



User Manual

Please read the instruction carefully before use

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01/ Safety Information

Please keep this User Manual for future consultation. If you sell the unit to another user, be

sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer

will not accept liability for any resulting defects or problems.

Unpack and check carefully to ensure that there is no transportation damage before using the unit.

This product is suitable for wet locations. Do not immerse in water.

DO install and operate by qualified operator.

DO NOT allow children to operate the fixture.

Use safety chain (made of steel, min. diameter 4.0mm) when fixing the unit. Handle the

unit by carrying its base instead of head only.

The unit must be installed in a location with adequate ventilation, at least 50cm from

adjacent surfaces.

Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.

Before operation, ensure that you are connecting this product to the proper voltage in

accordance with the specifications in this manual or on the product's specification label.

It's important to ground the yellow/green conductor to earth in order to avoid electric

shock.

Minimum ambient temperature TA: -10°C. Maximum ambient temperature TA: 40°C. Do

not operate this product at a lower or higher temperature.

DO NOT connect the device to any dimmer pack.

Keep flammable materials away from the fixture while operating to avoid fire hazard.

Make sure the power cord is not crimped or damaged; replace it immediately if damaged.

Unit's surface temperature may reach up to 70°C. DO NOT touch the housing bare-handed during its operation.

Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut

off the mains power immediately.

DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.

DO NOT touch any wire during operation as there might be a hazard of electric

shock.

Avoid entanglement of the power cord with other wires.

The minimum distance to objects/surface must be more than 4 meters.

In the event of serious operating problem, stop using the unit immediately.

Never turn on and off the unit time after time.

The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

DO NOT open the housing as there are no user serviceable parts inside.

DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.

Disconnect this product from its power source before servicing.

DO use the original packaging if the device is to be transported.

Check that the head tilt lock is released before packing for transportation.

Avoid direct eye exposure to the light source while the product is on.

DO NOT operate this product if you see damage on the housing, shields, or cables.

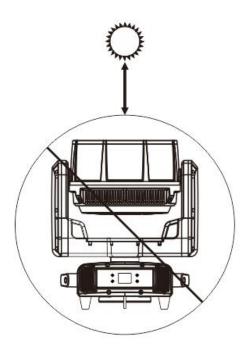
Have

the damaged parts replaced by an authorized technician at once.

External sources of light beams from direct sunlight or any other strong light source, which penetrate the front lens of lighting fixtures, can cause severe internal damage. DO

NOT expose the fixture front lens to light beams from direct sunlight or any other strong

light source from any angle while unpacking, installation, use, and extended idle times outdoors. DO NOT focus a light beam from one lighting fixture directly towards another.



