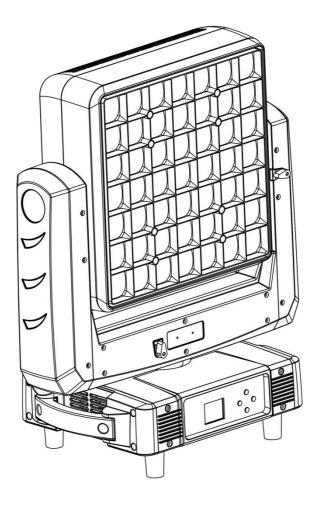
4920Z

49*20w Matrix Zoom Moving Head



User manual

Please read the instructions carefully before use

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statement

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can't be responsible for any malfunction & problem owing to ignore the manual.

1. Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50 cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit. Do not handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is Ta: 40°C. D₀ not operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C. D₀ not touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Do not touch any wire during operation as high voltage might be causing electric shock.

Warning:

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- Do not open the unit within five minutes after switching off.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2. Technical Specifications

Light Sources: 49*20W 4IN1 RGBW LED Beam Angle: 4°- 46° Power Consumption: 760W \pm 5%,power factor PF \geq 0.95; standby power: 26W Power Voltage: AC 100-240V, 50/60Hz Dimension: 477mm \times 272mm \times 579.5mm Net Weight: 22.5 kg Carton Package 1in1 size: 60*60*46cm Gross Weight: 27.2 kg Flight Case Package 2in1 size: 79*56*79cm Gross Weight: 87.8 kg

Control

DMX Channel: 22/25/33/229/206 Channels Control Modes: DMX512/Master-Slave/Auto Run/Music/Artnet

Pan/Tilt

Pan: 540°, accuracy 2.11° /step, fine-tuning accuracy: 0.008° Tilt: 270°, accuracy 0.86° / step, fine-tuning accuracy: 0.0034° Pan/Tilt Resolution: 8/16 bit Tilt infinite rotation; Using photoelectric reset system

Construction

Display:180° reversible 1.8 inch TFT colorful Display Data In/Out socket: 3-pin & 5-pin XLR sockets Power Socket: Power Con in/out Protection Rating: IP20

Features

Full light domain dimming, 65536 levels of dimming accuracy; Fast strobe 1~25Hz; preset various kinds of color macro function; preset various kinds of effect macro function;

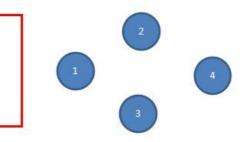
LED temperature protection & Speed of fan automatic adjustment based on the temperature of the head;

Single LED control, zoom effect, Tilt infinite rotation.

3 LUX Date

Beam Angle =4° R lux G lux B lux W lux 4in1 lux	13000 32400 4690 32900 81600	9010 19100 3910 24800 54400	6360 14000 2750 18200 38800	2680 5870 1160 7550 16400
Beam Angle =46°				
R lux G lux B lux W lux 4in1 lux	7220 16100 3270 20300 44100	873 2060 419 2570 5560	350 802 162 1010 2210	143 320 64.1 406 888
	1	3	4° 46°	8
Distance (m) Spot diameter (m) 4° Spot diameter (m) 46°	1 0.48 0.85	3 0.69 2.52	5 0.90 3.66	8 1.35 None
	0.00	L .0L	0.00	110110

4. How To Control The Unit



Display:

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

Set DMX Address Code

1 Press **"Menu"** to "Set DMX Address", and press **"ENTER"** keys to enter into

2 Show "Set DMX Address DMX Address:**001**", Press the "**UP and DOWN**" keys to amended

3 Press **"ENTER"** keys to save and Exit, Press the **"MENU"** Keys does not save and Exit

1.Pan Degree	1)540 °, 2)360°	Pan running angle
		selection
2.Mic Sense	001 - 100	Sound sensitivity
		adjustment
3.Language	English	Chinese

