

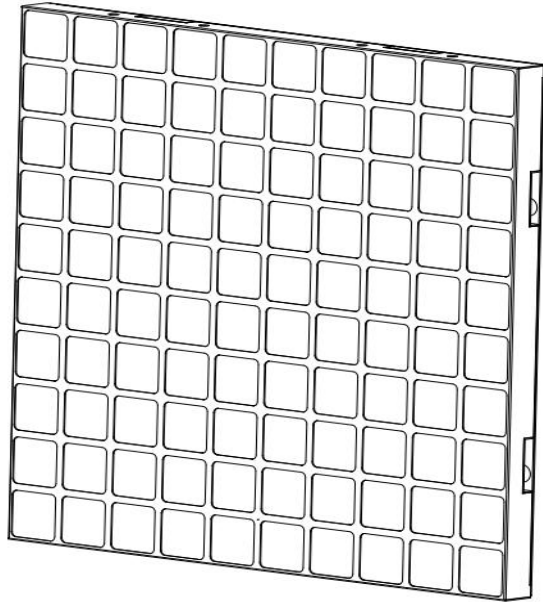
MS-MTX100-RGB

100pcs SMD Matrix Lights

User Manual



(SMD RGB)



Please read this manual before use



I . Unpacking Inspection:

No.	Item Name	Qty	Unit
1	100pcs SMD Matrix Lights	1	Set
2	0.75squ 1.5m power cord with blue head	1	Piece
3	User Manual	1	Piece
4	Light hook (optional with models)	Optional parts	
5	Safety Rope		
6	DMX Signal Wire		

★For the sake of safety and according to the terms and conditions, unauthorized reorganization or modification of this product is not allowed. Please note that damage to the product due to improper use is not covered by our warranty. Moreover, unprofessional operation may cause short circuit, burn or electric shock, etc.

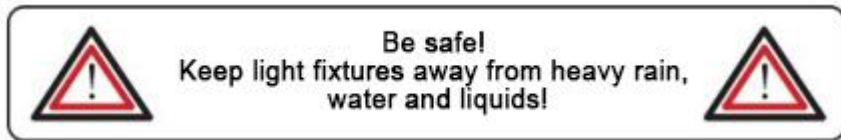
★This equipment has been strictly inspected before shipment, please follow the operation requirements of the manual to ensure the safe operation of the product under normal conditions.

★Any damage caused by improper operation will lead to the termination of the warranty claim. The manufacturer does not accept any responsibility for any property damage and personal injury caused by improper operation of the product or failure to follow the operating instructions.

★Please keep the manual in a safe place for future reference and pass it to the new owner after the product is sold or rented or moved.

★Note: Due to our company's continuous product improvement, the data contained in this manual may change, and there will be no further notice of changes at that time. The company reserves the right to change the relevant specifications of the product.

II. Safety Instructions:

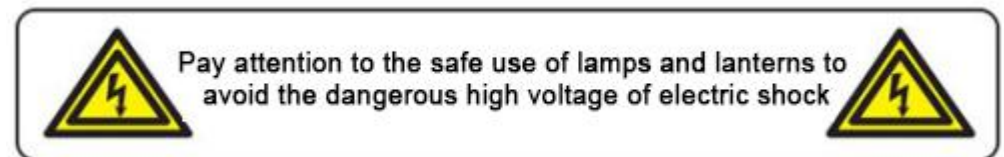


1. After opening the package, take out all the accessories from the box, and take out the lamp from the box, and place it on a horizontal platform for easy related operations. First, check whether the items are complete? Secondly, please carefully check whether the entire lamp is damaged? If there is any damage, please contact our company in time.
2. AC power supply: Check whether the local power supply meets the rated voltage requirements of the product.
3. This product is only suitable for indoor working environment. The lamps and lanterns should be kept dry and avoid using in humid, overheated or dusty environments. Prevent or reduce the risk of electric shock or fire, and protect the lamp from contact with other liquids such as water.
4. When installing and positioning the lamps, please do not install the lamps directly on the surface of ordinary combustible substances.
5. Only qualified professionals can install, operate and maintain lamps;
6. When the lamp fails, stop using the lamp immediately. Do not attempt to repair it yourself, contact the nearest Authorized Technical Assistance Center and if a part is damaged, always replace it with a part of the same type.
7. Do not touch any wires during operation as there may be a dangerous electric shock.
8. Make sure that the ambient temperature for the normal and stable operation of the lamp does not exceed 40°C at the highest and -20°C at the lowest.
9. Under stable heat dissipation conditions, the maximum temperature of the lamp shell can reach 60°C, please do not touch it with your

hands.

