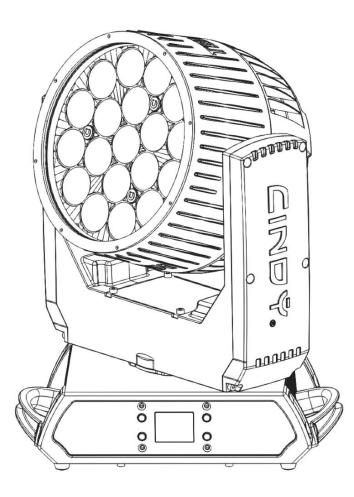


TOUGH 1920 LED WASH MANUAL



广州星迪智能光电科技有限公司 CINDY PROFESSIONAL LIGHTING CO., LTD





CONTENTS

1. SAFETY WARNING	1
2. SPECIFICATION	3
3. INSTALLATION	4
4. MENU MAP	
5. ERROR CODE	13
6. DMX CHARTS	14
7. MAINTENANCE	34

Every fixture has been thoroughly tested and has been shipped in perfect operating condition. All users shall strictly comply with the safety notes and operation instructions set forth in this user manual. Any damage caused by misuse is not covered by the Cindy's guarantee. Distributor is not responsible for the failure and problems caused by neglect of the user manual. The relevant information in this user manual is for reference only. All lighting products are subject to the real product. If there is any change without prior notice, the company will reserve the right of final interpretation.

For the latest software, hardware, documents and other information, please visit: www.cindylight.com or follow CINDY_GROUP via Wechat.

<u> CINDデ®</u> 1. SAFETY WARNING

- 1. **CAUTION!** The optics in this fixture may concentrate sunlight on the internal of the fixture, causing damage or fire. **DO NOT** expose the fixture or front lens to the light beams from direct sunlight at any time.
- Carefully unpack the product immediately and check if all the parts are in the package and in good condition, in case the fixture is damaged by transportation.
- 3. This fixture is an extremely sophisticated piece of electronic equipment. Please make sure every person involved with installation and maintenance of this fixture has to be qualified and should follow the instructions in this manual. **Do not** attempt any repairs yourself.
- The maximum ambient temperature is 45°C, and minimum ambient temperature is -5°C. Please **DO NOT** operate this fixture at higher or lower temperatures.
- 5. The fixture must be mount in a location with adequate ventilation.
- 6. Make sure that the available voltage is not higher than stated on the spec sticker, and with correct protection for over-load and electric leakage .
- 7. This fixture must be mount at least 0.5m from adjacent surface.
- 8. Always connect the fixture to a grounded circuit to avoid the risk of electrocution.
- 9. For overhead installation, this fixture must be always secured with a safety cable that can bear at least 10 times the weight of the fixture.
- 10. Make sure this fixture is mount away from any flammable material. The minimum distance to any flammable material is 0.5m.
- 11. Make sure the fixture uses the correct fuse.
- 12. Make sure there is no flammable material, water, metal or other things entering the fixture to avoid file or electrocution. Disconnect the power

immediately if it happens.

- 13. Never touch the fixture during its operation as the housing becomes very hot and there are a lot of moving parts.
- 14. Minimum distance to lighted objects is 10 meters.
- 15. To maintain optimum performance and minimize wear, clean this fixture frequently. Usage and environment are contributing factors in determining the cleaning frequency.
- 16. If the housing, optics or other parts are damaged, stop using the fixture immediately and contact trained technicians for repairs. **DO NOT** replace parts that are not from the original manufacturers.
- 17. When power linking other fixtures, make sure the power linking is done according to the specific standards and quantities.
- 18. Lamp product instructions (specific for product in which the light source is lamp):
- 19. **DO NOT** install lamp that is not the same as the original part to avoid danger or damage to the fixture.
- 20. NEVER use damaged lamp
- 21. Replace the lamp in time when the lamp is damaged, or exceed lifetime.
- 22. **CAUTION!** Never power off the fixture if the lamp is on, or it will damage the lamp. Set the lamp off for 5 minutes before cutting off the power. It's not covered by warranty if the lamp is damaged because of the above reason.

