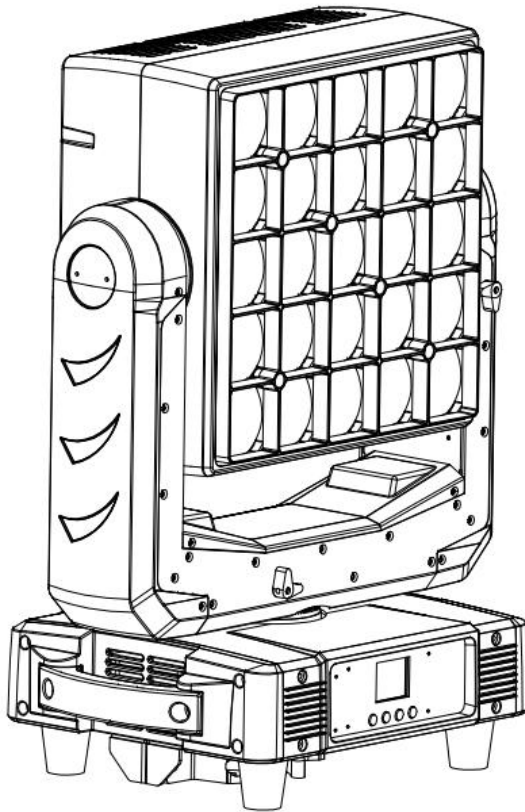


2540

25*40W matrix zoom wash light (With ArtNet)



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 not 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 50cm 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 T_a : 40°C. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C. DO 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.
- ⚠️ In 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 and has no one pass by or under it.

2. Technical Specifications

Light Source:

25x 40W LED 4in1 RGBW ;

Optical system:

Beam angle : 3.5° - 45° ;

Glass light guide + PMMA high-quality optical lens

Power Consumption: 900W; Power factor $PF \geq 0.95$

Power Voltage: AC 100-240V, 50/60Hz

Working temperature: $-10^{\circ}\text{C} \sim 45^{\circ}\text{C}$

Weight and dimensions:

Dimension: 420mm × 376mm × 560cm

Net Weight: 23.5Kgs

Control

Control Modes: DMX512, Artnet

DMX mode :20/24/34/134/ 111

Artnet mode : 111 channels

Control Modes: DMX512/master-Slave/Auto Run/Music/ArtNet

Pan/Tilt

Pan/Tilt: infinite rotation (using photoelectric reset system)

Tilt: 360 ° ,accuracy 0.86 ° / step, fine-tuning accuracy: 0.0034 °

Pan: 540 ° , accuracy 2.11 ° / step, fine-tuning accuracy: 0.008 ° ;

Construction

Display: 180° reversible 2.4-inch TFT color display(Chinese or English)

Data In/Out socket: 3-pin & 5-pin XLR sockets

Powercon in

Protection Rating: IP20

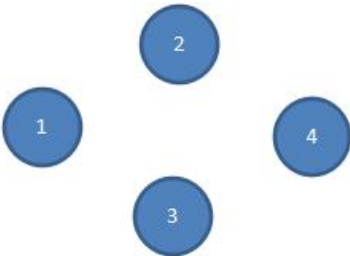
Features

Effect configuration: 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, ArtNet control , infinite Pan and tilt rotation.

3. How To Control The Unit



1-MENU 2-UP 3-DOWN 4-ENTER

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
- 4 . Press 'left' and 'right' to reverse the display

Menu	Pan Degree	1.540° ; 360°	X-axis running angle selection
	Mic Sense	001 - 100	Sound control sensitivity adjustment
	Pan Invert	1.NO 2.YES	X axis forward and reverse setting
	Tilt Invert	1.NO 2.YES	Y axis forward and reverse setting
	No Signal	1.Black out 2.Hold	
	Fan Set	1.Auto 2.Low 3.High	