10. The lamp is designed according to the type of electric shock protection. The fixture should be connected to a fully grounded power supply system and the ground wire of the fixture must be in contact with the ground wire of the power supply system. The ground wire mark port of the metal shell of the fixture should be securely connected to the lamp holder.
11. Do not use the power cord with damaged insulation layer, and do not lap the power cord on other wires. When the lamp is not in use or for cleaning, please hold the power cord plug to unplug the power cord, do not pull or directly drag the power cord.
12. There are no user-serviceable parts inside the lamp. Before starting to operate the lamp, please check whether all the shells have been installed and whether the screws have been tightened reliably. Do not use the fixture with the case open.

Note: Before any installation, maintenance and cleaning of lamps, please make sure that the power cord has been cut off !!!



III. Product Features:

1. Built-in main and auxiliary machines, DMX and voice control, and self-propelled mode.
2. 1.3-inch OLED screen is easy to operate.
3. Suitable for discos, clubs, bars, parties, mobile DJs, concerts and more.
4. Product channels: 3CH, 5CH, 20CH and 300CH.
5. Five operation modes: sound (audio) detection, effect mode, DMX,

network cable connection and master/slave management;

6. Voltage: AC100-240V 50-60Hz.

7. Fuse: F3AL250V.

8. Dissipated power: P=120W.

9. Light source: 500×0.2W SMD-RGB

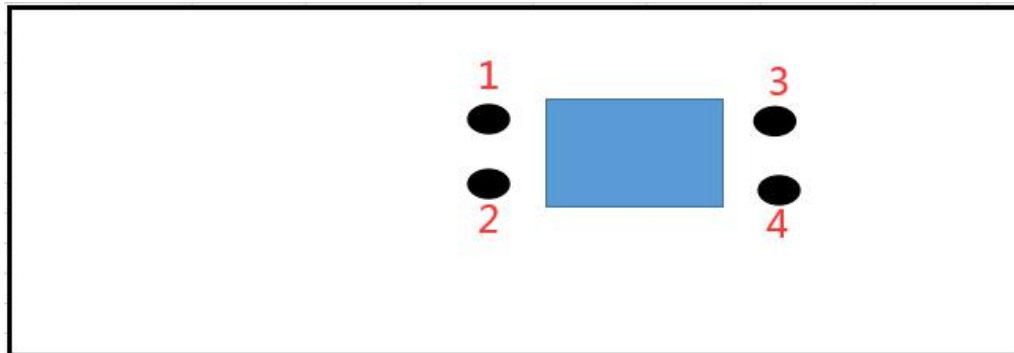
10. Net weight: 7.4kg

11. Size: 550*550*70mm

12.Lamp lumen value

Color	@1M	Unit	Angle
R	250	Lux	65°
G	650		
B	150		
RGB	1000		

IV. Function Description:



Name	No.	Corresponding mark	Function
Button:	①	MENU	Enter/view menu function
	②	ENTER	Enter the selected function/OK
	③	DOWN	View the next menu
	④	UP	View the previous menu

V. Main functions of the display screen:

To select a preset function, press the **MENU** button and select the menu option you want. Press the **ENTER** button to enter the selected function, the display will flash, then use the **DOWN/UP** button to select the desired function, press the **ENTER** button to confirm and save.

