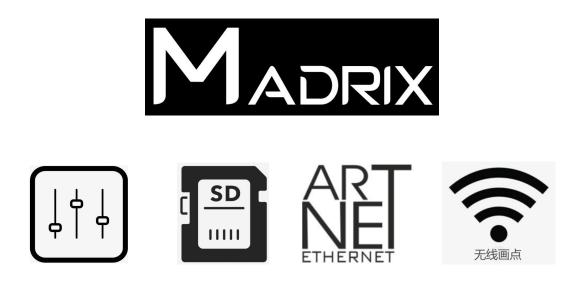
SUPERLIGHTINGLED

Online and offline Multiple ART-NET cascaded Multifunctional integrated machine

<u>5085 (2024)</u>





The 508S is a stand-alone SD card 8-port online+offline controller. It can be connected to the computer for real-time preview and debugging, and can be connected to MADRIX ARTNET, and can be inserted for offline playback. With 8 sets of output ports, it can output DMX512, TTL, SPI data signals, and support lamps of various signal types in the industry. The 508S uses FPGA as the core processor, and realizes high load, high frame rate and high gray level control with FPGA's super data processing ability. The 508S reads the program in the SD card, which is plug and play. It is an offline LED controller with stable performance and strong applicability.

The 508S has an external console trigger function, which can be connected to the console and KTV intelligent light control box, It is very suitable for lighting control of bars and KTV rooms, receiving instructions from the console to call programs, and adjusting speed and brightness.

508S is applicable to various LED lighting projects such as landscape lighting, building outline, advertising words, entertainment places, etc. In combination with the multi-functional editing software ShadowDraw independently developed by our company, It can achieve any color gradient, jump, light tracing, pictures, videos, text and other effects, At present, it has been widely used in LED lighting projects such as office buildings, hotels, shop signs, etc.

Performance characteristics

- As the core processor, FPGA really realizes high load, high speed and high gray control
- With digital display screen, display parameters and address codes, and set address codes and parameters in combination with keys
- Single SD card can be offline
- Multiple sets can be synchronized offline in series
- Real-time control of multiple cascaded MADRIX
- 8-port output, 1024 pixels per port, 8192 pixels per unit
- It can support all kinds of light-driven ICs: DMX512, UCS series, TM series, and other LED industry-driven ICs
- Output interface can be compatible with differential signal and TLL signal at the same time
- Support RGBW four-color control and a variety of special controls. RGBW can select energy-saving mode and brightening mode
- Support brightness and speed key adjustment
- Support large-capacity SD card, and support up to 64 program files
- Support external console control, support access to the intelligent central control of the private room, real-time control, support console push rod overlay background color

It supports online debugging of ARTNET Sir Michael. What you see is what you get. You can record ARTNET to generate offline card copying files.

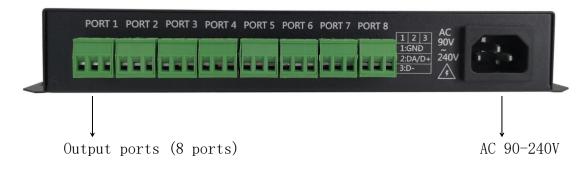
Specifications

- Power input: AC 90-240V
- Power consumption: 3W
- Input trigger interface: RJ45 (DMX512)
- Input network port: RJ45 (ART-NET) (MADRIX)
- Output interface: 8x3pin (DMX512&TTL compatible)
- Output signal: DMX512/TTL
- Working temperature: 20 °C~65 °C
- Product size: L245 imes W140 imes H35 mm
- Weight (gross weight): 1 Kg

Front of controller

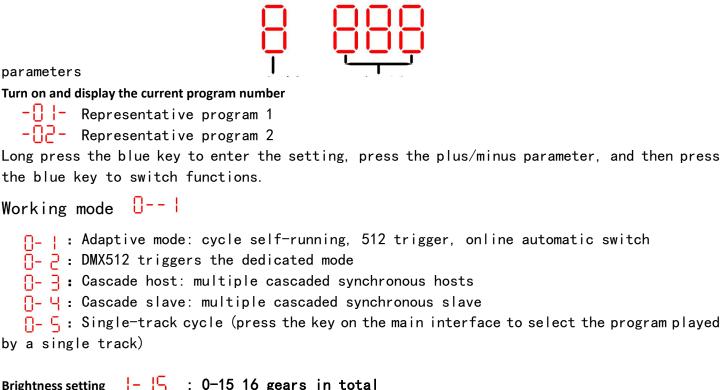


Back of controller



Controller display interface

Four-digit digital display, the first digit is function, and the last three digits are