	4.No Signal	1.Black Out 2.Hold	
	5.Fan Set	1.Auto 2. Low	
		3.High	
	6.ArtNet Set	ArtNet Enable:	1.ON 2.OFF
		2.Universe:0255	
Menu		3.IP Mode:	A.2.X.X.X Auto
			B.10.X.X.X Auto
			C.Custom
		4.Custom IP	192.168.000.001
		5.SubNetMask	255.000.000.000
	7.Reset	Yes	Reset
		No	
	8.Default	Yes	Default
		No	
		Pass Word: up	o+down+up+down
		1.Pan	0 - 255
		2.Tilt	0 - 255
	9.Adjust	3.Focus	0 - 255
		4.Red	0 - 255
		5.Green	0 - 255
		6.Blue	0 - 255
		7.White	0 - 255
Address		Setting from 001 - 5	12
			1.Yes

			Pan	2.No
				1.Yes
	Forwa		Tilt	2.No
Reverse	reversed	setting		1.Yes
			Display	2.No
		1.CH		Each channel show CH
		Value		value
		2.Temp		Show the temperature of
		°C		led board
1	4:	3.Soft		Show the version
Inform	nation	V.XXX		number
		4.IP	002.016.035.052	Default IP
			255.000.000.000	Default submask
		1	1.22Channels	
		2	2.25Channels	-
		3.33Channels		Select channel mode
Cha	nnel	4.229Channels		
		5.206Channels		
			DMX 5	12
Mo	de	AUTO		
		SOUND		
			1.Pan:0255	
			2.Pan Rotation:	
			0255	_
			3.Tilt:0255	

		4.Tilt Rotation: 0255	
		5.Focus:0255	
Mode	Manual control	6.Red1: 0255	Manual control
		7.Greed1: 0255	
		8.Blue1: 0255	
		9.White1: 0255	
		10.Strobe1: 0-255	
		11.Red2: 0255	
		12.Greed2: 0255	
		13.Blue2: 0255	
		14.White2: 0255	
		15.Strobe2: 0-255	
	Alone/Master	1.Master	
	AIOTIC/Mastel	2.Alone	Alone/Master

5.DMX Channel List

Model 1 - 22Channels

Channel	Display	Function	Value
CH-1	Red	Red dimming	0 255
CH-2	Red adjustment	Red adjustment	0 255
CH-3	Green	Green dimming	0 255
CH-4	Green adjustment	Green adjustment	0 255
CH-5	Blue	Blue dimming	0 255
CH-6	Blue adjustment	Blue dimming	0 255
CH-7	White	White dimming	0 255
CH-8	White adjustment	White adjustment	0 255
CH-9	linear color temperature	No effect	04
		Color temperature from warm to cold	5255
		No effect	09
CH-10	Macro color	Macro color 1	1019
		Macro color 2	2029
		(10 numbers 1 macro color)	

CH-10	Macro color	Macro color 24	240249
00-10			240249
		Macro color 25	250255
CH-11	Dimmer	dark to bright linear dimming	0 255
CH-12	Dimmer adjust	Dimmer adjustment control	0 255
		Turn on the light	03
CH-13	Strobe	Synchro strobe speed	
		slow to fast (1HZ-25HZ)	4203
		Random strobe	204255
CH-14	Pan	Pan control	0 255
CH-15	Pan adjustment	Pan adjustment control	0 255
CH-16	Tilt	Tilt control	0 255
CH-17	Tilt adjustment	Tilt adjustment control	0 255
CH-18	Pan/Tilt Speed	Speed fast to slow	0 255
		No Funtion	055
		Infinite rotation from slow to	56155
CH-19	Tilt infinite rotation	fast	
	control	Infinite rotation reversal from	156255
		slow to fast	
CH-20	Zoom	Zoom	0255
		Mode -1	0 49

		Mode -2	50 99
CH-21	Dimming Mode	Mode -3	100149
		Mode -4	150255
		NO	0-250
CH-22	Reset	Reset within 5s	251255