The main functions are as follows:

Menu	Options and Settings		Explanation
DMX address	Address code: 001-512		DMX Address code selection
Channel mode	3CH/ 5CH/20CH/300CH		Channel option, you can choose 3/5/20/300Ch channel
Art Net Set mode	Network Switch (On/Off) Network Select On/Off		Network Switch (On/Off) Network Select On/Off
	Domain (1-255) 1-255 selection		Domain (1-255) 1-255 selection
	IP address (192.168.1.2) IP address setting		IP address (192.168.1.2) IP address setting
Stand-alone mode	Self-propelled mode Effect	Effects (random and effects 1-20)	Performance selection
		Dimming (0-100)	Brightness selection
		Speed (1-100)	Performance speed selection
		Voice control (on/off)	Voice control on and off selection
		Sensitivity (0-100)	Sensitivity selection
	Static mode	Dimming (0-255)	Brightness selection
		Strobe (0-255)	Strobe speed selection
		Red (0-255)	Red brightness selection
		Green (0-255)	Green brightness

Stand alone mode	Color Macro		selection
		Blue (0-255)	Blue brightness selection
		Dimmer (0-255)	Brightness adjustment
		Color (off/red, amber, warm yellow, yellow, green, turquoise, cyan, blue, lavender, purple, magenta, pink, warm white, white, cool white) selection	Color Selection
		Gradient (1-100)	Change effect,Speed
Master and slave settings as master	Master Set	Set as master	Master performance
	Sub-machine	Set as the sub-machine	Sub-machine follows the effect of the main machine
Advanced settings	Language Selection	English	The English screen
		Chinese	The Chinese screen
	Screen inversion	No	Screen display is positive
		Yes	Screen display is reversed
	Screen On/Off	OFF	Background display will automatically turn off the screen after 30 seconds
		Open	Background display always bright
	No signal	Black field	In the DMX state, this function is used for state selection when disconnected
		Auto-run	
		Keep	

	Service	Password	Background Regulation
Device Information	Version number	V1.0	Software version number when leaving the factory
	Working time	~~h	The time the light has been used

VI. How to control the device:

There are two ways to control lights:

1. Built-in program control of master/slave machine
2. Universal DMX controller control
3. Built-in functions of main and auxiliary machines

The initial setting of all lights is the master, connect the lights in series, one of the lights is automatically defaulted as the master, and the rest are in slave mode.

You can also designate one as the master and the rest as slaves.

VII. DMX controller:

If you want to use the DMX controller to control the lights, you must first set the DMX address code, the address code range is between 1-512, so that the lights can receive DMX signals.

Press the **MENU** button to select the "**DMX 001**" menu option. Press the **ENTER** button to enter, the address code will flash. Use **UP/DOWN** to select the **DMX512** address code, our factory setting is "**DMX 001**". After the address code is set, press and hold the **ENTER** button.

Connect the output port of the DMX512 console to the **DMX input** port of the first slave, and connect the **DMX output** port of the first slave to the DMX input port of the second slave with a signal line, and so on, until Connect all slaves.

VIII. Channel mode description:

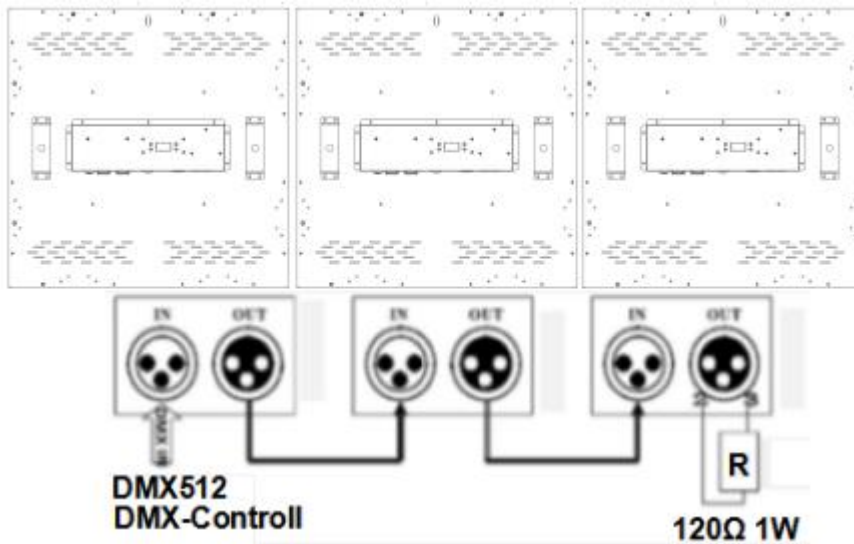
(choose DMX A 001 default address code)

[Appendix 1] DMX Channel Table (3CH) - (DMX A001)