<u> CIND予</u>® 2. SPECIFICATION

- 1. Input Voltage: AC 100V-240V 50/60Hz
- 2. Power: 412W
- 3. Light Source: 19×20W RGBW LED
- 4. Channel Signal: DMX512 15/17/22/33/54/56/33(MS)/54(MS)
- 5. Colour: RGBW color mixing system
- 6. Strobe: 0~25Hz selectable multiple strobe effects with different speeds
- 7. Dimmer: 0~100% electronics
- 8. Zoom: Motorized
- 9. Pan range: 540° 8bit/16bit
- 10. Tilt range: 260° 8bit/16bit

3. INSTALLATION

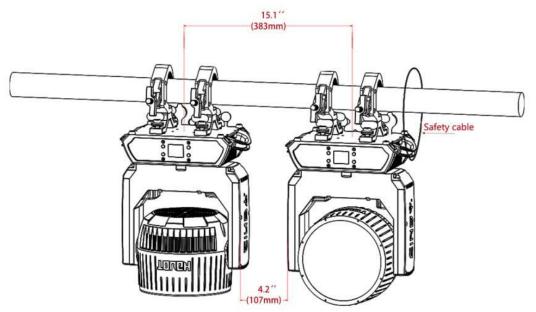
The applicable temperature for the device is between -5°C to 45°C. Any operation outside of this temperature range may cause the fixture not functioning properly or even damage to the light source and other components. Installation operation, or servicing must be carried out by qualified technicians. To maintain optimum performance and minimize wear, make sure the fixture and all safety related factors is checked in proper intervals.

3.1 Mounting

1、Before mounting this fixture, make sure the rigging point, all safety cables and clamps are in good conditions, and can bear at least 10 times the weight of the fixture plus whatever accessory attached.

2、Insert the quick-lock fasteners of the clamp into the respective holes on the bottom of the fixture.Tighten the quick-lock fasteners fully clockwise.

3、Pull the safety cable through the handle of the base and over the trussing system or another suitable rigging point. Insert the end into the carabiner and tighten the safety screw.



4. Make sure the pan and tilt of the fixture is unlocked, and no flammable material within 0.5m from the fixture.

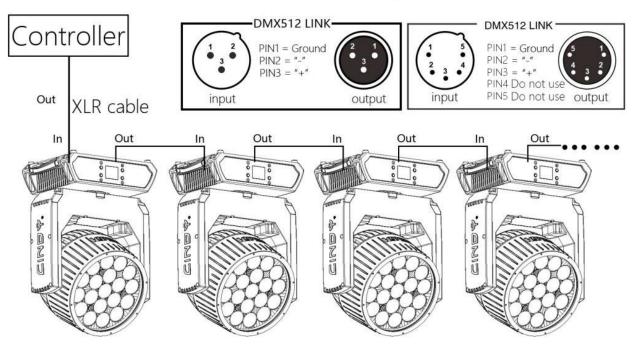
3.2 DMX-512 CONTROL CONNECTION

1、XLR CONNECTORS

Please link this product to a DMX controller using a 3-pin DMX connection. Please insert the male connector of the XLR cable into the signal output port of the controller, and insert the female connector of the XLR cable on the rear panel of this fixture. Multiple fixtures can be connected in series as the below picture shown.

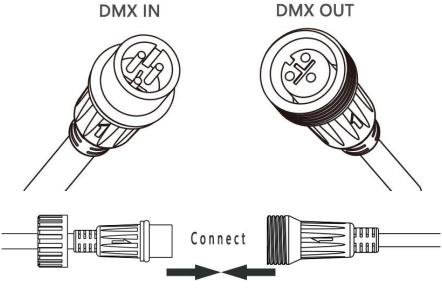
Link to a controller

XLR cable pin connection

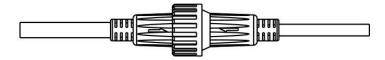


2、DIRECT CABLE CONNECTIONS

Please connect cables as picture shown below to ensure proper connections and ideal waterproof effects.



