-230	WHITE
			231-238	STATIC GOBO POSITIVE WATER EFFECT (SPEED 100 -> 1%)
			239-246	STOP WATER EFFECT
			247-255	STATIC GOBO REVERSE WATER EFFECT (SPEED 1> 100%)
CH.6	CH.8	CH.9	0-255	RAINBOW Insert effect wheel
			RAINBOW	DISC ROTATION
			0-10	Rotation STOP
CH.7	CH.9	CH.10	11-127	RAINBOW Insertion CW Rotate Slow to Fast
			128-138	Rotation STOP
			139-255	RAINBOW Insertion CCW Rotate Fast to Slow
			PRISM1	
			0-10	WHITE
			11-145	PRISM INSERT AND ADJUST THE ANGLE (0 -> 360°)
CH.8	CH.10	CH.11	146-150	STOP
			151-200	PRISM INSERT AND POSITIVE ROTATION (SPEED 100%> 1)
			201-205	STOP
			206-255	PRISM INSERT AND REVERSE ROTATION (SPEED 1 —> 100%)
			PRISM2	
			0-10	WHITE
			11-145	PRISM INSERT AND ADJUST THE ANGLE (0 —> 360°)
CH.9	CH.11	CH.12	146-150	STOP
			151-200	PRISM INSERT AND POSITIVE ROTATION (SPEED 100%> 1)
			201-205	STOP
			206-255	PRISM INSERT AND REVERSE ROTATION (SPEED 1 —> 100%)
CH.10	CH.12	CH.13	0-255	FOCUS
-	-	CH.14	0-255	FOCUS FINE



CH.11 CH.13 CH.16 0-255 DIMMER CH.16 0-255 DIMMER FINE STROBE 0-9 NO FUNCTION 10-99 STROBE (FROM SLOW TO FAST) 100-109 NO FUNCTION 110-179 LIGHTNING STROBE 180-189 NO FUNCTION 190-255 RANDOM SROBE CONTROL(EXECUTE AFTER 3 SECONDS) 000-010 NO FUNCTION 011-020 PAN/TILT BLACK ACTIVATED 021-030 PAN/TILT BLACK DEACTIVATED 031-040 PAN INVERT 041-050 TILT INVERT 051-060 PAN/TILT INVERT OFF 061-070 STUDIO 071-080 POWER 081-090 LIVE 091-100 DIM4 101-110 DIM3 111-120 DIM2 121-130 DIM1 131-140 DIM0 141-150 1200Hz 151-160 2000Hz
CH.12 CH.14 CH.17 CH.17 CH.17 CH.17 CH.18
CH.12 CH.14 CH.17 CH.17 CH.17 CH.17 CH.17 CH.17 CH.18 CH.18 CH
CH.12 CH.14 CH.17 10-99
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180-189 NO FUNCTION 190-255 RANDOM SROBE
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CONTROL(EXECUTE AFTER 3 SECONDS) 000-010 NO FUNCTION 011-020 PAN/TILT BLACK ACTIVATED 021-030 PAN/TILT BLACK DEACTIVATED 031-040 PAN INVERT 041-050 TILT INVERT 051-060 PAN/TILT INVERT OFF 061-070 STUDIO 071-080 POWER 081-090 LIVE 091-100 DIM4 101-110 DIM3 111-120 DIM2 121-130 DIM1 131-140 DIM0 141-150 1200Hz
CH.13 CH.15 O00-010 NO FUNCTION 011-020 PAN/TILT BLACK ACTIVATED 021-030 PAN/TILT BLACK DEACTIVATED 031-040 PAN INVERT 041-050 TILT INVERT 051-060 PAN/TILT INVERT OFF 061-070 STUDIO 071-080 POWER 081-090 LIVE 091-100 DIM4 101-110 DIM3 111-120 DIM2 121-130 DIM1 131-140 DIM0 141-150 1200Hz
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CH.13 CH.15 CH.15 CH.18 CH.18 CH.18 CH.19 DIM2 CH.19 DIM0 DIM1 Tight Dim0 DIM1 Tight Dim0 DIM1 Tight Dim0 DIM1 Tight Dim0 DIM0 Tight Dim0 DIM0 Tight Dim0 DIM0 Tight Dim0 DIM0 Tight Dim0 T
CH.13 CH.15 CH.15 CH.16 CH.17 CH.18 CH
CH.13 CH.15 CH.18 CH.18 POWER 071-080 POWER 081-090 LIVE 091-100 DIM4 101-110 DIM3 111-120 DIM2 121-130 DIM1 131-140 DIM0 141-150 1200Hz 151-160 2000Hz
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CH.13 CH.15 CH.18 CH
CH.13 CH.15 CH.18 CH.18
CH.13 CH.15 CH.18
CH.13 CH.15 CH.18 121-130 DIM1 131-140 DIM0 141-150 1200Hz 151-160 2000Hz
121-130 DIM1 131-140 DIM0 141-150 1200Hz 151-160 2000Hz
141-150 1200Hz 151-160 2000Hz
151-160 2000Hz
161-170 2400Hz
171-180 4000Hz
181-190 6000Hz
191-200 25000Hz
201-210 ALL RESET
211-220 XY RESET
221-230 COLOR GOBO SYSTEM RESET
231-240 FOCUS RESET
241-255 PRISM RESET