02/ Technical Specifications

Input voltage: AC100-240V 50/60Hz

Power consumptionn: 760W LED type: 54*0.2W 5050 RGB

LED QTY: 19pc

Average lifespan: 50000 hours

Beam angle: 4°-32°

Electronic Dimming: 0-100%

Strobe: 1S/25 Focus: Yes Rotate: Yes Pan: 540° 16bits Tilt: 270° 16bits

DMX channel: 28CH/30CH/42CH/85CH/99CH/104CH/106CH

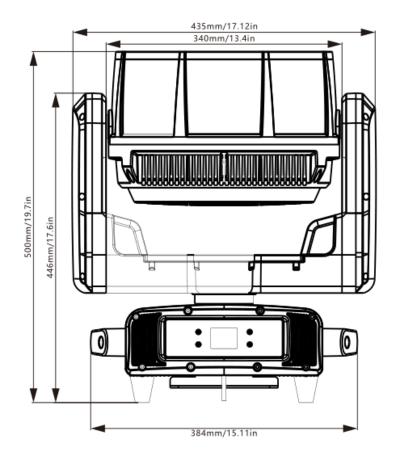
Control mode: DMX /RDM

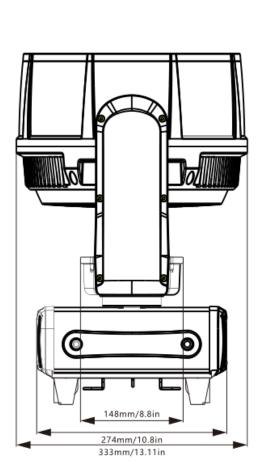
Display mode: LED IP rating: IP65

Max ambient temp: 45°

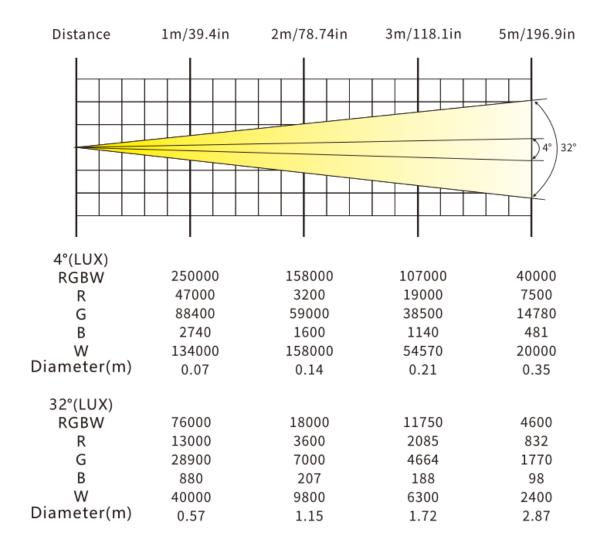
Product dimension: 435*333*500 mm

N.W: 21.4kG





Photometric Diagram:



03/ Connecting Power and Data

To apply power, first check that the head pan and tilt locks are released.

This fixture can operate on any 180-240Vac; 50/60Hz AC mains power supply.

The maximum power consumption is 760W.

The fixture must be grounded/earthed and able to be isolated from AC power. The AC power

supply must incorporate a fuse or circuit breaker for fault protection.

Wiring and connection work must be carried out by a qualified electrician.

The power cable color coding is given in the figure below:

	Wire	Color (US)	Wire	Color (EU)	Symbol	Conductor
		black		brown	L	live
		white		blue	N	neutral
		green		yellow/green	± or ⊕	ground (earth)

Power cord set should be used: Listed SJOW flexible cord with rating: 300V, 105°C, VW-1,

14AWG x 3C, molded with 5-20P attachment plug and terminated with cord connector model RCAC3F-X-000-01 with rating 250V, 16A by Neutrik Technology (Ningbo) Co., Ltd.

The power cord shall be at least 914mm (It is to be measured from the face of attachment

plug to the face of connector).

CAUTION!

DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.

04/ Connecting Data

The fixture is equipped with 5-pin (or 3-pin) XLR sockets for DMX input and output. Use a

high-quality DMX cable designed for RS-485 and 5-pin (or 3-pin) XLR-plugs and connectors

in order to connect the controller with the fixture or one fixture with another. For outdoor

installations, use only IP-rated XLR connectors suitable for outdoor use. Building a serial DMX chain:

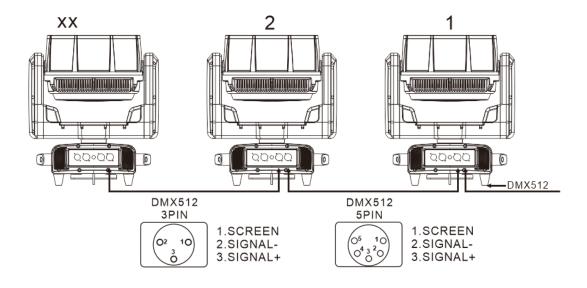
Connect the DMX data output from the controller to the fixture's data input socket. Connect

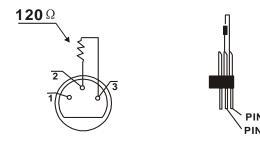
the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture.

Always connect one output with the input of the next fixture until all fixtures are connected.

Up to 32 fixtures can be connected to the same DMX link. Terminate the DMX out cable of

the last fixture in the data link with a 120 ohm DMX terminator.





05/ Address Setting

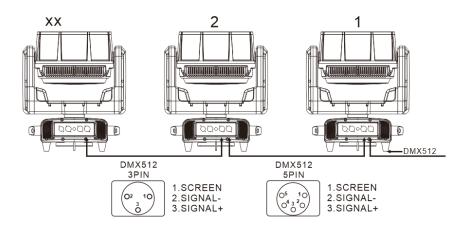
All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct fixture responds to the correct control signal. Incorrect settings will result in unpredictable responses from the lighting controller.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture.

Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In this case, please note that changing the settings of one channel will affect all the fixtures simultaneously.

