

LED 19x20W
RGBW Bee Eye SW
Moving Head Light

Item Number: LL1920E

USER MANUAL



This user manual includes important information for installation and operation. Please read this user manual carefully to install, operate, and maintain the lighting safely and correctly. A verified technician should do the installation and operation.

Please carefully check for any damages caused by transportation.

Before delivery, this device has passed strict quality control and inspection. Please follow the user manual for proper operation. If this fixture is damaged due to operation error or disregard of this manual, the fixture will be out of warranty, and the manufacturer or dealer will not be held responsible.

Installation:

This unit is for indoor use only. Use only in a dry location. To prevent or reduce the risk of electrical shock or fire, do not expose to rain or moisture.

Maximum ambient temperature for operation is 104°F. Do not operate the unit at a higher ambient temperature as the surface temperature of the unit can reach up to 165°F. Do not touch the housing of the unit during operation as this could result in serious injury. Turn off the power and allow 15 minutes for the unit to cool down before handling. Do not open the unit within five minutes after switching off.

Keep the fixture at least 1.5ft. away from any combustible material, as it is not suitable for direct installation on these surfaces. The unit must be installed in a location with adequate ventilation, at least 20 inches from adjacent surfaces. Ensure that no ventilation slots are blocked.

We advise that an electrician confirms the safety of the electrical data prior to installation. Power off the fixture before installation or maintenance. Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

Rigging:

Only lift the unit by its base, not the head. The unit should be mounted via its screw holes on the bracket and firmly fixed to avoid vibration and slipping while operating.

The truss used for hanging this fixture must be able to hold 10 times the weight of this fixture without deformation one hour after installation. Always use a safety cable that can hold 12 times the weight of the unit. Do not stand directly under the fixture while installing, uninstalling or adjusting the fixture.

Product Specifications:

Voltage: 100-240V, 50/60HZ

Power Socket: PowerCon in/out

Power Consumption: 350W

Average lifespan: 50,000 hours

DMX Channel: 21/23/35/78/92/97/99 CH

Beam Angle: 5.8 - 55 degrees

Pixel Control

Pan: 540°/ 360°, Tilt: 270°

Pan/Tilt Resolution: 8/16 bit

Display: 180° reversible 1.8-inch TFT color display

Control Mode: DMX512/Primary-Secondary/Auto Run/Music

Strobe: 1-23Hz or random strobe

Dimming: 0% - 100%

DMX Connector: 3-pin XLR & 5-pin DMX input/output

IP Rating: IP20

Auto adjusting fan speed.

Display Menu:

MENU Key: Press to confirm selected functions.

UP Key: Press to go forward in selected functions.

DOWN Key: Press to go backward in selected functions.

ENTER Key: Press to confirm the selected functions.

Menu	Pan Degree	540 °, 2)360°	X-axis running angle selection
	Mic Sense	001 — 100	Sound sensitivity adjustment
	Language	English	Chinese
	No Signal	1.Black Out 2.Hold	Set the state when the machine has no signal input
	Fan Set	1.Auto 2. Low 3.High	Set fan speed
	Reset	Yes	No
	Default	Yes	No
	Adjust	Pass Word : ****	
		Pan	0 — 255
		Tilt	0 — 255
		Focus	0 — 255
		Rota	0 — 255
		Red	0 — 255
		Green	0 — 255
		Blue	0 — 255
		White	0 — 255
Address	Setting from 001 — 512		
			1.Yes

Reverse	Forward or reversed setting	Pan	2.No
		Tilt	1.Yes
			2.No
		Display	1.Yes
2.No			
Information		1.CH Value	Each channel show CH value
		2.Temp ____ °C	Show the temperature of IED board
Information		3.Soft V.XXX	Show the version number

Channel		21 channels	
		23 channels	
		35 channels	
		78 channels	
		92 channels	
		97 channels	
		99channels	
Mode		DMX 512	
		AUTO	
		SOUND	
Manual	Primary	Pan: 0—255	Manual Control
		Tilt: 0—255	
		Focus: 0—255	
		Rota: 0-255	
		Red: 0—255	
	Alone	Greend: 0—255	
		Blue: 0—255	
		White: 0—255	
		Strobe: 0-255	