Channel	Value			Function	
CH1	000	-	255	Red linear dimming, brightness 0-100%	SMD 调光
CH2	000	-	255	Green light linear dimming, brightness 0-100%	
CH3	000	-	255	Blu-ray linear dimming, brightness 0-100%	

[Appendix 2] DMX Channel Table (5CH) - (DMX 001)

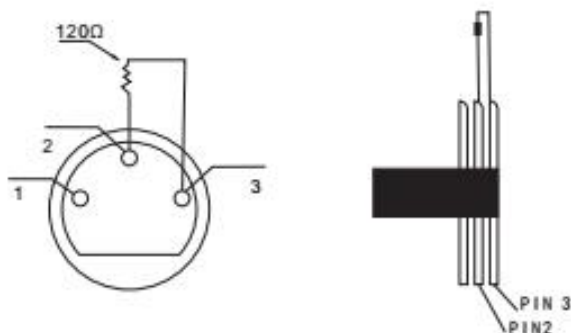
Channel	Value			Function	
CH1	000	-	255	Performance total brightness 0-100%	Total dimming1
CH2	00	-	005	Consecration	On / Strobe
	00	-	010	Close light	
	01	-	033	Slow on and off	
	03	-	056	Fast close slow open	
	05	-	079	Fast open slow close	
	08	-	102	Random strobe	
	10	-	127	Lightning strobe	
	12	-	250	Fixed strobe	
	25	-	255	Turn on light	
CH3	000	-	255	Red linear dimming, brightness 0-100%	SMD
CH4	000	-	255	Green light linear dimming, brightness 0-100%	
CH5	000	-	255	Blu-ray linear dimming, brightness 0-100%	



DMX-512 connection needs a terminator (loop connection)

During the installation process, if the laying distance of the signal line is relatively long, or in an environment with noisy electrical appliances, such as a dance hall, it is recommended to use a DMX terminator (loop connection).

This avoids muddy digital control signals caused by electrical noise. The DMX terminator is composed of a simple **XLR** connector with 2 cores and 3 cores connected to a **120Ω** resistor. Please insert the terminator into the **XLR** output port of the last product.



[Appendix 3] DMX Channel List (20CH) - (DMX A001)

Channe	Value			Function	
CH1	000	-	255	Total brightness 0-100%	Total dimming
CH2	000	-	255	Performance color brightness 0-100%	Show color lighting
CH3	000	-	005	Turn on light	On / Strobe
	006	-	010	Turn off light	
	011	-	033	Slow on and off	
	034	-	056	Fast close slow open	
	057	-	079	Fast open slow close	
	080	-	102	Random strobe	
	103	-	127	Lightning strobe	
	128	-	250	Fixed strobe	
	251	-	255	Turn on light	
CH4	000	-	255	Red linear dimming, brightness 0-100%	Performance tone lighting
CH5	000	-	255	Green light linear dimming, brightness 0-100%	
CH6	000	-	255	Blu-ray linear dimming, brightness 0-100%	
CH7	000	-	007	No function	Show color wheel (15 colors)
	008	-	127	Fixed color	
	128	-	191	Color jumps from slow to	
	192	-	255	Color Gradient Slow to Fast	
CH8	000	-	015	No function	Performance effect
	016	-	075	Classification of Performances	
	076	-	135	Performance Classification - Digital	
	136	-	195	Classification of performances	
	196	-	255	Performance Classification -Dynamic Pattern	
CH9	When the value of the 8th channel is "16-75"				Letter effect
	000	-	005	Random letters	

	006	-	213	Letter selection	
	214	-	255	No function (option reserved)	
CH9	When the value of the 8th channel is "76-135"				
	000	-	005	Random number	Digital Effects
	006	-	115	Number selection	
	116	-	255	No function (option reserved)	
	When the value of the 8th channel is "136-195"				
	000	-	005	Random number	Static pattern effect
	006	-	224	Static pattern selection	
	225	-	255	No function (option reserved)	
	When the value of the 8th channel is "196-255"				
	000	-	005	Random number	Dynamic pattern effect
	006	-	105	Dynamic show selection	
	225	-	255	No function (option reserved)	
CH10	000	-	008	Effect speed slow to fast	Effect speed setting
	009	-	128	Location selection	
	129	-	191	Forward moving fast to slow	
	192		Stop		
	193	-	255	Reverse move slow to fast	
CH11	000	-	127	Move horizontally	Mobile Settings
	128	-	255	Move vertically	
CH12	000	-	63	No mirror	Mirror settings
	064	-	127	Horizontal mirror	
	128	-	191	Vertical mirror	
	192	-	255	Mirror horizontally and vertically	
CH13	000	-	063	No function	Rotation setting
	064	-	127	90 degree rotation	
	128	-	191	180 degree rotation	