DMX512 trigger channel table

Channel 1 (0-255): total dimming Channel 2 (0-255): red dimming Channel 3 (0-255): green dimming Channel 4 (0-255): blue dimming Channel 5 (0-255): white dimming, only valid for RGBW four-color lamps Channel 6 (0-255): program: 0-3 program 1, 4-7 program 2, 8-11 program 3 and so on Channel 7 (0-255): speed 0-255 is adjustable, and the maximum speed is adaptive according to the number of points Channel 8 (0-255): with the function of explosion and flash, the frequency of explosion and flash can be continuously adjusted from low to high Channel 9 (0-255): Overlay background color function, which is enabled when the value is greater than 32 Channel 10 (0-255): red background, value 0-255 adjustable Channel 11 (0-255): green background, value 0-255 adjustable

Channel 12 (0-255): blue background, value 0-255 adjustable

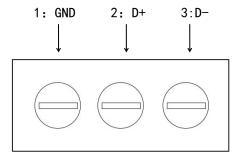
matters needing attention

 The SD card must be formatted before each copy
 The controller is connected to the computer, and the computer needs to set an IP address, such as 192.168.1.200 (automatic access to IP is not allowed)

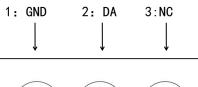
Wiring instructions of controller output port

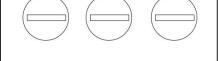


Output port pin description (DMX512)

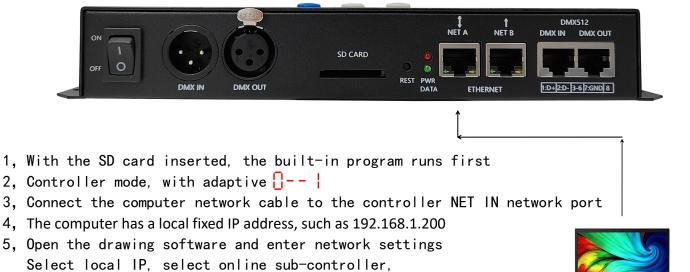


Output port pin description (SPI-TTL)





Controller online tracing

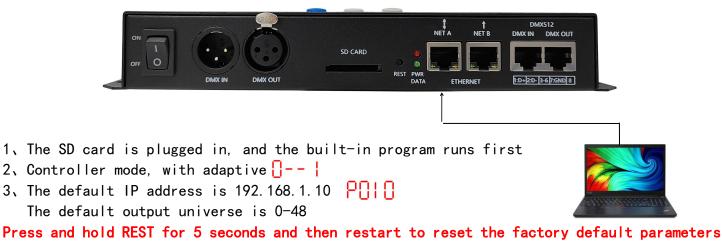


- and test equipment (connected)
- 6, Start online tracing

○ LEDSync 文件 视图		1出 帮助	�) ₪ 몸	мим 🔒		
	软件	设置		😳 网络设置		? ×
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				IP:	192. 168. 1. 200	~ 1
				网络发送帧率:	10	~ 帧/秒
				接收设备类型:	联机分控器	~ 2
				设备检测	已连接	3
				设审位则		
				使用联机分排	空调试,请将LEDView演	播软件关闭
灯具类型:	TM1812		~	或到发送管理	里停止发送数据!	
					OK Cancel	1
控制器/		点数				
✓ 控制器	1					
灯具类型:	TM1812		C	P1		
加兵失望· 控制器/端口		点数		1234567	8 9 10 11 12	B 14 15 16 17 18
控制論/)病口 > 控制器1		AH300				(*)
*)王向)mar) 端口1	81					4
端口2	54		39	3 37 36 35 34 33 3	31 30 29 28 27	25 25 24 23 22 23
端口3	0					
端口4	0					
端口5	0					
端口6	0		42	43 44 45 46 47 48 45	<u>90 51 52 53 54</u>	<u>55 56 57 38 39 60</u>
端口7	0					4
端口8	0					
端口9	0		81	80 79 78 77 76 75 78		
	0					
端口10						
端口10 端口11 端口12	0		C	P2		

In the process of online point tracing, the light belt will light up in real time with the point tracing, and will flash a point in advance.