Tighten the cover clockwise



ATTENTION:

(1) Over long runs can be necessary to insert a DMX level matching amplifier.

(2) The screened parts of the cable (sleeve) must never be connected to the system's earth, as this would cause faulty fixture and controller operation.

(3) Unused cable ends must be protected by covers offered by the factory.

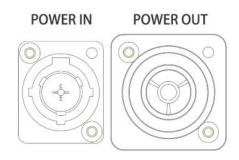
3.3 POWER AND WIRING

Make sure that the available voltage is not higher than stated on the spec sticker, and with correct protection for over-load and electric leakage. Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.

Fixtures can shipped with either AC plug version or direct cables version based

on different applications.

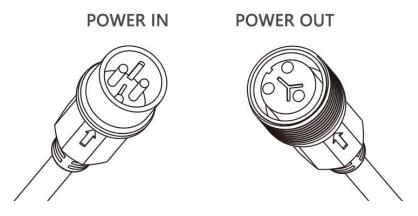
1、AC PLUG



2、DIRECT CABLIES

Make sure the sealing gasket is present for safety reasons.

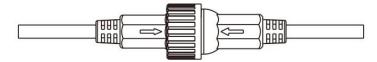
Unused cable ends must be protected by covers offered by the factory.



Please connect cables as picture shown below to ensure proper connections and ideal waterproof effects.



Tighten the cover clockwise



4. MENU MAP

Main Menu	Sub	Menu		Menu explanation
Address	Address Setting	001	-512	Setting DMX address
	DMX	22	СН	Select DMX mode(56,54,33,22,17,15)
	Auto Test			auto test
		Pan	000-255	
		Tilt	000-255	
		Dimmer	000-255	
		Shutter	000-255	
		Red1	000-255	
		Green1	000-255	
		Bule1	000-255	
	Manual test	White1	000-255	
		Red2	000-255	
RUN MODE		Green2	000-255	
		Bule2	000-255	
		White2	000-255	
		Red3	000-255	
		Green3	000-255	
		Bule3	000-255	
		White3	000-255	
		Red4	000-255	
		Green4	000-255	
		Bule4	000-255	
		White4	000-255	
		Red5	000-255	

Main Menu	Sub	Menu		Menu explanation
		Green5	000-255	
		Bule5	000-255	
RUN MODE		White5	000-255	
		Zoom	000-255	
	Pan Reverse	0	FF	
	Fair Neverse	С	N	
		0	FF	
	Tilt Reverse	С	N	
		54	40	
	Pan Angle	30	60	
		18	80	
		20	60	
		23	30	
	Tilt Angle	18	80	
Setup		g	0	
		Αι	uto	
	Fans	F	ull	
		E	00	
	Diaplay	0	FF	
	Display	С	N	
	Care on Davi	0	FF	
	Screen Rev	С	N	
		Lin	ear	
	Dimmer Curve	Squ	uare	
		I S	qua	

Main Menu	Sub	Menu		Menu explanation
		S C	urve	
		Smo	ooth	
	Dimmer Speed	Fa	ast	
		600)Hz	
		120	0Hz	
	DW/M Option	200	0Hz	
	PWM Option	400	0Hz	
		600	0Hz	
		1500)0Hz	
	LED R POWER	50-	100	
	LED G POWER	50-	100	
	LED B POWER	50-	100	
Setup	LED W POWER	50-	100	
		С	n	calibrated white mode on
		Off		calibrated white mode off
	White Mode		RED	calibrated white red setting
		Custom	GREEN	calibrated white green setting
		Custom	BLUE	calibrated white blue setting
			WHITE	calibrated white white setting
		С	n	color calibration on (default)
		С	off	color calibration off
	Color calibration		RED	color calibration red setting
		Custom	GREEN	color calibration green setting
			BLUE	color calibration blue setting
	USB Update	NO/	YES	