	ArtNet Set	1.ArtNet Enable - 1.ON 2.OFF	
		2.Universe:0---255	
		3.IP Mode: A.2.X.X.X Auto B.10.X.X.X Auto C.Custom	
		Custom IP:192.168.000.001	
		Sub Net Mask: 255.000.000.000	
	Default	Yes	Factory reset
		No	
	Adjust	Pass Word: ****	Changing the value of Pan / Tilt / Focus can correct the angle; changing the value of R / G / B / W can adjust the white balance
		Pan: 0 - 255	
		Tilt: 0 - 255	
		Focus: 0 - 255	
		Red: 0 - 255	
		Green: 0 - 255	
		Blue: 0 - 255	
		White: 0 - 255	
Address	Setting from 001 - 512		
Channel	20 channels	Select channel mode	
	24 channels		
	34 channels		
	134 channels		
	111 Channels		
Inform	1.CH Value	Each channel show CH value	
	2.Temp ____℃	Show the temperature of led board	

	3.Soft V.XXX	Show the version number
	4. IP	002.050.164.014
	5. Mask	255.000.000.000
Mode	1.DMX 512	
	2.AUTO	
	3.SOUND	
	4.Manual	Pan : 0--255
		Tilt : 0--255
		Focus : 0--255
		Red : 0--255
		Green : 0--255
		Blue : 0--255
		White: 0--255
	5.Master/Alone	Strobe : 0-255
		Master
		Alone
Language	English	Choose a language
	Chinese	
Reset	1.YES 2.NO	
Display	1.YES 2.NO	

4.DMX Channel List

20CH

Channel	Function	Description	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 adjustment	0 --- 255
CH-7	White	White dimming	0 --- 255
CH-8	White adjustment	White adjustment	0 --- 255
CH-9	Color temperature	0--15	No
		16--35	R100%,G UP,B0%
		36--55	R DOWM,G100%,B0%
		56--75	R0%,G100%,B UP
		76--95	R0%,G DOWM,B100%
		96--115	R UP,G0%,B100%
		116--135	R100%,G0%,B DOWM
		136--155	R100%,G UP,B UP
		156--175	R DOWM,G DOWM,B100%
		176--195	R 100%,G 100%,B100%,W100%
		196--200	2800K
		201--205	3200K

CH-9	Color temperature	206--210	4000K
		211--215	4500K
		216--220	5000K
		221--225	5600K
		226--230	6500K
		231--235	7000K
		236--240	7500K
		241--255	8000K
CH-10	Macro color	0--9	No effect
		10--19	Macro color 1
		20--29	Macro color 2
		 (10 numbers and one type)	.....
		240--249	Macro color 24
		250--255	Macro color 25
CH-11	Dimming	0--255	from dark to light
CH-12	Dimming adjust	0--255	Dimming Control
CH-13	Strobe	0--3	Light up
		4--203	Synchronous strobe speed from slow to fast (1HZ-25HZ)
		204--255	Random strobe
CH-14	Pan	0--255	Pan control

CH-15	Tilt	0--255	Tilt control
CH-16	Pan infinite control	No effects	0----55
		Turn from slow to fast	56----155
		Reversal from slow to fast	156----255
CH-17	Tilt infinite control	No effects	0----55
		Turn from slow to fast	56----155
		Reversal from slow to fast	156----255
CH-18	Focus	Focus	0--255
CH-19	Dimming mode	Mode-1	0--49
		Mode-2	50--99
		Mode-3	100--149
		Mode-4	150--255
CH-20	Reset	No effects	0--250
		Reset within 5S	251--255

24 CH

Channel	Display	Function	Value
CH-1	Pan	0--255	Pan control
CH-2	Tilt	0--255	Tilt control
CH-3	Pan/Tilt speed	0--255	From fast to slow

CH-4	Pan infinite control		No effect	0---55	
			Go from slow to fast	56---155	
			Reverse from slow to fast	156---255	
CH-5	Tilt infinite control		No effect	0---55	
			Go from slow to fast	56---155	
			Reverse from slow to fast	156---255	
CH-6	Focus		0--255	from small to large	
CH-7	Positive	Dimming	0--255	from dark to light	
CH-8		Strobe	0--3	Light up	
			4--203	Synchronous strobe speed from slow to fast (1HZ-25HZ)	
			204--255	Random strobe	
CH-9		R dimming	0--255	from dark to light	
CH-10		G dimming	0--255	from dark to light	
CH-11		B dimming	0--255	from dark to light	
CH-12		W dimming	0--255	from dark to light	
				36--55	R DOWM,G100%,B0 %
				56--75	R0%,G100%,B UP