DMX Channel List:**21 Channel Mode**

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	Color temperature	No	0-4
		From warm to cold	5-255
CH-10	Macro color	No	0-9
		Macro color 1	10-19
		Macro color 2	20-29
		 (10 numbers 1 macro color)	....
		Macro color 24	240-249
		Macro color 25	250-255
CH-11	Strobe	Turn on the light	0---3
		Synchro strobe speed slow to fast (1HZ-25HZ)	4-103
		Open	104-107
		Fast to slow	108-207
		Open	208-212
		Random strobe	213-251

		Open	252-255
CH-12	Dimmer	Dark to bright linear dimming	0 --- 255
CH-13	Dimmer adjust	Dimmer adjustment control	0 --- 255
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	Dimming Mode	Mode -1	0 --- 42
		Mode -2	43-47
		Mode -3	48-52
		Mode -4	53-57
CH-19	Reset	NO	0-250
		Reset within 5s	251-255
CH-20	Zoom	Zoom	0-255
CH-21	Lens rotation	0~60°	0-155
		Clockwise infinite rotation	156 – 205
		Counterclockwise rotation	206 – 255

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Channel	Display	Function	Value
CH-1	Pan	0 — 540°	0 --- 255
CH-2	Pan adjustment	16bit adjustment	0 --- 255
CH-3	Tilt	0 — 205°	0 --- 255
CH-4	Tilt adjustment	16bit adjustment	0 --- 255
CH-5	Pan/Tilt speed	Speed from fast to slow	0 --- 255

CH-6	Zoom	Angle from small to large	0 --- 255
CH-7	Lens rotation	0~60°	0-155
		Clockwise infinite rotation from fast to slow	156-205
		Counterclockwise rotation from slow to fast	206-255
CH-8	Dimmer	Dark to bright linear dimming	0 --- 255
CH-9	Strobe	Turn on the light	0---3
CH-9	Strobe	Synchro strobe speed From slow to fast (1HZ-25HZ)	4---103
		Open	104-107
		From fast to slow	108-207
		Open	208-212
		Random strobe	213-251
		Open	251-255
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	Color temperature	No	0 ---4
		Warm to cold	5—255
CH-15	Macro color	No	0—9
		Macro color 1	10—19
		Macro color 2	20—29
		(10 numbers 1 macro color)	....
		Macro color 24	240—249
		Macro color 25	250—255
CH-16	Static pattern	No	0—9

CH-16	Static pattern	Monochrome pattern 1	10—12
		Monochrome pattern 2	13—15
		(3 numbers 1 pattern)	.....
		Monochrome pattern 67	208—210
		Mixed color pattern 1	211—213
		Mixed color pattern 2	214—216
		(3 numbers 1 pattern)	....
		Mixed color pattern 14	250—252
		Mixed color pattern 15	253—255
CH-17	Dynamic pattern	NO	0—9
		Monochrome dynamic pattern 1	10—14
		Monochrome dynamic pattern 2	15—19
		(5 numbers 1 pattern)	.....
		Monochrome pattern 30	155—159
		Mixed color dynamic pattern 1	160—164
		Mixed color dynamic pattern 2	165—169
		(5 numbers 1 pattern)	.....
		Mixed color dynamic pattern 13	220—224
		Mixed color dynamic pattern 14	225—255
CH-18	Dynamic	Forward, from fast to slow (with 17Ch)	0—127
CH-18	pattern speed Dynamic pattern speed		
		Reverse, from slow to fast (with 17CH)	128—255
CH-19	Back color R	Dark to bright linear dimming	0-255
CH-20	Back color G	Dark to bright linear dimming	0-255
CH-21	Back color B	Dark to bright linear dimming	0-255

CH-22	Back color W	Dark to bright linear dimming	0-255
CH-23	Reset	NO	0-250
		Reset within 5s	251-255

