

Professional Entertainment Technology

Owner's Manual

HL-X3



STAIRVILLE

Congratulations on your purchase of this unit.
To get the most from your equipment you must read all of this manual before using it first time.

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Safety Instructions

You have to carefully read the instruction, which includes important information about the installation, usage and maintenance.



- 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. Never connect the mains power until the unit is unpacked.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- Please do not link the power before the installation. When you make sure that the earth link before use.
- 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 is no flammable materials close to the unit while operating as it is fire hazard.
- The standard temperature is up to +40°C, the standard humidity is 0~95%. If you use it out of this range, the fixture lifespan will be shorten accordingly.
- Unit surface temperature may become very high. Don't 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.
- Please kindly be informed that the chemical material is very easy to destroy the cover of the fixture.
- Please do not take apart of the fixture. If you met the problem, please call the technician for the maintain and service.

- Please do not change the transformer without our approval.

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.

Caution

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

Specifications

Input Voltage:	AC85V~AC264V 60/50HZ
Power:	180W
Fuse:	2A/250V
Light Source:	Red 21pcs 3W Green 21pcs 3W Blue 21pcs 3W
Luminous flux:	2472LM
Beam angle:.....	horizontal 32°; vertical 24°
Net Weight:.....	7 KGs
Size:	L366xW225xH420mm
DMX control:	5 Channels
Work mode:	Dmx, Auto, Sound active, Master/Slave Linking

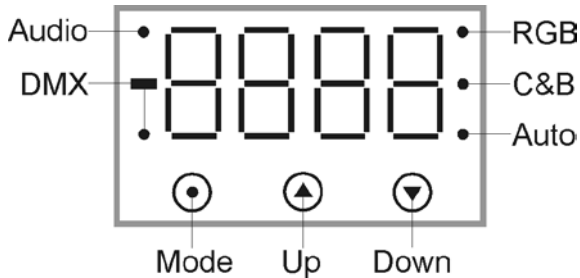
Brief introduction

HL-X3 is a RGB LED wash light with high power LEDs, can work in Master/ Slave mode and DMX mode.

Master mode: AUTO, AUDIO

Slave mode: RGB, C&B, RGB & Stand Alone

Display board



Operation:

Check the input voltage and plug to correct power, after automatic check by the system the LCD shows: A:XXX (receiving Address of DMX mode) or d: XXX (brightness data in master mode) and some relevant mode (the same as previous ones when turn off the unit last time).

DMX Mode

Plug 3P XLR signal cord to DMX source, LED indicator flashes quickly when there is DMX signal, otherwise off.

RGB Mode: RGB indicator turns on and starts to deal with signal for 5 channels. First channel is for Red brightness, the second channel is for Green brightness, the third channel is for Blue brightness, the fourth channel is for generally dimming of whole fixture, the fifth channel is for flash speed.

C&B Mode: C&B Indicator turns on and starts to deal with data for 2 channels. First channel is for color selection.(Refer to DMX color chart), the second channel is for dimming output of whole fixture.

RGB & Stand Alone Mode: RGB & CB indicator turn on and deal with the data of 5 channels. The function chart are as following:

The first channel	The second channel	The third channel	The forth channel	MODE	
DMX:0--29	Dimming	Dimming	Dimming	The fifth channel	
				RGB	flash speed
DMX: 30--94	Dimming	Fading	Speeding	Auto (8 Patterns)	
DMX: 95--159	Dimming	Fading		Sound active (8 Patterns)	
DMX: 160--184	Dimming	Fading	Speeding	Chase	
DMX: 185--209	Dimming	Fading		Chase to Sound	
DMX: 210--234	Dimming	Fading	Speeding	Run built-in 40 colors automatically	
DMX: 235--255	Dimming	Fading		Run built-in 40 colors to sound	

Master/ Slave mode. Connect each fixture with 3P XLR cord, set up each unit the same mode (RGB or C&B or RGB & Stand-Alone) and same receiving address (ranging from 001-511), they will work synchronously after connected to DMX source.

Master mode:

AUTO mode: Run built-in 40 colors automatically, the relevant data is as following:

d:XXX (000-100%): dimming of whole unit.

F:XXX (000-100): fading from 0-60secs.

S:XXX (001-100): speeding ranging from 50msec/step to 1min/step.

AUDIO mode: Run built-in 40 colors to Audio, Sound sensitivities are adjustable, the relevant data is as following:

d:XXX (000-100%): Dimming of whole unit.

F:XXX (000-100): Fading ranging from 0 to 60secs.

Master/ Slave: Connect each unit with 3P XLR cord and set up one unit as a master and others are under RGB mode and receiving address as 001, they will work synchronously when plug to power.

Function Introduction of Buttons

MODE: Select modes. Press “MODE” more than 1 second to change mode, if hold “MODE” more than 1.5seconds, the mode will change to another each 1.5 second (cycles among RGB, C&B, RGB& Stand-Alone, Auto, Audio), the relevant indicator turns on;

- In DMX mode, no function to press “MODE” less than 1 second.

- In Master mode, press “MODE” less than 1 second to choose function for data under this master mode!

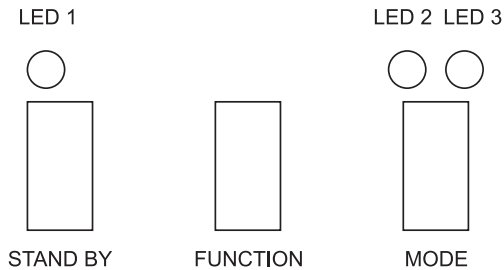
UP: press “UP” once the data increase 1, press and hold “UP” more than 2 seconds, the data increases 1 speedily, when the data goes to the maximum, one more press will lead to minimal data.