CH-13	Positive	Color temperatur e	76--95	R0%,G DOWM,B100%
			96--115	R UP,G0%,B100%
			116--135	R100%,G0%,B DOWM
			136--155	R100%,G UP,B UP
			156--175	R DOWM,G DOWM,B100%
			176--195	R100%,G100%,B10 0%,W100%
			196--200	2800K
			201--205	3200K
			206--210	4000K
			211--215	4500K
			216--220	5000K
			221--225	5600K
			226--230	6500K
			231--235	7000K
CH-13		Color temperatur e	236--240	7500K
			241--255	8000K
			0--9	No effect
			10--19	Macro color 1

CH-14	Positive	Macro color	20--29	Macro color 2
			 (10 numbers and one type)	.....
			240--249	Macro color 24
			250--255	Macro color 25
CH-15		Static pattern	0--9	No effect
			10--12	Monochrome pattern 1
			13--15	Monochrome pattern 2
			 (3 numbers and one type)	.....
			208--210	Monochrome pattern 67
			211--213	Mixed color pattern 1
			214--216	Mixed color pattern 2
CH-15		Static pattern	 (3 numbers and one type)	.....
			250--252	Mixed color pattern 14
			253--255	Mixed color pattern 15
			0--9	No effect
			10--14	Monochrome dynamic pattern 1

CH-16	Positive	Dynamic pattern	15--19	Monochrome dynamic pattern 2
			 (5 numbers and one type)	.....
			155--159	Monochrome dynamic pattern 30
			160--164	Mixed color dynamic pattern 1
			165--169	Mixed color dynamic pattern 2
			 (5 numbers and one type)	.....
			220--224	Mixed color dynamic pattern 13
			225--255	Mixed color dynamic pattern 14
CH-17	Positive	Pattern translation (with 16 channels)	0--255	Selecting a dynamic pattern scene
CH-18		Dynamic pattern speed (with 16 channels)	0--9	No effect
			10--132	Walking, fast to slow
			133--255	Go backwards, from slow to fast
CH-19		Positive	Background color R	0--255	from dark to light

CH-20		Background color G	0--255	from dark to light
CH-21		Background color B	0--255	from dark to light
CH-22		Background color W	0--255	from dark to light
CH-23	Dimming mode		0--49	Mode 1
			50--99	Mode 2
			100--149	Mode 3
			150--255	Mode 4
CH-24	Reset		0--250	No effect
			251--255	Reset within 5S

34 CH

Channel	Display	Function	Value
CH-1	Pan	0--255	Pan control
CH-2	Pan adjustment	0--255	Adjustment control
CH-3	Tilt	0--255	Tilt control
CH-4	Tilt adjustment	0--255	Adjustment control
CH-5	Pan/Tilt speed	0--255	From fast to slow

CH-6	Pan infinite control		No effect	0----55
			Go from slow to fast	56----155
			Reverse from slow to fast	156----255
CH-7	Tilt infinite control		No effect	0----55
			Go from slow to fast	56----155
			Reverse from slow to fast	156----255
CH-8	Focus		0--255	focusing
CH-9	Positive	Dimmer	0--255	from dark to light
CH-10		Dimming	0--255	fine-tuning control
CH-11		Strobe	0--3	Light up
			4--203	Synchronous strobe speed from slow to fast (1HZ-25HZ)
			204--255	Random strobe
CH-12		R	0--255	Red dimming
CH-13		R adjust	0--255	Red adjustment
CH-14		G	0--255	Green dimming
CH-15		G adjust	0--255	Green adjustment
CH-16		B	0--255	Blue dimming
CH-17		B dimming	0--255	Blue adjustment
CH-18		W	0--255	White dimming
CH-19		W dimming	0--255	Green adjustment

