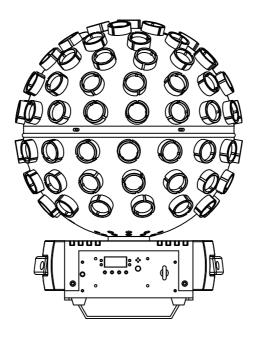


Starburst KML401



Version 1.0



Unpacking Instructions

Read Manual before Operation

Dear user.

Thanks for choosing our LED device.

Before operating this device, please read this manual thoroughly, and retain it for future reference.

Warning Data

Please note the warnings in bold which will ensure the safe and smooth operation. These warnings are important.



Attention! Indicates a skill or other useful information for special situations.



Important! Indicates important information to protect personnel from incident or injury.



Caution! Prevent damage or injury from incorrect operation.

Warning!

Shields, lenses or screens should be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches.

The lamps should be changed if it they have become damaged or thermally deformed.

Unpacking Instructions

Carefully unpack the carton, checking contents to ensure that all parts are in good condition. Inform the shipper immediately and retain packing material for inspection if any parts are damaged Keeping packing materials as evidence for shipper's confirmation.



Attention!

This unit is in perfect condition before delivery, please check all accessories when unpacking the unit. User should follow this user manual to operate this unit, and make sure that you are clear on all laser safety information and unit operation before powering it on.

Any wrong operation will make this unit out of warranty.

Carefully moving after receiving it, checking whether there is any damage from shipping, and all the accessories in it.

NAME	QTY
LED system	1
Power Cord	1
User manual	1
Packing Case	1

Safety Instructions

Safety Instructions

A To protect the environment, please try to recycle the packing material as much as possible.

The Starburst is for indoor use only, IP20. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other fluids, or metallic objects



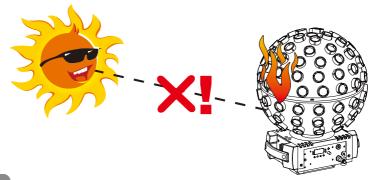
Don't throw this product away just as general trash, please deal with the product and follow the abandon electronic product regulation in your country.

(]0.2mf Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 20cm from surrounding walls

- ◆ To avoid condensation to be formed inside, allow this unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condensation sometimes prevents the unit from working at full performance or may even cause damages.
- Don't cover any ventilation openings as this may result in overheating.
- Don't install it on flammable object.
- Don not use it when maximum ambient temperature is higher than 40 degree,
- Unplug the unit when it is not used for a longer time or before replacing the bulb.
- Don't open the top cover to avoid unit damage.
- Please use the original packing when the device is to be transported.



Never expose the lens to direct sunlight, even for a short period, This may damage the light effect or even cause fire!



Safety Warnings

- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect the product from the power source before cleaning or replacing the fuse.
- Avoid direct eye exposure to the light source while the product is on.
- Make sure the power cord is not crimped or damaged.
- Never disconnect the product from power by pulling or tugging on the cord.
- If mounting the product overhead, always secure to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the product when operating.
- Do not touch the product's housing when operating because it may be very hot.

Keep this User Manual for future use. If you sell the product to another user, be sure to give this document to the next owner.

Overhead Rigging

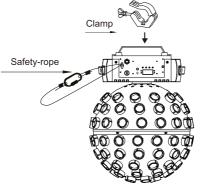


Attention! The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and /or damage to property. Overhead rigging required extensive experience! Working load limits should be respected, Certified installation materials should be used, the installed device should be inspected regularly for safety.

- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the fixture in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed at least 20cm from surrounding walls
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- The device should be well fixed; a free swinging mounting is dangerous and may not be considered!
- Do not cover any ventilation opening as this may result in overheating
- Before the first time use, it must be inspected by professional staff to make sure safety, inspection regularly every year.

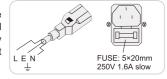


Before rigging make sure that installation area can hold the 10 times weight of device. Using the steel rope which can hold 12 times weight of device, through the eye-bolt for assisting hang installment.



AC Power

Please use the attached power, note that power voltage and frequency are the same as the marked voltage and frequency of device when connecting power. Every device's power should be connected separately, so that device can be controlled individually.



Cable spec .:

Cable(EU)	Cable(US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Yellow/Green	Earth	=

Product Installation / Remote operation instruction

DMX-512 connection

Connection between lights and DMX must use a shielded cable diameter more than 0.5mm. Please use the attached 3 pin XLR plug/socket to connect the DMX output/input interface. The connection between socket and cable as below(note the plug/socket's 3 pin number and position).