DOWN: press once the data decrease 1, press and hold “DOWN” more than 2 seconds, the data decreases speedily, when the data goes to the minimal, one more press will lead to maximum data.

Functions Chart

Mode	UP (SW3)	DOWN (SW2)	MODE (SW1)		Data
			Within 1sec	More than 1sec	
RGB	+1	-1	No	Mode change	A:xxx
C&B	+1	-1	No	Mode change	A:xxx
RGB&STANDALONE	+1	-1	No	Mode change	A:xxx
AUTO	+1	-1	Set up data	Mode change	d:xxx F:xxx S:xxx
AUDIO	+1	-1	Set up data	Mode change	d:xxx F:xxx

Foot Switch Control: (Valid only under Master/ Slave mode)



STAND-BY	MODE	FUNCTION
BLACKOUT	AUTO: LED2 & LED3 OFF	Run built-in automatically, vain to press FUN
	AUDIO: LED2 OFF LED3 ON	Run built-in to Audio, vain to press FUN
	MANUAL: LED2 ON LED3 OFF	FULL/CB: Press “FUN” and hold it to turn on FULL: Press “FUN” once turn on CB.
	LATCH: LED2 ON LED3 ON	FULL/CB: Press “FUN” and hold it to turn on CB, loose “FUN” to turns on FULL

DMX Color Chart

DMX	RED	GREEN	BLUE	COLOR
Algorithm	100%	100%	100%	
0	0	0	0	BLACK
1-2	100	0	0	RED
3-33	100	(N-2)*3	0	*
34	100	100	0	GREEN & RED
35-65	100-(N-34)*3	100	0	*
66-69	0	100	0	GREEN
70-100	0	100	(N-69)*3	*
101	0	100	100	BLUE & GREEN
102-132	0	100-(N-101)*3	100	*
133-136	0	0	100	BLUE
137-167	(N-136)*3	0	100	*
168	100	0	100	BLUE & RED
169-199	100	0	100-(N-168)*3	*
200-206	100	(N-199)*6	(N-199)*12	*
207	100	50	100	*
208-210	100-(N-207)*12	50+(N-207)*12	100	*
211	50	100	100	*
212-215	50-(N-211)*6	100	100-(N-211)*12	*
216-218	25-(N-215)*6	100	50-(N-215)*6	*
219-222	(N-217)*6	100	25-(N-219)*6	*
223-225	38+(N-223)*6	100	(N-221)*6	*
226-228	50+(N-225)*12	100	25+(N-225)*6	*
229	100	100	50	*
230-232	100	100-(N-229)*12	50+(N-229)*12	*
233	100	50	100	*
234-236	100-(N-233)*12	50-(N-233)*6	100	*
237	50	25	100	*
238-240	50-(N-237)*6	25-(N-237)*6	100	*
241-244	25-(N-241)*6	(N-239)*6	100	*
245-247	(N-243)*6	(N-239)*6	100	*
248-251	25+(N-247)*6	50+(N-247)*12	100	*
252-254	50+(N-251)*12	100	100	*
255	100	100	100	WHITE

Remarks:

1. "N" means DMX data (000-255). "*" means it is hard to name the color exactly!

2. If N=239, then RED=50-(239-237)*6=38%

GREEN=25-(239-237)*6=13%

BLUE=100%

Master Color Chart (When d:xxx=d:100)

NO.	RED(%)	GREEN(%)	BLUE(%)	RUN EACH COLOR CIRCULARLY	NO.	RED(%)	GREEN(%)	BLUE(%)
1	0	100	0		21	100	0	20
2	0	0	100		22	0	75	100
3	100	0	0		23	0	40	100
4	100	0	100		24	0	15	100
5	100	100	0		25	50	100	0
6	0	100	100		26	25	0	100
7	75	100	0		27	0	100	25
8	40	100	0		28	100	0	50
9	15	100	0		29	0	25	100
10	100	0	75		30	100	0	50
11	100	0	40		31	25	100	0
12	100	0	15		32	50	0	100
13	75	0	100		33	100	0	25
14	40	0	100		34	0	100	50
15	15	0	100		35	100	0	25
16	0	100	75		36	0	50	100
17	0	100	40		37	100	50	100
1018	0	100	15		38	50	100	100
19	100	0	80		39	100	100	50
20	100	0	50	40	100	100	100	

When d:xxx, the color brightness is (color chart)*xxx%.

For example: d:xxx=d:085, then it is at step 13, then:

RED BRIGHTNESS: 75%*85%≈64%

GREEN BRIGHTNESS: 0%*85%=0%

BLUE BRIGHTNESS: 100%*85%=85%

COLOR CHART

NO	RED(%)	GREEN(%)	BLUE(%)		NO	RED(%)	GREEN(%)	BLUE(%)
1	0	0	0		34	100	100	100
2	3	3	3		33	96	96	96
3	6	6	6		32	93	93	93
4	9	9	9		31	90	90	90
5	12	12	12		30	87	87	87
6	15	15	15		29	84	84	84
7	18	18	18		28	81	81	81
8	21	21	21		27	78	78	78
19	24	24	24		26	75	75	75
10	27	27	27		25	72	72	72
11	30	30	30		24	69	69	69
12	33	33	33		23	66	66	66
13	36	36	36		22	63	63	63
14	39	39	39		21	60	60	60
15	42	42	42		20	57	57	57
16	45	45	45		19	54	54	54
17	48	48	48		18	51	51	51

Disposal



Do not dispose of the device at the end of his operating life in your normal domestic waste. This device is subject to the European Guidelines 2002/96/EC.

- Have the product disposed of by a professional disposal company or by your communal disposal facility.
- Observe the currently applicable regulations. In case of doubt contact your disposal facility.
- Dispose of packaging materials in an environmentally responsible manner.



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