CH-20	Positive	Dimming mode	0--49	Mode 1
			50--99	Mode 2
			100--149	Mode 3
			150--255	Mode 4
CH-21		Color temperature	0--15	No
			16--35	R100%,G UP,B0%
			36--55	R DOWM,G100%,B0%
			56--75	R0%,G100%,B UP
			76--95	R0%,G DOWM,B100%
			96--115	R UP,G0%,B100%
			116--135	R100%,G0%,B DOWM
			136--155	R100%,G UP,B UP
			156--175	R DOWM,G DOWM,B100%
			176--195	R 100%,G 100%,B100%,W100%
			196--200	2800K
			201--205	3200K
	206--210		4000K	
	211--215		4500K	
	216--220		5000K	

CH-21	Positive	Color temperatur e	221--225	5600K
			226--230	6500K
			231--235	7000K
			236--240	7500K
			241--255	8000K
CH-22		Macro color	0--9	No effect
			10--19	Macro color 1
			20--29	Macro color 2
			 (10 numbers and one type)	.....
			240--249	Macro color 24
			250--255	Macro color 25
CH-23		Static pattern	0--9	No effect
			10--12	Monochrome pattern 1
			13--15	Monochrome pattern 2
			 (3 numbers and one type)	.....
			208--210	Monochrome pattern 67
CH-23		Static	211--213	Mixed color pattern 1
			214--216	Mixed color pattern 2

		pattern	 (3 numbers and one type)	.....
			250--252	Mixed color pattern 14
			253--255	Mixed color pattern 15
CH-24	Positive	Dynamic pattern	0--9	No effect
			10--14	Monochrome dynamic pattern 1
			15--19	Monochrome dynamic pattern 2
			 (5 numbers and one type)	.....
			155--159	Monochrome dynamic pattern 30
			160--164	Mixed color dynamic pattern 1
			165--169	Mixed color dynamic pattern 2
			 (5 numbers and one type)	.....
CH-24		Dynamic pattern	220--224	Mixed color dynamic pattern 13
			225--255	Mixed color dynamic pattern 14

CH-25	Positive	Pattern translation (with 24 channels)	0--255	Selecting a dynamic pattern scene
CH-26		Dynamic pattern speed (with 24 channels)	0--9	No effect
			10--132	Walking, fast to slow
			133--255	Go backwards, from slow to fast
CH-27		Pattern effect fade	0--255	Pattern effect fade
CH-28		Background total dimming	0--255	Background 0-100% dimming
CH-29		Background strobe	0--255	Background strobe
CH-30		Background color R	0--255	Pattern effect red
CH-31		Background color G	0--255	Pattern effect green
CH-32	Background color B	0--255	Pattern effect blue	
CH-33	Background color W	0--255	Pattern effect white	
CH-34	Reset	0--250	No effect	
		251--255	Reset within 5S	

134 CH

Channel	Display		Function	Value
CH-1	Pan		0--255	Pan control
CH-2	Pan adjustment		0--255	Adjustment control
CH-3	Tilt		0--255	Tilt control
CH-4	Tilt adjustment		0--255	Adjustment control
CH-5	Pan/Tilt speed		0--255	From fast to slow
CH-6	Pan infinite control		No effect	0----55
			Go from slow to fast	56----155
			Reverse from slow to fast	156----255
CH-7	Tilt infinite control		No effect	0----55
			Go from slow to fast	56----155
			Reverse from slow to fast	156----255
CH-8	Focus		0--255	focusing
CH-9	Positive	Dimmer	0--255	from dark to light
CH-10		Dimming	0--255	fine-tuning control
CH-11		Strobe	0--3	Light up
			4--203	Synchronous strobe speed from slow to fast (1HZ-25HZ)
			204--255	Random strobe
CH-12		R	0--255	Red dimming
CH-13		R adjust	0--255	Red adjustment