Model 2 - 25Channels

Channel	Display	Function	Value
CH-1	Pan	Pan control	0 255
CH-2	Pan adjustment	Pan adjustment control	0 255
CH-3	Tilt	Pan control	0 255
CH-4	Tilt adjustment	Tilt adjustment control	0 255
CH-5	Pan/Tilt speed	Speed from fast to slow	0 255
		No effect	055
CH-6	Tilt infinite control	Go from slow to fast	56155
		Reverse from slow to fast	15625 5
CH-7	Zoom	Zoom	0 255
CH-8	Dimmer	dark to bright linear dimming	0 255

		Turn on the light	03
		Synchro strobe speed	4203
CH-9	Strobe	From slow to fast (1HZ-25HZ)	
		Random strobe	204255
CH-10	R dimming	dark to bright linear dimming	0-255
CH-11	G dimming	dark to bright linear dimming	0-255
CH-12	B dimming	dark to bright linear dimming	0-255
CH-13	W dimming	dark to bright linear dimming	0-255
CH-14	linear color	No effect	04
	temperature	Color temperature from warm to cold	5255
		No effect	09
		Macro color 1	1019
CH-15	Macro color	Macro color 2	2029
		(10 numbers 1 macro color)	
		Macro color 24	240249
		Macro color 25	250255
		No	02
		pattern 1	35
		pattern 2	69

CH-16	Static pattern	(3 numbers 1 pattern)	
		pattern 59	174176
		pattern 60	177255
			177-200
		NO	09
		dynamic pattern 1	1011
		dynamic pattern 2	1213
		(2 numbers 1 pattern)	
		dynamic pattern 93	194195
CH-17	Dynamic pattern	dynamic pattern 94	196255
CH-18	Pattern translation (With 17	Select a dynamic pattern scene	0-255
	channels)		
	Dynamic	No effect	09
CH-19	pattern speed (with 17 channels)	Forward, from fast to slow(with 17CH)	10132
		Reverse, from slow to fast(with 17CH)	133255
CH-20	Back color R	dark to bright linear dimming	0-255
CH-21	Back color G	dark to bright linear dimming	0-255
CH-22	Back color B	dark to bright linear dimming	0-255

CH-23	Back color W	dark to bright linear dimming	0-255
CH-24		Mode -1	0 49
		Mode -2	50 99
	Dimming Mode	Mode -3	100149
		Mode -4	150255
		NO	0-250
CH-25	Reset	Reset within 5s	251-255

Model 3 - 33Channel

Channel	Display	Function	Value
CH-1	Pan	Pan control	0 255
CH-2	Pan adjustment	Pan adjustment control	0 255
CH-3	Tilt	Pan control	0 255
CH-4	Tilt adjustment	Tilt adjustment control	0 255
CH-5	Pan/Tilt speed	Speed from fast to slow	0 255
		No effect	055
CH-6	Tilt infinite control	Go from slow to fast	56155
		Reverse from slow to	156255

		fast	
CH-7	Zoom	Zoom	0-255
CH-8	Dimmer	dark to bright linear dimming	0 255
CH-9	Dimmer adjust	Dimmer adjusting control	0 255
CH-10		No effect	03
	Strobe	Synchro strobe speed From slow to fast (1HZ-25HZ)	4203
		Random strobe	204255
CH-11	Red	Red dimming	0-255
CH-12	Red adjustment	Red adjustment	0-255
CH-13	Green	Green dimming	0-255
CH-14	Green adjustment	Green adjustment	0-255
CH-15	Blue	Blue dimming	0-255
CH-16	Blue adjustment	Blue dimming	0-255
CH-17	White	White dimming	0-255
CH-18	White adjustment	White adjustment	0-255
CH-19		Mode -1	0 49
		Mode -2	50 99