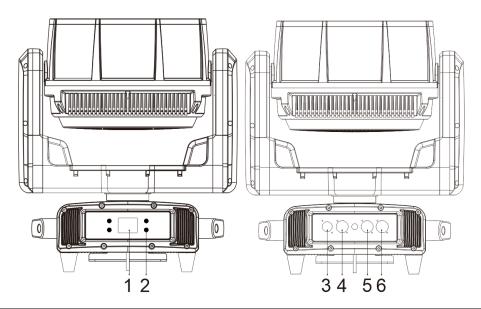
If you set each fixture to a different DMX address, each unit will "listen" starting at the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, if the first fixture is set to 43 ch DMX mode with a start DMX address of 1, the following fixture in the DMX chain should then be set to a DMX address of 44. As the first fixture uses all the first 43 DMX channels, the next available channel is 44 (43+1=44 >> 44). See the chart below for more details:



Channel	Unit 1	Unit 2	Unit 3	Unit 4	Unit xxx
Mode	Address	Address	Address	Address	Address
43 channels	1	44	87	130	
34 channels	1	35	69	103	
32 channels	1	33	65	97	
23 channels	1	24	47	90	

06/ Overview



• 1. Display	To show the various menus and the selected function			
• 2. Buttons	MENU	To enter into move backward or leave the menu		
	UP	To go backward to move up in the menu		
	DOWN	To go forward to move down in the menu		
	ENTER	To perform the desired functions		
• 3. DMX IN	-	R cable to link the unit and DMX al (optional with 3-pin IP XLR)		
● 4. DMX OUT	For DMX512 link, use 5-pin XLR cable to link the next units to output DMX signal (optional with 3-pin IP XLR)			
• 5.6 POWER IN	To connect to	supply power		

07/ Display and operation

Main menu	Sub-MENU	Parameter			
DMX Address	001 - 512	Value plus or minus one			
DMX Mode	Dmx Select	Channel 28/Channel 30/ Channel 42/Channel 85/ Channel 99/Channel 104/ Channel 106			
	Show Mode	Self-propel led program (1-10) Speed70 Auto Program(1-10) Speed 70			
	Color Macro	Pan/Tilt//Dimmer/C.M			
	CCT Macro	(3000K-7000K) Pan/Tilt//Dimmer/CCT			
Stand Alone	Manual Test	LED1-R、LED1-G、LED1-B、LED2-R、LED2-G、 LED2-B、LED3-R、LED3-G、LED3-B、LED4-R、 LED4-G、LED4-B、LED5-R、LED5-G、LED5-B、 LED6-R、LED6-G、LED6-B、LED7-R、LED7-G、 LED7-B、LED8-R、LED8-G、LED8-B、LED9-R、 LED9-G、LED9-B、LED10-R、LED10-G、LED10- B、LED11-R、LED11-G、LED11-B、LED12-R、 LED12-G、LED12-B、LED13-R、LED13-G、 LED13-B、LED14-R、LED14-G、LED14-B、 LED15-R、LED15-G、LED15-B、LED16-R、 LED16-G、LED16-B、LED17-R、LED17-G、 LED17-B、LED18-R、LED18-G、LED18-B、			

		LED19-R、LED19-G、LED19-
		Red/Red Fine/Green/Green
		Fine/Blue/Blue Fine/
		White/White Fine/
		Linear CTO/Macro Colour/
		Strobe/Dimmer/Dimmer Fine
		/Pan/Pan Fine/Tilt/
		Tilt Fine/Function/
		Reset/Zoom/Zoom Rotation/
		LED1-R、LED1-G、LED1-B、LED2-R、LED2-G、
		LED2-B、LED3-R、LED3-G、LED3-B、LED4-R、
		LED4-G、LED4-B、LED5-R、LED5-G、LED5-B、
		LED6-R、LED6-G、LED6-B、LED7-R、LED7-G、
		LED7-B、LED8-R、LED8-G、LED8-B、LED9-R、
		LED9-G、LED9-B、LED10-R、LED10-G、LED10-
		B、LED11-R、LED11-G、LED11-B、LED12-R、
		LED12-G、LED12-B、LED13-R、LED13-G、
		LED13-B、LED14-R、LED14-G、LED14-B、
		LED15-R、LED15-G、LED15-B、LED16-R、
		LED16-G、LED16-B、LED17-R、LED17-G、
		LED17-B、LED18-R、LED18-G、LED18-B、
		LED19-R、LED19-G、LED19-B/
		Rope Dimmer/Rope Strobe/
		Rope R/Rope G/Rope B/Rope Eff/
		Rope Eff SP
	DMX Fail	Blackout/Auto/Hold
	Dim Freq	1200Hz/2400Hz/3600Hz/4800Hz/6000Hz
System	Dim Curve	Exp/Log/Line/S-Curve
Setup	Dim Resp	Led/Halogen
	FAN Mode	Auto/High/Low
	P/T Encoder	ON/OFF