Main Menu	Sub	Menu		Menu explanation
		Par	n/Tilt	reset pan/tilt
	Reset Function	Zo	om	reset zoom
Setup		A	All	reset all
	Factory Set			reload to factory default
	Ver	V	/1	Fixture software version
	Running Mode	DI	МХ	Current running mode
	DMX Address	0	01	Current DMX address
	Temperature	02	25	LED temperature
Sys Info	Fixture Time	00	000	Fixture used time
Sys IIIO	UID	21A465	5400000	RDM UID
-	Head Fan1	00	000	
	Head Fan2	00	000	
	Base Fan1	00	000	
	Base Fan2	00000		
	0			Hold menu button to enter
	2323		-	Zero adjust
		PAN	000-255	pan zero adjust
		TILT	000-255	tilt zero adjust
		ZOOM	000-255	zoom zero adjust
Password		RDM4	000-255	Set RDM 4
		RDM5	000-255	Set RDM 5
		RDM6	000-255	Set RDM 6
	2322			White Balance adjust
		RED	000-255	
		GREEN	000-255	

Main Menu	Sub	Menu		Menu explanation
Password		BLUE	000-255	

<u>CIND マ® 5. ERROR CODE</u>

Error code	Explanation						
R-OPEN	Thermistor open circuit error						
R-SHORT	Thermistor short circuit error						
LED_HOT	LED is too hot						
Fan1	head fan 1 error						
Fan2	head fan 2 error						
Fan3	head fan 3 error						

6. DMX CHARTS

			Mode/	Channel				Channel		F ormation
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
1	1	1	1	1	1	1	1	Pan	0-255	0-540
2	2	2	2	2	2	2	2	Pan	0-255	16bit
								16bit		adjustable
3	3	3	3	3	3	3	3	Tilt	0-255	0-270
4	4	4	4	4	4	4	4	Tilt 16bit	0-255	16bit
	-	-	-	-	-		- T		0 200	adjustable
_			F		F	F		Pan/Tilt	0.055	fact to alow
5	5	5	5	5	5	5	5	speed	0-255	fast to slow
6	6	6	6	6	6	6	6	Dimmer	0-255	0-100%
								1		
7	7		7		7	7		Dimmer 1 16bit	0-255	0-100%
									0-19	off
									20-24	on
									25-64	strobe 1,
									20-04	fast to slow
8	8	7	8	7	8	8	7	Strobe	65-69	on
		,	0	,	0	0		Oliobe		strobe 2
									70.04	(fast on,
									70-84	slow off),
										fast to slow
									85-89	on



			Mode/0	Channel				Channel	DMX	Function		
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DIVIX	Function		
									90-10 4	strobe 3 (slow on, fast off), fast to slow		
									105-1 09	on		
									110-1 24	strobe 4 (random), fast to slow		
									125-1 29	on		
8	8	7	8	7	8	8	7	Strobe	130-1 44	strobe 5 (random fast on, slow off), fast to slow		
											145-1 49	on
									150-1 64	strobe 6 (random slow on, fast off), fast to slow		
									165-1 69	on		



			Mode/(Channel				Channel	DMX	Function
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DIVIX	T difetion
										strobe 7
									170-1	(pulse
									84	strobe),
										fast to slow
									185-1	on
									89	
										strobe 8
									190-2	(random
									04	pulse
										strobe),
										fast to slow
8	8	7	8	7	8	8	7	Strobe	205-2	on
									09	
									210-2	strobe 9
						24	24	(fade), fast		
										to slow
									225-2	on
								-	29	
										strobe 10
									230-2	(pulse
									44	strobe),
										fast to slow
									245-2	on
									55	