	Dimming Mode	Mode -3	100149
		Mode -4	150255
CH-20	linear color	No effect	04
	temperature	Color temperature	5255
		from warm to cold	
		No effect	09
		Macro color 1	1019
CH-21	Macro color	Macro color 2	2029
		(10 numbers 1	
		macro color)	
		Macro color 24	240249
		Macro color 25	250255
		No effect	02
		pattern 1	35
		pattern 2	69
			(3 numbers and
CH-22	Static pattern		one type)
		pattern 59	174176
		Pattern 60	177255

CH-23	Dynamic pattern	No effect	09
		dynamic pattern 1	1011
		dynamic pattern 2	1213
			(2 numbers and one type)
		dynamic pattern 93	194195
		dynamic pattern 94	196255
CH-24	Pattern translation (with 23 channels)	Select a dynamic pattern scene	0255
CH-25	Dynamic pattern	NO	09
	effect speed	Forward, from fast to slow(with 23CH)	10132
		Reverse, from slow to fast(with 23CH)	133255
CH-26	Pattern effect fade	Pattern effect fade	0-255
CH-27	Background dimming	Background 0-100% dimming	0-255
CH-28	Background strobe	Background strobe	0-255
CH-29	Pattern Back R	Pattern effect R	0-255
CH-30	Pattern Back G	Pattern effect G	0-255

CH-31	Pattern Back B	Pattern effect B	0-255
CH-32	Pattern Back W	Pattern effect W	0-255
CH-33	Reset	No effect	0-250
		Reset within 5S	251-255

Model 4 - 229Channels

Channel	Display	Function	Value
CH-1	Pan	Pan control	0 255
CH-2	Pan adjustment	Pan adjustment control	0 255
CH-3	Tilt	Pan control	0 255
CH-4	Tilt adjustment	Tilt adjustment control	0 255
CH-5	Pan/Tilt speed	Speed from fast to slow	0 255
		No effect	055
CH-6	Tilt infinite control	Go from slow to fast	56155
		Reverse from slow to fast	156255
CH-7	Zoom	Zoom	0-255

CH-8	Dimmer	dark to bright linear dimming	0 255
CH-9	Dimmer adjust	Dimmer adjusting control	0 255
CH-10		No effect	03
	Strobe	Synchro strobe speed	4203
		From slow to fast (1HZ-25HZ)	
		Random strobe	204255
CH-11	Red	Red dimming	0-255
CH-12	Red adjustment	Red adjustment	0-255
CH-13	Green	Green dimming	0-255
CH-14	Green adjustment	Green adjustment	0-255
CH-15	Blue	Blue dimming	0-255
CH-16	Blue adjustment	Blue dimming	0-255
CH-17	White	White dimming	0-255
CH-18	White adjustment	White adjustment	0-255
CH-19		Mode -1	0 49
		Mode -2	50 99
	Dimming Mode	Mode -3	100149
		Mode -4	150255

CH-20	linear color	No effect	04
	temperature	Color temperature	5255
		from warm to cold	
		No effect	09
		Macro color 1	1019
CH-21	Macro color	Macro color 2	2029
		(10 numbers 1	
		macro color)	
		Macro color 24	240249
		Macro color 25	250255
		No effect	02
		pattern 1	35
		pattern 2	69
CH-22	Static pattern		(3 numbers and one type)
		pattern 59	174176
		Pattern 60	177255

CH-23	Dynamic pattern	No effect	09
Сп-23		NO effect	09
		dynamic pattern 1	1011
		dynamic pattern 2	1213
			(2 numbers and one type)
		dynamic pattern 93	194195
		dynamic pattern 94	196255
CH-24	Pattern translation	Select a dynamic	0255
	(with 23 channels)	pattern scene	
CH-25	Dynamic pattern	NO	09
	effect speed	Forward, from fast to	10132
		slow(with 23CH)	
		Reverse, from slow	133255
		to fast(with 23CH)	
CH-26	Pattern effect fade	Pattern effect fade	0-255
CH-27	Background	Background 0-100%	0-255
	dimming	dimming	
CH-28	Background strobe	Background strobe	0-255
CH-29	Pattern Back R	Pattern effect R	0-255
CH-30	Pattern Back G	Pattern effect G	0-255
CH-31	Pattern Back B	Pattern effect B	0-255
CH-32	Pattern Back W	Pattern effect W	0-255