DMX-output DMX-input
XLR mounting-sockets(rear view):

1-Shield
2-Shield(-)
3-Shield(+)

- Note, XLR plug/socket's 3pin can not be touched by inner hull, connection between pins is not allowed. Except above connection, XLR plug/socket can not be connected with XLR control line. Device receives international standard DMX512(1990) control signal.
- When using standard DMX512 control signal, the last device's output interface must be connected to a DMX plug. This plug is putting a 120 ohm resistance between "canon" plug's 2 pin and 3 pin. Showing as below pic. Sticking this plug into the last device's signal output interface, it will avoid the interference during the process of signal transmission.



Remote controller

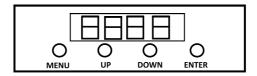


Key	Funntion	Description	
OMOFF	ON/OFF	Turn ON/OFF lights outputs	
NJ10	Auto Mixed shows	Auto mixed shows for P01 - P05;	
MUSIC	Sound Mixed shows	Sound mixed shows for snd1-snd3	
A	adjust speed	In auto mode, use +, - to adjust the program speed, In colour mode, use +, - to adjust motor speed	
0	Pause	To pause the color change effect	
0~9	colour choose	choose different colour	
	Programme speed	Programme speed is configured (left arrow = slower, right arrow = faster).	

Operation instructions of the button menu

Button Function

Button	Function
MENU	Select mode and return to the previous menu
ENTER	Go to the next level of the menu
UP	navigates upwards through the menu list and increases the numeric value when in a function
DOWN	navigates downwards through the menu list and decreases the numeric value when in a function



MENU instruction

3CH	d001-d510	DMX & master and sla	ve mode			
9CH	d001-d504					
19CH	d001-d494					
C	C001 ?C023	The program is shown	in the table below (C), the Motor speed is			
		controlled by S and the	ne direction is left rotation			
P	P1	P1 LED show 1	When the speed is greater than 90, the			
	P2	P2 LED show 2	Motor direction is not rotated according to			
	P3	P3 LED show 3	the original program, and it becomes the			
	P4	P4 gradient show 1	automatic mode (automatic reversing in 15			
	P5	P5 gradient show 2	seconds).			
S	S001-S100	auto program speed (slow to fast)				
Snd	Snd1	S1 LED show 1	In the music control, the Motor direction is			
	Snd2	S2 LED show 2	auto mode (auto reversing in 15 seconds)			
	Snd3	S3 LED show 3				
U	R000-R255	(Red , 0-100% PWM)				
	G000-G255	(green 0-100% PWM)				
	B000-B255	(blue 0-100% PWM)				
	W000-W255	(white 0-100% PWM)				
	S 000-S100	(LED strobe slow to fast 0.3-20HZ)				
	DI- L (left rotate)	Motor rotation direction				
	DI- R (right rotate)					
	M000-M100	Motor speed (M000 = stop/M001-M100 slow to fast)				
SET	ON (IR ON)	IR remote on/off switch				
	OFF (IR OFF)					

Operation instructions of the button menu

LED divided into three areas LED1 , LED2 and LED3

C						
program number	LED1	LED2	LED3			
C1	Red	Red	Red			
C2	Green	Green	Green			
C3	Blue	Blue	Blue			
C4	White	White	White			
C5	Red	Green	Blue			
C6	Red	Green	Blue			
C7	Red	Blue	White			
C8	Green	Blue	white			
C9	Red Green	Red Blue	Red White			
C10	Green Red	Green Blue	Green White			
C11	Blue Red	Blue Green	Blue White			
C12	White Red	White Green	White Blue			
C13	Red Green	Red Green	Red Green			
C14	Red Blue	Red Blue	Red Blue			
C15	Red White	Red White	Red White			
C16	Green Blue	Green Blue	Green Blue			
C17	Green White	Green White	Green White			
C18	Blue White	Blue White	Blue White			
C19	Red Green Blue	Red Green Blue	Red Green Blue			
C20	Red Green White	Red Green White	Red Green White			
C21	Green Blue White	Green Blue White	Green Blue White			
C22	Red Green Blue	Green Blue White	Red Green White			
C23	Red Green Blue White	Red Green Blue White	Red Green Blue White			