CH-14	Positive	G	0--255	Green dimming
CH-15		G adjust	0--255	Green adjustment
CH-16		B	0--255	Blue dimming
CH-17		B dimming	0--255	Blue adjustment
CH-18		W	0--255	White dimming
CH-19		W dimming	0--255	Green adjustment
CH-20		Dimming mode	0--49	Mode 1
			50--99	Mode 2
			100--149	Mode 3
			150--255	Mode 4
			0--15	No
			16--35	R100%,G UP,B0%
			36--55	R DOWM,G100%,B0%
	56--75		R0%,G100%,B UP	
	76--95		R0%,G DOWM,B100%	
	96--115		R UP,G0%,B100%	
	116--135		R100%,G0%,B DOWM	
	136--155		R100%,G UP,B UP	
	156--175		R DOWM,G DOWM,B100%	

CH-21	Positive	Color temperat ure	176--195	R 100%,G 100%,B100%,W100%
			196--200	2800K
			201--205	3200K
			206--210	4000K
			211--215	4500K
			216--220	5000K
			221--225	5600K
			226--230	6500K
			231--235	7000K
			236--240	7500K
			241--255	8000K
CH-22		Macro color	0--9	No effect
			10--19	Macro color 1
			20--29	Macro color 2
			 (10 numbers and one type)	.....
			240--249	Macro color 24
			250--255	Macro color 25
			0--9	No effect
			10--12	Monochrome pattern 1
			13--15	Monochrome pattern 2

CH-23	Positive	Static pattern	 (3 numbers and one type)	.....
			208--210	Monochrome pattern 67
			211--213	Mixed color pattern 1
			214--216	Mixed color pattern 2
			 (3 numbers and one type)	.....
			250--252	Mixed color pattern 14
			253--255	Mixed color pattern 15
			0--9	No effect
			10--14	Monochrome dynamic pattern 1
CH-24		Dynamic pattern	15--19	Monochrome dynamic pattern 2
			 (5 numbers and one type)	.....
			155--159	Monochrome dynamic pattern 30
			160--164	Mixed color dynamic pattern 1
			165--169	Mixed color dynamic pattern 2
			 (5 numbers and one type)	.....
			220--224	Mixed color dynamic pattern 13

	Positive		225--255	Mixed color dynamic pattern 14
CH-25		Pattern translation (with 24 channels)	0--255	Selecting a dynamic pattern scene
CH-26		Dynamic pattern speed (with 24 channels)	0--9	No effect
			10--132	Walking, fast to slow
			133--255	Go backwards, from slow to fast
CH-27		Pattern effect fade	0--255	Pattern effect fade
CH-28		Background total dimming	0--255	Background 0-100% dimming
CH-29		Background strobe	0--255	Background strobe
CH-30		Background color R	0--255	Pattern effect red
CH-31		Background color G	0--255	Pattern effect green
CH-32		Background color B	0--255	Pattern effect blue

CH-33	Positive	Background color W	0--255	Pattern effect white
CH-34	Reset		0--250	No effect
			251--255	Reset within 5S
CH-35	Positive	R1 LED dimming	0--255	R1 LED dimming
CH-36		G1 LED dimming	0--255	G1 LED dimming
CH-37		B1 LED dimming	0--255	B1 LED dimming
CH-38		W1 LED dimming	0--255	W1 LED dimming
.....				
CH-131		R25 LED dimming	0--255	R19 LED dimming
CH-132		G25 LED dimming	0--255	G19 LED dimming
CH-133		B25 LED dimming	0--255	B19 LED dimming
CH-134		W25 LED dimming	0--255	W19 LED dimming

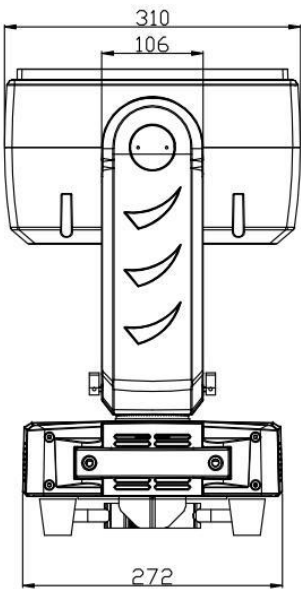
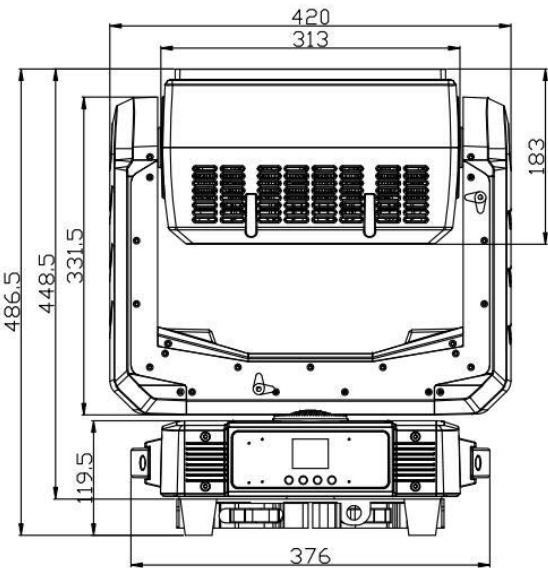
111 channel mode