	Invert Pan	ON/OFF		
	Invert Tilt	ON/OFF		
	Invert Screen	ON/OFF		
	Dis Backlight	ON/OFF		
	Screen Lock	ON/OFF		
	Language	中文/EN		
	Doctory Docct	ОК		
	Pactory Reset	Cancel		
Calibration	Password8888	Lamp calibration		
	Err Info	System OK		
		Display Board Ver30		
	Firmware	Motor Board Ver27		
System Info		LED Board Ver52		
	OP.Hours	118. 7H		
	LED.Hours	107. OH		
	Temp	26°C		

08/ DMX Protoco

CH30.CH106-CHANNEL MODE:

СН30	CH106	Function	Value	Instruction
1	1	X	0-255	
2	2	X fine	0-255	
3	3	Y	0-255	
4	4	Y	0-255	
5	5	XY speed	0-255	From fast to slow
6	6	Zoom	0-255	Small to big
			0-127	0~60°
7	7 7	Lens rotation	128-188	Endless rotation from fast to slow
			189-193	stop
			194-255	Endless rotation from slow to fast
8	8	Total dimmer	0-255	0–100%
			0-3	on
			4-200	From slow to fast (1HZ-25HZ)
9	9	Strobe	201–215	Low speed random strobe
			216-234	middle speed random strobe
			235-255	high speed random strobe
10	10	Red	0-255	0-100%
11	11	Green	0-255	0-100%
12	12	Blue	0-255	0-100%

13	13	Whit	0-255	0-100%
14	14	Color temp adjust	0-255	3200K-6500K
15	15	Marco color	0-255	Inner color change
			0-9	no function
			10-14	Effect1
			15-19	Effect 2
			20-24	Effect 3
16	16	Static effect		•••
				Every 5 datas as one effect
				•••
			175-179	Effect 34
			180-184	Effect 35
			185-255	Effect 36
		0-9	no function	
		10-14	Effect 1	
		17 Dynamic effect	15-19	Effect 2
	4-		20-24	Effect 3
17	17			
				Every 5 datas as one effect
			220-224	Effect 43
			225-229	Effect 44
			230-255	Effect 45
18	18	Dynamic effect	0-126	From fast to slow
		speed	127-128	stop

			129-255	From slow to fast
			/	
19	19	Background red	0-255	0-100%
				0-100%
20	20	Background green	0-255	
		Duerigi curiu gi cori	0 200	
21	21	Background blue	0-255	0-100%
22	22	Background white	0-255	0-100%
		Background wireco	0 200	No function
			0-25	
		_	26-76	Head reset after 5s
23	23	Reset		
			77–127	XY reset after 5s
			128-255	All reset after 5s
	24	Red 1 led dimmer	0-255	Red 1 led dimmer
	25	Green 1 led dimmer	0-255	Green 1 led dimmer
	26	Blue 1 led dimmer	0-255	Blue 1 led dimmer
	27	Whit 1 led dimmer	0-255	Whit 1 led dimmer
	•••	•••	••••	•••••
	•••	•••	•••••	•••••
	96	Red 19 led dimmer	0-255	Red 19 led dimmer
	97	Green 19 led dimmer	0-255	Green 19 led dimmer
	98	Blue 19 led dimmer	0-255	Blue 19 led dimmer
	99	Whit 19 led dimmer	0-255	Whit 19 led dimmer
24	100	SMD LED Dimming	0-255	0-100%
25	101	SMD LED strboe	0-4	no
25	101	OIIID EED SCIDOR	5-250	Strobe speed from slow to block

			254 255	no		
			251-255			
26	102	Red 1 led dimmer	0-255	0-100%		
		Green 1 led				
27	103	dimmer	0-255	0-100%		
		Blue 1 led		0-100%		
28	104	dimmer	0-255	0-100%		
			0-			
			11	No function		
			12-13	Red		
			14-15	Green		
29	105	SMD led rings	16–17	Blue		
			18-19	Red + Green		
				Two numerical values and a color		
			20-51	mixing effect		
			52-255	Dynamic effect		
		Dynamic effect		From fast to slow		
30	106	speed	0-255	FIOIII IASC CO SIOW		