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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	Color temperature	No	0 ---4
		From warm to cold	5--255
CH-10	Macro color	No	0--9
		Macro color 1	10--19
		Macro color 2	20--29
		(10 numbers 1 macro color)	....
		Macro color 24	240--249

		Macro color 25	250--255
CH-11	Strobe	Turn on the light	0---3
		Synchro strobe speed From slow to fast (1HZ-25HZ)	4---103
		Open	104-- 107
		From fast to slow	108--207
		Open	208-- 212
		Random strobe	212--251
		Open	251-- 255
CH-12	Dimmer	dark to bright linear dimming	0 --- 255
CH-13	Dimmer adjust	Dimmer adjustment control	0 --- 255
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	Dimming Mode	Mode -1	0 --- 42
		Mode -2	43-- 47
		Mode -3	48--52
		Mode -4	53--57
CH-19	Reset	NO	0-250
		Reset within 5s	251---255
CH-20	Zoom	Zoom	0-255
CH-21	Lens rotation	0~60°	0-155
		Clockwise infinite rotation	156-205
		Counterclockwise rotation	206-255

CH-22	Pattern rotation	NO	0--9
		Monochrome dynamic pattern 1	10--14
		Monochrome dynamic pattern 2	15--19
		(5 numbers 1 pattern)	.....
		Monochrome pattern 30	155--159
		Mixed color dynamic pattern 1	160--164
		Mixed color dynamic pattern 2	165--169
		(5 numbers 1 pattern)	.....
		Mixed color dynamic pattern 13	220--224
		Mixed color dynamic pattern 14	225--255
CH-23	Pattern effect speed	NO	0--9
		Forward, from fast to slow(with 22CH)	10--132
		Reverse, from slow to fast(with 22CH)	133--255
CH-24	Pattern effect fade	Pattern effect fade	0-255
CH-25	Pattern Back R	Pattern effect R	0-255

CH-26	Pattern Back G	Pattern effect G	0-255
CH-27	Pattern Back B	Pattern effect B	0-255
CH-28	Pattern Back	Pattern effect W	0-255
CH-29	Pattern dimming	Pattern 0-100% dimming	0-255
CH-30	Background dimming	Background 0-100% dimming	0-255
CH-31	Static	Static	0-255

CH-32	Pattern movement	Pattern movement (with 22CH)	0-255
CH-33	Prospects strobe	Prospects strobe	0-255
CH-34	Background strobe	Background strobe	0-255
CH-35	Background pattern selection	Background selection	0-255

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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	Color temperature	No	0 ---4
		From warm to cold	5–255
CH-10	Macro color	No	0–9
CH-10	Macro color	Macro color 1	10–19

		Macro color 2	20–29
		(10 numbers 1 macro color)	....
		Macro color 24	240–249
		Macro color 25	250–255
CH-11	Strobe	Turn on the light	0---3
		Synchro strobe speed slow to fast (1HZ-25HZ)	4---103
		Open	104-107
		From fast to slow	108-207
		Open	208-212
		Random strobe	213–251
		Open	251-55
CH-12	Dimmer	dark to bright linear dimming	0 --- 255
CH-13	Dimmer adjust	Dimmer adjustment control	0 --- 255
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	Dimming Mode	Mode -1	0 --- 42
CH-18	Dimming Mode	Mode -2	43 – 47
		Mode -3	48 – 52
		Mode -4	53 –57
CH-19	Reset	NO	0–250
		Reset within 5s	251---255

CH-20	Zoom	Zoom	0-255
CH-21	Lens rotation	0 – 60°	0-155
		Clockwise infinite rotation	156-205
		Counterclockwise rotation	206-255
CH-22	R1 LED dimming	R1 LED dimming	0-255
CH-23	G1 LED dimming	G1 LED dimming	0-255
CH-24	B1 LED dimming	B1 LED dimming	0-255
CH-25	R2 LED dimming	R2 LED dimming	0-255
CH-26	G2 LED dimming	G2 LED dimming	0-255
CH-27	B2 LED dimming	B2 LED dimming	0-255
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CH-76	R19 LED dimming	R19 LED dimming	0-255
CH-77	G19LED dimming	G19LED dimming	0-255
CH-78	B19LED dimming	B19LED dimming	0-255