	192	-	255	270 degree rotation	
CH14	000	-	005	Close	FADE setting
	006	-	127	Fade in settings	
	128	-	255	fade out settings	
CH15	000	-	255	Background color brightness	Background tone
CH16	000	-	005	Consecration	On / Strobe
	006	-	010	close light	
	011	-	033	Slow on and off	
	034	-	056	fast close slow open	
	057	-	079	fast open slow close	
	080	-	102	random strobe	
	103	-	127	Lightning strobe	
	128	-	250	Fixed strobe	
	251	-	255	Turn on light	
CH17	000	-	255	Red linear dimming, brightness 0-100%	Background tone light
CH18	000	-	255	Green light linear dimming,	
CH19	000	-	255	Blu-ray linear dimming,	
CH20	000	-	005	no function	Background color color wheel
	006	-	127	fixed color	
	128	-	191	Color jumps from slow to	
	192	-	255	Color Gradient Slow to Fast	

[Appendix 4] DMX Channel List (300CH) - (DMX A001)

Channe	Value	Function			
CH1	000	-	255	Total dimming, linear dimming, 0-100% brightness	SMD1
CH2	000	-	255	Red linear dimming, brightness 0-100%	
CH3	000	-	255	Green linear dimming, brightness 0-100%	

CH4	000	-	255	Blue linear dimming, brightness 0-100%	
CH5	000	-	255	Total dimming, linear dimming, 0-100% brightness	SMD2
CH6	000	-	255	Red linear dimming, brightness 0-100%	
CH7	000	-	255	Green linear dimming, brightness 0-100%	
CH8	000	-	255	Blue linear dimming, brightness 0-100%	
CH9	000	-	255	Total dimming, linear dimming, 0-100% brightness	SMD3
CH10	000	-	255	Red linear dimming, brightness 0-100%	
CH11	000	-	255	Green linear dimming, brightness 0-100%	
CH12	000	-	255	Blue linear dimming, brightness 0-100%	
CH13	000	-	255	Total dimming, linear dimming, 0-100% brightness	SMD4
CH14	000	-	255	Red linear dimming, brightness 0-100%	
CH15	000	-	255	Green linear dimming, brightness 0-100%	

CH293	000	-	255	Total dimming, linear dimming,	SMD99
CH294	000	-	255	Red linear dimming, brightness 0-100%	

CH295	000	-	255	Green linear dimming, brightness 0-100%	
CH296	000	-	255	Blue linear dimming, brightness 0-100%	
CH297	000	-	255	Total dimming, linear dimming,	SMD100
CH298	000	-	255	Red linear dimming, brightness 0-100%	
CH299	000	-	255	Green linear dimming, brightness 0-100%	
CH300	000	-	255	Blue linear dimming, brightness 0-100%	

IX. Product Maintenance and Cleaning

Please pay attention to the following points when testing this product:

★All screws and parts for installing the product must be tightly connected and must not be rusted;

★The shell, lens, fixing parts and installation site (such as ceiling, hanger, truss, etc.) cannot be deformed;

★The power cord must not be damaged in any way.

The installation and use of the product must be carried out by trained professional and technical personnel, and it must be ensured that potential safety hazards are eliminated.

Note:

Please unplug the power cord before doing product maintenance!

Before disassembling the luminaire or starting maintenance work, make sure that the power supply of the luminaire is disconnected.

It is very important to keep the luminaire clean and clean.

Keeping it clean will not only maintain the maximum brightness output of the light, but also prolong its service life.

It is recommended Use a high-quality professional glass cleaner and clean it with a soft cloth.

Under no circumstances do you use alcohol or chemical solvents.

Use a vacuum cleaner to clean the inside of the lamp and the fan at least once a quarter.