SY		
(16CH)	VALUE	FUCTION
	COLOUR WHE	LL9+1
	000-007	WHITE
	008-013	COLOR1
	014-019	COLOR2
	020-025	COLOR3
	026-031	COLOR4
	032-037	COLOR5
CH.1	038-043	COLOR6
	044-049	COLOR7
	050-055	COLOR8
	056-063	COLOR9
	064-191	COLOR WHELL10-360°
	192-222	COLOR WHELL1 RAINBOW EFFECT(SPEED 100%→1)
	223-224	STOP
	225-255	COLOR WHELL1 RAINBOW EFFECT(SPEED 1→100%)
	STROBE	
	0-3	NO LIGHT
	4-103	STROBE (FROM SLOW TO FAST)
CH.2	104-107	NO FUNCTION (100% light)
011.2	108-207	LIGHTNING STROBE
	208-212	NO FUNCTION (100% light)
	213-251	RANDOM SROBE
	252-255	NO FUNCTION (100% light)
CH.3	0-255	DIMMER
	FIXED GOBO V	VHEEL14+1
	0-3	NO FUNCTION (100% light)
	4-7	FIXED GOBO 1
	8-11	FIXED GOBO 2
	12-15	FIXED GOBO 3
	16-19	FIXED GOBO 4
	20-23	FIXED GOBO 5
CH.4	24-27	FIXED GOBO 6
	28-31	FIXED GOBO 7
	32-35	FIXED GOBO 8
	36-39	FIXED GOBO 9
	40-43	FIXED GOBO 10
	44-47	FIXED GOBO 11
	48-51	FIXED GOBO 12
	52-55	FIXED GOBO 13



	99191	
	56-59	FIXED GOBO 14
	60-72	NO FUNCTION
	72-113	STATIC GOBO POSITIVE WATER EFFECT (SPEED 100> 1%)
	114-117	STOP WATER EFFECT
	118-159	STATIC GOBO REVERSE WATER EFFECT (SPEED 1> 100%)
	160-166	FIXED GOBO 2 SHAKE (SPEED 1 —> 100%)
	167-172	FIXED GOBO 3 SHAKE (SPEED 1 —> 100%)
	173-179	FIXED GOBO 4 SHAKE (SPEED 1 —> 100%)
	180-185	FIXED GOBO 5 SHAKE (SPEED 1 —> 100%)
	186-191	FIXED GOBO 6 SHAKE (SPEED 1 —> 100%)
	192-198	FIXED GOBO 7 SHAKE (SPEED 1 —> 100%)
	199-204	FIXED GOBO 8 SHAKE (SPEED 1 —> 100%)
	205-211	FIXED GOBO 9 SHAKE (SPEED 1> 101%)
	212-217	FIXED GOBO 10 SHAKE (SPEED 1> 101%)
	218-223	FIXED GOBO 11 SHAKE (SPEED 1> 101%)
	224-230	FIXED GOBO 12 SHAKE (SPEED 1> 101%)
	231-236	FIXED GOBO 13 SHAKE (SPEED 1 -> 101%)
	237-243	FIXED GOBO 14 SHAKE (SPEED 1 -> 101%)
	244-255	NO FUNCTION
	PRISM INSER	TION (16 Prism)
CH.5	0-127	WHITE
	128-255	16 Facet Prism INSERTION
	PRISM ROTA	TION (16 Prism)
	0-127	PRISM ADJUST THE ANGLE (0 —> 360°)
CH.6	128-190	PRISM POSITIVE ROTATION (SPEED 100% —> 1)
	191-192	STOP
	193-255	PRISM REVERSE ROTATION (SPEED 1 —> 100%)
	RAINBOW EF	FECT WHEEL
	0-10	WHITE
	11-145	ANIMATION INSERT AND ADJUST THE ANGLE (0 -> 360°)
CH.7	146-150	STOP
	151-200	ANIMATION INSERT AND POSITIVE ROTATION (SPEED 100%> 1)
	201-205	STOP
	206-255	ANIMATION INSERT AND REVERSE ROTATION (SPEED 1 —> 100%)
	PRISM EFFEC	CT (Linear Prism)
	0-10	WHITE
0110	11-127	PRISM INSERTION
CH.8	128-191	ANIMATION INSERT AND LEFT ROTATION (SPEED 100%> 1)
	192	STOP
	193-255	ANIMATION INSERT AND RIGHT ROTATION (SPEED 1> 100%)
CH.9	0-255	FOCUS
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CH.10	0-255	PAN
CH.10	0-255	PAN FINE
CH.12	0-255	TILT
CH.13	0-255	TILT FINE
-	FUNCTION	NO FUNCTION
-	000-010	NO FUNCTION
-	011-020	PAN/TILT BLACK ACTIVATED
-	021-030	PAN/TILT BLACK DEACTIVATED
-	031-040	PAN INVERT
_	041-050	TILT INVERT
	051-060	PAN/TILT INVERT OFF
-	061-070	STUDIO
-	071-080	POWER
	081-090	LIVE
CH.14	091-100	DIM4
	101-110	DIM3
<u>_</u>	111-120	DIM2
<u>_</u>	121-130	DIM1
<u>_</u>	131-140	DIM0
	141-150	1200Hz
	151-160	2000Hz
	161-170	2400Hz
	171-180	4000Hz
	181-190	6000Hz
	191-200	25000Hz
	201-255	NO FUNCTION
	RESRT	
	000-025	UNUSED RANGE
CH.15	26-76	EFFECTS RESET
	77-127	PAN/TILT RESET
	128-255	COMPLETE RESET
	LAMP CONTR	OL
CUAC	0-25	UNUSED RANGE
CH.16	26-100	LAMP OFF
	101-255	LAMP ON