DMX channel instruction

3CH						
		000-005		Black Out		
			LED1	LED2	LED3	
		006-013	Red	Red	Red	
		014-022	Green	Green	Green	
		023-031	Blue	Blue	Blue	
		032-040	White	White	White	
		041-049	Red	Green	Blue	
		050-058	Red	Green	White	
		059-067	Red	Blue	White	
		068-076	Green	Blue	White	
		077-085	Red Green	Red Blue	Red White	
		086-094	Green Red	Green Blue	Green White	
Static		095-103	Blue Red	Blue Green	Blue White	
Otatio		104-112	White Red	White Green	White Blue	
		113-121	Red Green	Red Green	Red Green	
	1CH	122-130	Red Blue	Red Blue	Red Blue	
		131-139			Red White	
		140-148			Green Blue	
		149-157	149-157 Green White Green White		Green White	
		158-166	Blue White	Blue White	Blue White	
		167-175	Red Green Blue	Red Green Blue	Red Green Blue	
		176-184	Red Green White	Red Green White	Red Green White	
		185-193	Green Blue White	Green Blue White	Green Blue White	
		194-202	Red Green Blue	Green Blue White	Red Green White	
			Red Green Blue	Red Green Blue	Red Green Blue	
		203-211	White	White	White	
		212-220		P1/S1		
Auto and sound		221-229		P2/S2		
Programs		230-238		P3/S3 P4/S3		
		239-247		P5/S3		
Program speed		248-255				
when channel 1 is	Program speed 000-250 Speed slow to fast hen channel 1 is 2CH					
between 212-255	2011	251-255		Sound		
		0		Stop		
	001:	001-127		Rotate left, slow to fast		
Motor	3CH	128		Stop		
		129-255		Rotate right, slow to fast		

		9Cł	1				
(LED1&LED2&LED3)	&LED3) 1CH 000-255 Red , 0-100% PWM						
	2 CH	000-255	G	reen , 0-100% PW	/M		
	3 CH	000255	E	Blue , 0-100% PWI	M		
	4 CH	000-255		W , 0-100% PWM			
	5 CH	000-005	No Strobe				
		006-250		Strobe slow to fast	t		
		251-255		Sound			
Motor	6 CH	000		Stop			
		001-127	Ro	otate left, slow to fa	ast		
		128		Stop			
		129-255	Ro	tate right, slow to f	ast		
		000-005	LED1	LED2	LED3		
		006-013	Red	Red	Red		
		014-022	Green	Green	Green		
		023-031	Blue	Blue	Blue		
		032-040	White	White	White		
		041-049	Red	Green	Blue		
		050-058	Red	Green	white		
		059-067	Red	Blue	White		
		068-076	Green	Blue	White		
		077-085	Red Green	Red Blue	Red White		
		086-094	Green Red	Green Blue	Green White		
		095-103	Blue Red	Blue Green	Blue White		
		104-112	White Red	White Green	White Blue		
		113-121	Red Green	Red Green	Red Green		
Static		122-130	Red Blue	Red Blue	Red Blue		
		131-139	RedWhite	Red White	Red White		
	7CH	140-148	Green Blue	Green Blue	Green Blue		
	7011	149-157	Green White	Green White	Green White		
		158-166	Blue White	Blue White	Blue White		
			Red Green	Red Green	Red Green		
		167-175	Blue	Blue	Blue		
			Red Green	Red Green	Red Green		
		176-184	White	White	White		
			Green Blue	Green Blue	Green Blue		
		185-193	White	White	White		
			Red Green	Green Blue	Red Green		
		194-202	Blue	White	White		
			Red Green	Red Green	Red Green		
		203-211	Blue White	Blue White	Blue White		
		212-220		P1/S1			
		221-229		P2/S2			
Auto and sound Programs		230-238		P3/S3			
		239-247	P4/S3				
		248-255		P5/S3			
Program speed when	8CH	000-250		Speed slow to fas	t		

channel 7 is between 212-255		251-255	Sound
Motor		0	Stop
	9CH	001-127	Rotate left, slow to fast
		128	Stop
		129-255	Rotate right, slow to fast