CH28.CH42. CH85.CH99. CH104-CHANNEL MODE:

CH28	СН42	СН85	СН99	CH104	Function	Value	Instruction
1	1	1	1	1	Red	0-255	0-100%
2	2	2	2	2	Red fine	0-255	
3	3	3	3	3	Green	0-255	0-100%
4	4	4	4	4	Green fine	0-255	
5	5	5	5	5	Blue	0-255	0-100%
6	6	6	6	6	Blue fine	0-255	
7	7	7	7	7	white	0-255	0-100%
8	8	8	8	8	White fine	0-255	
9	9	9	9	9	Color temp	0-255	

					adjust		
10	10	10	10	10	Color macro	0-255	Inner color change
						0-3	open
						4-200	From slow to fast
						201-	
11	11	11	11	11	Strobe	225	Low speed random strobe
						226-	
						234	middle speed random strobe
						235-	
						255	high speed random strobe
12	12	12	12	12	Total dimmer	0-255	0-100%
13	13	13	13	13 13	Total dimmer	0-255	
13	13	13	13	15	fine	0-255	
14	14	14	14	14	X	0-255	pan
15	15	15	15	15	X fine	0-255	Pan fine
16	16	16	16	16	Y	0-255	Tilt
17	17	17	17	17	Y fine	0-255	Tilt fine
18	18	10	18	18 18	Marco	0-255	No function
10	10	18	10	10	function	0-200	INO IUIICUOII
19	19	10	10	0 10	Reset	0-25	No function
13	10	19 19 19 Reset	NOOL	26-76	Head reset after 5s		

						77-127	XY reset after 5s
						128-255	full reset after 5s
20	20	20	20	20	Zoom	0-255	0-100%
						0-127	0-60 degrees
21	21	21	21	21	Lens	128-188	Endless rotation from fast to slow
21	21	21	21	21	rotation	189–193	Stop
						194-255	Endless rotation from slow to fast
						0-7	No function
					Inner effect	8	Static effect 1
		/				9	Static effect 2
						10	Static effect 3
						11	No function
						12	Static effect 4
						13	Static effect 5
/	22		22	22 /		14	No function
'			22			15	Dynamic effect 1
						16	Dynamic effect 2
						17	Dynamic effect 3
						18	Dynamic effect 4
						19	Single color random
						20	Full color random
						21	Rainbow effect 1
						22	Rainbow effect 2

23	Dynamic effect 5
24	Dynamic effect 6
25	Dynamic effect 7
26	Dynamic effect 8
27	Dynamic effect 9
28	Dynamic effect 10
29	Dynamic effect 11
30	Dynamic effect 12
31	Dynamic effect 13
32	Dynamic effect 14
33	No function
34	No function
35	Dynamic effect 15
36	Dynamic effect 16
37	Dynamic effect 17
38	Dynamic effect 18
39	Dynamic effect 19
40	Dynamic effect 20
41	No function
42	Dynamic effect 21
43	No function
44	Dynamic effect 22
45	Dynamic effect 23
46	Dynamic effect 24
	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

			_	47	Dynamic effect 25
				48	Dynamic effect 26
				49	Dynamic effect 27
				50	Dynamic effect 28
				51	Dynamic effect 29
				52	Dynamic effect 30
				53	Dynamic effect 31
				54	Dynamic effect 32
				55	Dynamic effect 33
				56	Dynamic effect 34
				57	Dynamic effect 35
				58	Dynamic effect 36
				59	Dynamic effect 37
				60	Dynamic effect 38
				61	Random position 1
				62	Random position 2
				63	Random position 3
				64	No function
				65	Random position 4
				66	Random position 5
				67	Dynamic effect 39
				68	Dynamic effect 40
				69	No function
				70	Dynamic effect 41
 •	 ı		I		

			71-255	No function
			0-63	Static effect
			64-158	Flow slow to fast
23	23	Effect speed	159–160	Dynamic effect desalting
			161-	Flow slow to fast
			255	THOW SIGN TO TUSE
24	24	Effect	0-255	Dynamic effect desalting
		desalting		Dynamic effect desaiting
25	25	Effect red	0-255	Dynamic effect red
26	26	Effect green	0-255	Dynamic effect green
27	27	Effect blue	0-255	Dynamic effect blue
28	28	Effect white	0-255	Dynamic effect white
29	29	Effect dimmer	0-255	0-100%
30	30	Background	0-255	0-100%
30		dimmer	0-233	0-100%
31	31	Effect	0-255	Patterns change
31		transition	0-233	Patterns change
32	32	Effect	0-255	Dette we a series se
32	32	replenish	0-233	Patterns moving
33	33	Forecolor	0-255	Same with CH11
33	33	strobe	0-233	Jame With Cliff