			·
CH-33	Reset	No effect	0-250
		Reset within 5S	251-255
CH-34	R1 LED dimming	0255	R1 LED dimming
CH-35	G1 LED dimming	0255	G1 LED dimming
CH-36	B1 LED dimming	0255	B1 LED dimming
CH-37	W1 LED dimming	0255	W1 LED dimming
CH-226	R49 LED dimming	0255	R49 LED dimming
CH-227	G49 LED dimming	0255	G49 LED dimming
CH-228	B49 LED dimming	0255	B49 LED dimming
CH-229	W49 LED dimming	0255	W49 LED dimming

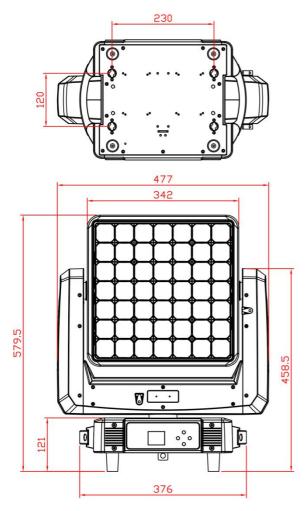
Model 5-206Channels

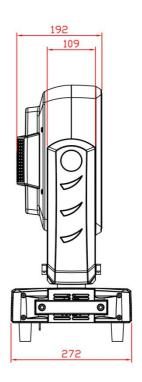
(combined with ArtNet,1~10 channels are controlled by ordinary DMX512, 11~206channels are controlled by ArtNet)

Channel	Display	Function	Value
CH-1	Pan	Pan control	0 255
CH-2	Pan adjustment	Pan adjustment control	0 255
CH-3	Tilt	Pan control	0 255
CH-4	Tilt adjustment	Tilt adjustment control	0 255
CH-5	Pan/Tilt speed	Speed from fast to slow	0 255
		No effect	055
CH-6	Tilt infinite control	Go from slow to fast	56155
		Reverse from slow to fast	156255
CH-7	Zoom	Zoom	0-255
CH-8	Reset	No effect	0-250
		Reset within 5S	251-255
CH-9	Dimmer	dark to bright linear	0 255

		dimming	
CH-10		No effect	03
	Strobe	Synchro strobe speed	4203
		From slow to fast (1HZ-25HZ)	
		Random strobe	204255
		dynamic pattern 93	194195
		dynamic pattern 94	196255
CH-11	R1 LED dimming	0255	R1 LED dimming
CH-12	G1 LED dimming	0255	G1 LED dimming
CH-13	B1 LED dimming	0255	B1 LED dimming
CH-14	W1 LED dimming	0255	W1 LED dimming
CH-203	R49 LED dimming	0255	R49 LED dimming
CH-204	G49 LED dimming	0255	G49 LED dimming
CH-205	B49 LED dimming	0255	B49 LED dimming
CH-206	W49 LED dimming	0255	W49 LED dimming

6. Shape





7. Trouble shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

- 1. Check the connection of power and main fuse.
- 2. Measure the mains voltage on the main connector.
- 3. Check the power on LED.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link

properly.

2. If the DMX LED is on and no response to the channel, check the address

settings and DMX polarity.

3. If you have intermittent DMX signal problems, check the pins on connectors or on

PCB of the unit or the previous one.

- 4. Try to use another DMX controller.
- 5. Check if the DMX cables run near or run alongside to high voltage cables that

may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.

2. The motor's drive IC on the PCB might be out of condition.

8. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.

• Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.