19Ch								
(LED1)	(LED1) 1CH 000-255 Red , 0-100% PWM							
(=== :)	2 CH			Green , 0-100% PW				
	3 CH	000-255 000-255		Blue , 0-100% PWM				
	4 CH	000-255	,					
	5 CH	000-005						
	0 011	006-250 Strobe slow to fast						
		251-255		Sound	•			
(LED2)	6CH	000-255		Red , 0-100% PWN	1			
()	7 CH	000-255		Green , 0-100% PW				
	8 CH	000-255		Blue , 0-100% PWN				
	9 CH	000-255		w . 0-100% PWM				
	10 CH	000-005		No Strobe				
		006-250		Strobe slow to fast				
		251-255		Sound	•			
(LED3)	11CH	000-255		Red . 0-100% PWN	1			
,	12 CH	000-255		Green . 0-100% PW				
	13 CH	000-255		Blue , 0-100% PWM				
	14 CH	000-255		w . 0-100% PWM				
	15 CH	000-005		No Strobe				
		006-250	Strobe slow to fast					
		251-255						
Motor	16 CH	000		Stop				
		001-127		Rotate left, slow to fas	st			
		128		Stop				
		129-255	F	Rotate right, slow to fa	st			
		000-005		Black Out				
			LED1	LED2	LED3			
		006-013	Red	Red	Red			
		014-022	Green	Green	Green			
		023-031	Blue	Blue	Blue			
Static	17CH	032-040	White	White	White			
	1/68	041-049	Red	Green	Blue			
		050-058	Red	Green	White			
		059-067	Red	Blue	White			
		068-076	Green	Blue	White			
		077-085	Red Green	Red Blue	Red White			
		086-094	Green Read	Green Blue	Green White			

		T	T	1	
	095-103	Blue Red	Blue Green	Blue White	
	104-112	White Red	White Green	White Blue	
	113-121	Red Green	Red Green	Red Green	
	122-130	Red Blue	Red Blue	Red Blue	
	131-139	Red White	Red White	Red White	
	140-148	Green Blue	Green Blue	Green Blue	
	149-157	Green White	Green White	Green White	
	158-166	Blue White	Blue White	Blue White	
	167-175	Red Green Blue	Red Green Blue	Red Green Blue	
	176-184	Red Green White	Red Green White	Red Green White	
	185-193	Green Blue White	Green Blue White	Green Blue White	
	194-202	Red Green Blue	Green Blue White	Red Green White	
		Red Green Blue	Red Green Blue	Red Green Blue	
	203-211	White	White	White	
	212-220	P1/S1			
	221-229		P2/S2		
	230-238		P3/S3		
	239-247		P4/S3		
	248-255	P5/S3			
1000	000-250	Speed slow to fast			
10011	251-255	Sound			
		Stop			
40011	001-127		Rotate left, slow to fas	st	
19CH	128		Stop		
	129-255	Rotate right, slow to fast			
	18CH	113-121 122-130 131-139 140-148 149-157 158-166 167-175 176-184 185-193 194-202 203-211 212-220 221-229 230-238 239-247 248-255 000-250 18CH 19CH 19CH 113-121 112-13-13-13-13-13-13-13-13-13-13-13-13-13-	104-112 White Red 113-121 Red Green 122-130 Red Blue 131-139 Red White 140-148 Green Blue 149-157 Green White 167-175 Red Green Blue 176-184 Red Green Blue 176-184 Red Green Blue White 185-193 Green Blue White 194-202 Red Green Blue 203-211 White 212-220 221-229 230-238 239-247 248-255 18CH 19CH 19CH 19CH 100-127 128	104-112 White Red White Green 113-121 Red Green Red Green 122-130 Red Blue Red Blue 131-139 Red White Red White 140-148 Green Blue Green Blue 149-157 Green White Green White 158-166 Blue White Blue White 167-175 Red Green Blue Red Green Blue 176-184 Red Green Blue Green Blue White 185-193 Green Blue White Green Blue White 194-202 Red Green Blue Green Blue White 194-202 Red Green Blue Green Blue White 194-202 Red Green Blue Green Blue White 121-220 P1/S1 221-229 P2/S2 230-238 P3/S3 239-247 P4/S3 248-255 P5/S3 18CH 18CH 19CH 19CH 19CH 19CH 19CH 19CH 10CH 10CH 10CH 10CH 10CH 10CH 10CH 10	

Specification instructions

Product type: KML401 STARBURST

Colour spectrum: RGBW

LED type: 5 LEDs (3 segments controllable via DMX)

LED type: 8W 4-in-1 LED

DMX input: 3-pin male XLR

DMX output: 3-pin female XLR

DMX functions: 3-channel, 9-channel, 19-channel

Standalone functions: Auto, sound, master/slave,

DMX512, IR remote control

Control system: DMX512, IR remote control Operating voltage: 100-240 V AC/50-60 Hz

Power consumption: 50 W

Fuse: T1.6AL/250 V

Dimensions: 390 x 320 x 320 mm

Weight: 3.9 kg



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