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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	Color temperature	No	0 ---4
		From warm to cold	5--255
CH-10	Macro color	No	0--9
		Macro color 1	10--19
		Macro color 2	20--29
		(10 numbers 1 macro color)	....
		Macro color 24	240--249
		Macro color 25	250--255
CH-11	Strobe	Turn on the light	0---3
CH-11	Strobe	Synchro strobe speed slow to fast (1HZ-25HZ)	4---103
		Open	104-107
		From fast to slow	108-207
		Open	208-212
		Random strobe	212-251
		Open	251-255

CH-12	Dimmer	dark to bright linear dimming	0 --- 255
CH-13	Dimmer adjust	Dimmer adjustment control	0 --- 255
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	Dimming Mode	Mode -1	0 --- 42
		Mode -2	43-- 47
		Mode -3	48-- 52
		Mode -4	53-- 57
CH-19	Reset	NO	0-250
		Reset within 5s	251--255
CH-20	Zoom	Zoom	0-255
CH-21	Lens rotation	0~60°	0-155
		Clockwise infinite rotation	156-205
		Counterclockwise rotation	206-255
CH-22	Pattern rotation	NO	0--7
		Monochrome dynamic pattern 1	8
		Monochrome dynamic pattern 2	9
		(1numbers 1 pattern)	.....
		Monochrome pattern 30	37
		Mixed color dynamic pattern 1	38
		Mixed color dynamic pattern 2	39
		(1 umbers 1 pattern)	.....
		Mixed color dynamic pattern 13	50
		Mixed color dynamic pattern 14	51-255
CH-23	Pattern effect speed	NO	0--9

		Forward, from fast to slow (with 22CH)	10--132
		Reverse, from slow to fast(with 22CH)	133--255
CH-24	Pattern effect fade	Pattern effect fade	0-255
CH-25	Pattern Back R	Pattern effect R	0-255
CH-26	Pattern Back G	Pattern effect G	0-255
CH-27	Pattern Back B	Pattern effect B	0-255
CH-28	Pattern Back W	Pattern effect W	0-255
CH-29	Pattern dimming	Pattern 0-100% dimming	0-255
CH-30	Back Dimming	Background 0-100% dimming	0-255
CH-31	Pattern change	Pattern change control	0-255
CH-32	Pattern movement	Pattern movement(with 22CH)	0-255
CH-33	Prospects strobe	Prospects strobe	0-255
CH-34	Background strobe	Background strobe	0-255
CH-35	Background pattern selection	Background selection	0-255
CH-36	LED1 R	LED1 R dimming	0-255
CH-37	LED1 G	LED1 G dimming	0-255
CH-38	LED1 B	LED1 B dimming	0-255
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CH-90	LED19 R	LED 19 R dimming	0-255
CH-91	LED19 G	LED19 G dimming	0-255
CH-92	LED19 B	LED 19 B dimming	0-255

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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	Color temperature	No	0 ---4
		From warm to cold	5-255
CH-10	Macro color	No	0--9
		Macro color 1	10--19
		Macro color 2	20--29
		(10 numbers 1 macro color)	....
		Macro color 24	240--249
		Macro color 25	250--255
		Turn on the light	0---3
		Synchro strobe speed	
CH-11	Strobe	slow to fast (1HZ-25HZ)	4---103
		Open	104---107
		From fast to slow	108---207