				Channel	DMX	Function				
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DIVIA	FUNCTION
			9	8	9			R(C) all	0-255	0-100%
			10					R(C) all 16bit	0-255	0-100%
			11	9	10			G(M) all	0-255	0-100%
			12					G(M) all 16bit	0-255	0-100%
			13	10	11			B(Y) all	0-255	0-100%
			14					B(Y) all 16bit	0-255	0-100%
			15	11	12			W all	0-255	0-100%
			16					W all 16bit	0-255	0-100%
9	9	8				15	14	R(C)1	0-255	0-100%
10	10					16		R(C)1 16bit	0-255	0-100%
11	11	9				17	15	G(M)1	0-255	0-100%
12	12					18		G(M)1 16bit	0-255	0-100%
13	13	10				19	16	W)1	0-255	0-100%
14	14					20		W)1 16bit	0-255	0-100%
15	15	11				21	17	B(Y)1	0-255	0-100%
16	16					22		B(Y)1 16bit	0-255	0-100%

					フート®					
			Channel		F or the					
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
17	17	12				23	18	R(C)2	0-255	0-100%
18	18					24		R(C)2 16bit	0-255	0-100%
19	19	13				25	19	G(M)2	0-255	0-100%
20	20					26		G(M)2 16bit	0-255	0-100%
21	21	14				27	20	B(Y)2	0-255	0-100%
22	22					28		B(Y)2 16bit	0-255	0-100%
23	23	15				29	21	W)2	0-255	0-100%
24	24					30		W)2 16bit	0-255	0-100%
25	25	16				31	22	R(C)3	0-255	0-100%
26	26					32		R(C)3 16bit	0-255	0-100%
27	27	17				33	23	G(M)3	0-255	0-100%
28	28					34		G(M)3 16bit	0-255	0-100%
29	29	18				35	24	B(Y)3	0-255	0-100%
30	30					36		B(Y)3 16bit	0-255	0-100%
31	31	19				37	25	W)3	0-255	0-100%
32	32					38		W)3 16bit	0-255	0-100%
33	33	20				39	26	R(C)4	0-255	0-100%

			Mode/0	Channel				Channel	DMX	Function
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DIVIA	FUNCTION
34	34					40		R(C)4 16bit	0-255	0-100%
35	35	21				41	27	G(M)4	0-255	0-100%
36	36					42		G(M)4 16bit	0-255	0-100%
37	37	22				43	28	B(Y)4	0-255	0-100%
38	38					44		B(Y)4 16bit	0-255	0-100%
39	39	23				45	29	W4	0-255	0-100%
40	40					46		W4 16bit	0-255	0-100%
41	41	24				47	30	R(C)5	0-255	0-100%
42	42					48		R(C)5 16bit	0-255	0-100%
43	43	25				49	31	G(M)5	0-255	0-100%
44	44					50		G(M)5 16bit	0-255	0-100%
45	45	26				51	32	B(Y)5	0-255	0-100%
46	46					52		B(Y)5 16bit	0-255	0-100%
47	47	27				53	33	W5	0-255	0-100%
48	48					54		W5 16bit	0-255	0-100%
									0-4	no function
40	40	00	47	10	10	0		Oala -	5-9	color 1
49	49	28	17	12	13	9	8	Color	10-14	color 2
									15-19	color 3

			Mode/	Channel				Channel		
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
									20-24	color 4
									25-29	color 5
									30-34	color 6
									35-39	color 7
									40-44	color 8
									45-49	color 9
									50-54	color 10
									55-59	color 11
									60-64	color 12
									65-69	color 13
									70-74	color 14
49	49	28	17	12	13	9	8	Color	75-79	color 15
									80-84	color 16
									85-89	color 17
									90-94	color 18
									95-99	color 19
									100-1	color 20
									04	
									105-1	color 21
									09	
									110-1	color 22
									14	
									115-1	color 23
									19	