(used with ArtNet, 1~11 channels are controlled by ordinary DMX512 signal, 12~111 channels are controlled by ArtNet signal)

Channel	Display		Function	Value
CH-1	Pan		0--255	Pan control
CH-2	Pan adjustment		0--255	Adjustment control
CH-3	Tilt		0--255	Tilt control
CH-4	Tilt adjustment		0--255	Adjustment control
CH-5	Pan/Tilt speed		0--255	From fast to slow
CH-6	Pan infinite control		No effect	0----55
			Go from slow to fast	56----155
			Reverse from slow to fast	156----255
CH-7	Tilt infinite control		No effect	0----55
			Go from slow to fast	56----155
			Reverse from slow to fast	156----255
CH-8	Focus		0--255	focusing
CH-9	Reset		0--250	No effect
			251--255	Reset within 5S
CH-10	Front side (controlled by ordinary DMX512)	Dimmer	0--255	from dark to light
CH-11		Strobe	0--3	Light up
			4--203	Synchronous strobe speed from slow to fast (1HZ-25HZ)

	signal)		204--255	Random strobe
CH-12	Front side (controlled by ArtNet signal)	R1 LED dimming	0--255	R1 LED dimming
CH-13		G1 LED dimming	0--255	G1 LED dimming
CH-14		B1 LED dimming	0--255	B1 LED dimming
CH-15		W1 LED dimming	0--255	W1 LED dimming
.....				
CH-108	Front side (controlled by ArtNet signal)	R25 LED dimming	0--255	R19 LED dimming
CH-109		G25 LED dimming	0--255	G19 LED dimming
CH-110		B25 LED dimming	0--255	B19 LED dimming
CH-111		W25 LED dimming	0--255	W19 LED dimming

5.Shape.



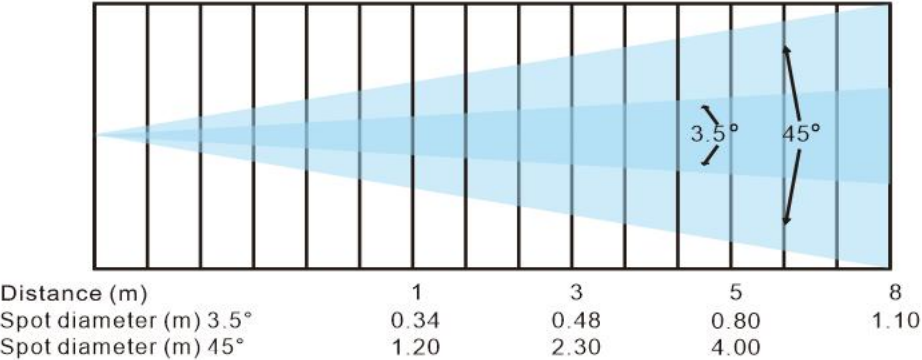
6.LUX Date

Beam Angle =3.5°

R lux	21000	14000	9450	4150
G lux	42300	30700	20500	9520
B lux	8860	6060	3890	1810
W lux	52200	36100	24800	11400
4in1 lux	113000	78200	54000	24800

Beam Angle =45°

R lux	8570	1190	418	178
G lux	17900	2650	991	430
B lux	3520	530	198	86.7
W lux	21300	3090	1150	508
4in1 lux	47200	6690	2560	1120



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.