	34		34		Background strobe	0-255	Same with CH11
	35		35		Background option	0-255	
		22	36	22	R1 LED dimmer	0-255	0-100%
		23	37	23	G1 LED	0-255	0-100%
		24	38	24	B1 LED dimmer	0-255	0-100%
				25	W1 LED dimmer	0-255	0-100%
	/	25	39	26	R2 LED dimmer	0-255	0-100%
		•••			•••	0-255	•••••
		76	91	94	R19 LED dimmer	0-255	0-100%
		77	90	95	G19 LED dimmer	0-255	0-100%
		78	92	96	B19 LED dimmer	0-255	0-100%
		/	/	97	W19 LED dimmer	0-255	0-100%
22	36	79	93	98	Color temp adjust	0-255	0-100%
23	37	80	94	99	Strobe	0-4	0n

						5-250	Flow slow to fast
						251–255	0n
24	38	81	95	100	Red	0-255	0-100%
25	39	82	96	101	Green	0-255	0-100%
26	40	83	97	102	Blue	0-255	0-100%
						0-11	No function
						12-13	Red
						14-15	Green
0.7	41	0.4	00	100	Dec.	16-17	B1ue
27	41	84	98	103	Effect	18-19	Red+Green
						20-51	Two numerical values and a color mixing effect
						52-255	Dynamic effect
28	42	85	99	104	Dynamic effect	0-255	From fast to slow
					speed		

09/ Troubleshooting

Problem	Potential cause(s)	Remedies
Fixture does not respond	No power to the fixture.	Confirm that the power is
or appears to be off.		switched on and cables are
		plugged in.
	No output from PSU.	Replace the PSU.
Fixture suddenly turned	Power was turned off.	Check the power supply,
off.		switches
		and breakers
Light output cuts out	Fixture is too hot.	Check fixture's stored error
intermittently.		messages for more
		information.
		Allow fixture to cool.
		Clean fixture.
		Reduce ambient temperature.
Fixture suddenly stopped	DMX cables were	nspect DMX cables.
responding.	disconnected.	
Fixture operates	Incorrect DMX address or	Inspect and enter the correct
irregularly / abnormal.	DMX mode.	DMX
		address or mode
	DMX link is not	Install a XLR 120ohm DMX
	terminated.	termination at the end of the
		DMX link.
	Bad data link.	Replace or repair defective
		cables
		and/or connections
	One of the fixtures is	Track and isolate the
	defective and is disturbing	corrupted
	data transmission on the	fixture.
	link.	Have the fixture serviced by a
		qualified technician.
Pan / tilt is skipping /	Pan/ tilt locks are not	Release the pan / tilt locks
shuddering	released.	
	Obstacles are within the	Inspect and remove any
	required pan / tilt	obstacles
	clearance.	constraining free operation of
		the
		pan / tilt.
	The Hall element is	Replace the Hall element
	damaged	
	The magnetic steel fell	Replace the magnetic steel
	out	

10/ Fixture Cleaning

Regular cleaning is very important for fixture life and performance. Buildup of dust, dirt,

smoke particles, fog fluid residues, etc. degrades the fixture's light output and cooling ability.

Cleaning schedules for lighting fixtures vary greatly depending on the operating environment.

It is therefore impossible to specify precise cleaning intervals for the fixture. Environmental

factors that may result in a need for frequent cleaning include:

Use of smoke or fog machines.

High airflow rates (near air conditioning vents, for example).

Airborne dust (from stage effects, building structures and fittings or the natural environment at outdoor events, for example).

If one or more of these factors is present, inspect fixtures within their first few hours of operation to see whether cleaning is necessary. Check again at frequent intervals. This procedure will allow you to assess cleaning requirements in your particular situation. Follow these precautions when cleaning the fixture:

Work in a clean, dry, well-lit area.

Use gentle pressure only. A soft lint-free cloth dampened with a solution of water and a

mild detergent is recommended, under no circumstances should alcohol, solvents or abrasives be used! Use care when cleaning optical components: surfaces are fragile and

easily scratched.