			Mode/0	Channel				Channel	DMX	Function
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DIVIX	Function
									120-1 24	color 24
									125-1	
									29	color 25
									130-1	
									34	color 26
									135-1	a a la r 07
									39	color 27
									140-1	color 28
									44	
									145-1	color 29
49	49	28	17	12	13	9	8	Color	49	
									150-1	color 30
									54	
									155-1	color 31
									59	_
									160-1	color 32
									64	
									165-1	color 33
									69	
									170-1	color 34
									74	_
									175-1	no function
									79	



			Mode/	Channel				Channel	<u>. </u>	
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
									180-2	color fade,
									01	fast to slow
									202-2	atan
									07	stop
									208-2	reverse
									29	color fade,
49	49	28	17	12	13	9	8	Color		fast to slow
									230-2	no function
									34	no function
									235-2	Color jump,
									49	fast to slow
									250-2	no function
									55	
									0-7	00000
									8-15	●0000
									16-23	●●○○○
									24-31	•••00
									32-39	••••
50	50	29	18	13		10	9	Pattern	40-47	••••
50	50	29	10	15		10	9	Fattern	48-55	$\circ \bullet \bullet \bullet \bullet$
									56-63	0000
									64-71	000●●
									72-79	0000●
									80-87	00000
									88-95	$\bigcirc \bullet \bullet \bullet \bullet$



			Mode/	Channel				Channel		Function
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
									96-10 3	•••••
									104-1	
									11	$\bullet \bullet \circ \bullet \bullet$
									112-1	
									19	$\bullet \bullet \bullet \circ \bullet$
									120-1	
									27	$\bullet \bullet \bullet \bullet \circ$
									128-1	00•••
									35	
									136-1	●○○●●
50	50	29	18	13		10	9	Pattern	43	•••••
		20				10	0	1 ditorri	144-1	●●○○●
									51	
									152-1	●●●○○
									59	
									160-1	$\bigcirc \bullet \bullet \bullet \bigcirc$
									67	
									168-1	000●●
									75	
									176-1	●000●
									83	
									184-1	●●○○○
									91	



			Mode/	Channel				Channel	.	
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
									192-1 99	0
									200-2 07	0000
									208-2	
									15	0000
									216-2	
									23	●0000
50	50	29	18	13		10	9	Pattern	224-2	
									31	0000
									232-2	
									39	0000
									240-2	00000
									47	
									248-2	00000
									55	
									0-15	no function
									16-20	LED built-in 1
51	51	30	19	14		11	10	LED	21-25	LED built-in 2
								built-in	26-30	LED built-in
									31-35	LED built-in 4



			Mode/0	Channel				Channel	DMX	Function
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name		Function
									36-40	LED built-in 5
									41-45	LED built-in 6
									46-50	LED built-in 7
									51-55	LED built-in 8
									56-60	LED built-in 9
54	F4	00	10			44	40	LED	61-65	LED built-in 10
51	51	30	19	14		11	10	built-in	66-70	LED built-in 11
									71-75	LED built-in 12
									76-80	LED built-in 13
									81-85	LED built-in 14
									86-90	LED built-in 15
									91-95	LED built-in 16



			Mode/	Channel				Channel	- 11 9 6	
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
56CH	54CH	33CH			15CH	54MS	33MS		DMX 96-10 0 101-1 05 106-1 10 111-1 15 116-1 20 121-1 25	Function LED built-in 17 LED built-in 18 LED built-in 19 LED built-in 20 LED built-in 21 LED built-in 21
									126-1 30	LED built-in 23
									131-1 35	LED built-in 24 (main built-in)
									136-1	LED built-in
									40	25
									141-1	LED built-in
									45	26
									146-1	LED built-in
									50	27



			Mode/0	Channel				Channel	DMY	Function
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name		Function
56CH	54CH	33CH			15CH	54MS	33MS		DMX 151-1 55 156-1 60 161-1 65 166-1 70 171-1 75 176-1 80 181-1 85 186-1 90 191-1 95 196-2	Function LED built-in 28 LED built-in 29 LED built-in 30 LED built-in 31 LED built-in 32 LED built-in 33 LED built-in 33 LED built-in 33
									196-2 00	LED built-in 37
									201-2	LED built-in
									05	38
									206-2	LED built-in
									10	39