		Open	208---212
		Random strobe	213---251
		Open	252---255
CH-12	Dimmer	dark to bright linear dimming	0 --- 255
CH-13	Dimmer adjust	Dimmer adjustment control	0 --- 255
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	Dimming Mode	Mode -1	0 --- 42
		Mode -2	43-- 47
		Mode -3	48--52
		Mode -4	53--57
CH-19	Reset	NO	0-250
		Reset within 5s	251---255
CH-20	Zoom	Zoom	0-255
CH-21	Lens rotation	0~60°	0-155
		Clockwise infinite rotation	156-205
		Counterclockwise rotation	206-255
CH-22	R1 LED dimming	R1 LED dimming	0-255
CH-23	G1 LED dimming	G1 LED dimming	0-255
CH-24	B1 LED dimming	B1 LED dimming	0-255
CH-25	W1 LED dimming	W1 LED dimming	0-255
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CH-94	R19 LED dimming	R19 LED dimming	0-255
CH-95	G19LED dimming	G19 LED dimming	0-255
CH-96	B19LED dimming	B19 LED dimming	0-255
CH-97	W19LED dimming	W19 LED dimming	0-255

99 Channel Mode

Channel	Display	Function	Value
CH-1	Pan	0-540°	0 --- 255
CH-2	Pan adjustment	16bit adjustment	0 --- 255
CH-3	Tilt	0-205°	0 --- 255
CH-4	Tilt adjustment	16bit adjustment	0 --- 255
CH-5	XY speed	Speed from fast to slow	0 --- 255
CH-6	Zoom	Angle from small to large	0 --- 255
CH-7	Lens rotation	0~60°	0-155
		Clockwise infinite rotation from fast to slow	156-205
		Counterclockwise rotation from slow to fast	206-255
CH-8	Dimmer	dark to bright linear dimming	0 --- 255
CH-9	Strobe	Turn on the light	0---3
		Synchro strobe speed From slow to fast (1HZ-25HZ)	4---103
		Open	104-107

		From fast to slow	108-207
		Open	208-212
		Random strobe	213-251
		Open	252-255
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	Color temperature	No	0 --4
		From warm to cold	251--255
CH-15	Macro color	No	0--9
		Macro color 1	10--19
		Macro color 2	20--29
		(10 numbers 1 macro color)	....
		Macro color 24	240--249
		Macro color 25	250--255
		No	0--9
		Monochrome pattern 1	10--12
CH-16	Static pattern	Monochrome pattern 2	13--15
		(3 numbers 1 pattern)	.....
		Monochrome pattern 67	208--210
		Mixed color pattern 1	211--213
		Mixed color pattern 2	214--216
		(3 numbers 1 pattern)	....
		Mixed color pattern 14	250--252

		Mixed color pattern 15	253--255
CH-17	Dynamic pattern	NO	0--9
		Monochrome dynamic pattern 1	10--14
		Monochrome dynamic pattern 2	15--19
		(5 numbers 1 pattern)	.....
		Monochrome pattern 30	155--159
		Mixed color dynamic pattern 1	160--164
		Mixed color dynamic pattern 2	165--169
		(5 numbers 1 pattern)	.....
		Mixed color dynamic pattern 13	220--224
		Mixed color dynamic pattern 14	225--255
CH-18	Dynamic pattern speed	Forward, from fast to slow (with 17CH)	0--127
		Reverse, from slow to fast (with 17CH)	128--255
CH-19	Back color R	Dark to bright linear dimming	0-255
CH-20	Back color G	Dark to bright linear dimming	0-255
CH-21	Back color B	Dark to bright linear dimming	0-255
CH-22	Back color W	Dark to bright linear dimming	0-255
CH-23	Reset	NO	0-250
		Reset within 5s	250-255
CH-24	R1 LED dimmer	R1 LED dimming	0-255
CH-25	G1LED dimmer	G1 LED dimming	0-255
CH-26	B1 LED dimmer	B1 LED dimming	0-255
CH-27	W1LED dimmer	W1 LED dimming	0-255
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CH-96	R19 LED dimmer	R19 LED dimming	0-255

CH-97	G19 LED dimmer	G19 LED dimming	0-255
CH-98	B19 LED dimmer	B19 LED dimming	0-255
CH-99	W19 LED dimmer	W19 LED dimming	0-255

Symbol Instruction on Fixture:



CE certificate



RoHS certificate