			Mode/0	Channel				Channel		
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
51	51	30	19	14		11	10	LED built-in	211-2 15 216-2 20 221-2 25 226-2 30 231-2 35 236-2 40 241-2 45 246-2 50 251-2 55	LED built-in 40 LED built-in 41 LED built-in 42 LED built-in 43 LED built-in 44 LED built-in 45 LED built-in 45 LED built-in 46
52	52	31	20	15		12	11	LED built-in speed	0-255	fast to slow
53								Macro	0-7 8-23	no function auto built-in 1



			Mode/	Channel				Channel	DMY	Function
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
									24-39	auto built-in 2
									40-55	auto built-in 3
									56-71	auto built-in 4
									72-87	auto built-in 5
									88-10	auto built-in
									3	6
									104-1	auto built-in
									19	7
53								Macro	120-1	auto built-in
									35	8
									136-1	auto built-in
									51	9
									152-1	auto built-in
									67	10
									168-1	auto built-in
									83	11
									184-1	auto built-in
									99	12
									200-2	auto built-in
									15	13

Mode/Channel Channel DMX Function 56CH 54CH 33CH 22CH 17CH 15CH 54MS 33MS Name 216-2 auto built-in 31 14 232-2 auto built-in 53 Macro 47 15 auto built-in 248-2 16 (main 55 built-in) Macro 54 0-255 fast to slow Speed Zoom from small 53 32 16 14 13 12 55 21 0-255 to big 0-9 no function pan/tilt 10-14 blackout 15-19 reserved 20-24 reserved 25-29 reserved 30-34 reserved 56 54 33 22 17 15 14 13 Control 35-39 reserved 40-44 reserved 45-49 reserved 50-54 pan reset 55-59 tilt reset 60-64 zoom reset 65-69 reserved



			Mode/	Channel				Channel		F ormation
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
									70-74	all reset
									75-79	reserved
									80-84	reserved
									85-89	reserved
									90-94	reserved
									95-99	reserved
									100-1	reserved
									04	Teserveu
									105-1	reserved
									09	
									110-1	reserved
									14	
56	54	33	22	17	15	14	13	Control	115-1	reserved
									19	
									120-1	FAN ECO
									24	
									125-1	FAN FULL
									29	
									130-1	FAN AUTO
									34	
									135-1	dimmer fast
									39	mode
									140-1	dimmer
									44	smooth
										mode

Mode/Channel							Channel			
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DMX	Function
									145-1 49	no function
									150-1	Square
									54	curve
									155-1	I Square
									59	curve
									160-1	Course
									64	Scurve
									165-1	white mode
									69	white mode
									170-1	full mode
									74	
56	54	33	22	17	15	14	13	Control		color
									175-1	calibration
									79	off when
										single color
										color
									180-1	calibration
									84	on when
										single color
									185-2	no function
									39	
									240-2	color
									240-2 47	calibration
									1	on



Mode/Channel						Channel	DMX	Function		
56CH	54CH	33CH	22CH	17CH	15CH	54MS	33MS	Name	DIVIA	FUNCTION
56	54	33	22	17	15	14	13	Control	248-2 55	color calibration off

7. MAINTENANCE

Cleaning the fixture can maintain optimum performance of the fixture. Cleaning frequency can be determined by environment and usage. Damage caused by excessive dust, smoke fluidity, abnormal usage and unreasonable maintenance is not covered by the warranty.

- 1. Check the plastic covers, optics and light source. If they are damaged, please replace immediately.
- 2. Ensure all the screws are fastened.
- 3. Check wiring for signs of aging.
- 4. Clean all the optics with ammonia-free glass cleaner.
- 5. Ensure all the vents are dust-free and no objects blocking it.
- 6. Ensure there is no objects inside the fixture.



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