Controller connection MADRIX



- 4. Connect the computer network cable to the controller NET IN network port
- 5. The computer has a local fixed IP address, such as 192.168.1.200
- 6. Open MADRIX 5, search the device, and find 48 universes
- 7, Enable -- map -- start online control

P Q * 4

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									- 0
MX 设备 DVI 设备	F DMX 推入 Art-Net	MIDI 音祭							
教 备名称		空间输出	空间输入			並/MAC 地址			□ 启用
OE-5085	4	1, 2, 3, 4		192.168.1.10 * / D					ArtSync
OE-5085	4	5, 6, 7, 8		192.168.1.10 * / D					1025122200
OE-5085	4	9, 10, 11, 12		192.168.1.10 * / D					
OE-508S	4	13, 14, 15, 16		192.168.1.10 * / D					502535100235
DE-5085	4	17, 18, 19, 20		192.168.1.10 * / D					
DE-508S	4	21, 22, 23, 24		192.168.1.10 * / D					10151104010
DE-5085	4	25, 26, 27, 28		192.168.1.10 * / D					Contraction of the local division of the loc
DE-508S	4	29, 30, 31, 32		192.168.1.10 * / D					
DE-508S	4	33, 34, 35, 36		192.168.1.10 * / D					
DE-508S	4	37, 38, 39, 40		192.168.1.10 * / D					
OE-5085	4	41, 42, 43, 44		192.168.1.10 * / D			-		
DE-508S	4	45, 46, 47, 48		192.168.1.10 * / D	5:01:A2:02:F3:C	4 / BindIdx12	《仪发送	到 192.168.1	.10,
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日日の日本			-					菊定	£₽ 周⊴
i管理器		MIDI 音祭						菊定	<u>度</u> 周 取 者
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管理器 AX 被条 C /1 後4 状态 开 0	そ DMX 独入 Art-Net 安 E-5085 (192.168.1.10	委名案) BindIdx1 Port:0	1	出	40 / 25.0	优化			
音管理器 AX 安条 C /1 受付 状态 开 0 开 0 开 0	€ DMX 独入 Art-Net 後 E-5085 (192,168,1.10 E-5085 (192,168,1.10)	各名寫)) BindIdx1 Port:0)) BindIdx1 Port:1	1	出	40 / 25.0 40 / 25.0	优化 优化		设备	- 0
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Next, import the map and start online real-time control

Universes In Use OUT: 48/2048 IN: 0

Controller connection MADRIX (multiple sets in series)

The network cable adopts the standard 568B wire sequence, and it is suggested that the serial connection from port A to port B



Multiple controllers are connected in series. You need to set the IP address and output domain of the controller first.

Open the ARTNET configuration tool (first install GC-CAP, then open it) The computer has a local fixed IP address, such as 192.168.1.220

Art-Net Setting V3.41	(- 🗆 ×		
-Local Network						
IP:	192.168.1.22	0 🔹 🔶				
Device Information						-Select computer network card IP
Short name:	GC-6808S					
Long name:	GC-6808S					
Num of port:	8224					
IP :	192. 168. 1. 10			Read 🖌	Read pa	rameters and connect successfully
Device					near pa	
IP: 192.16	8 . 1 . 10 🗲	Network	Speed: Auto 🔻			-Enter the IP address to be set
DMX Output Setting						The ID addresses of multiple
🕫 The same number o	f unverse per por	t. contains	6 👻 Dmx Unverse	C Customize		The IP addresses of multiple
-			K			tandem meetings are
Port1(Universe): S	itart: 1	contains	6 🚽 Dmx Unverse	End: 6		-
Port2(Universe): S	itart: 7	contains	6 🚽 Dmx Unverse	End: 12		automatically sorted
Port3(Universe): S	tart: 13	contains	6 🚽 Dmx Unverse	End: 18		
Port4(Universe): S	tart: 19	contains	6 🚽 Dmx Unverse	End: 24		
Port5(Universe): S	tart: 25	contains	6 🚽 Dmx Unverse	End: 30		Each port outputs 6 universes
Port6(Universe): S	tart: 31	contains	6 🚽 Dmx Unverse	End: 36		
Port7(Universe): S	tart: 37	contains	6 🚽 Dmx Unverse	End: 42		
Port8(Universe): S	Start: 43	contains	6 🚽 Dmx Unverse	End: 48		
RGB Sortting	C GRB C GBR	C BRG	C BGR			
RGBW Mode						
T Enable RGBW Mode	C R	3BW	C WRGB			_Select IC type, SPI&TTL
IC Select	PI&TTL					
IC Type: SI		•				
			DMX Test	Setting ←		Click Setting to set parameters

After multiple controllers are connected in series, the IP addresses and output domains will be automatically sorted.

After setting, open MADRIX

Search device -- enable -- import the map, and you can start the overall real-time control of MADRIX.

After the controller is connected to MADRIX for real-time control, it can be directly recorded as offline card copying file

- You need to connect the controller to record
- MADRIX is under normal control in real time. Only the recorded files can be used

	Art-net Capture Tools V1.49.1 - 🗆 🗙]
FX	Local network IP address: 192.168.1.200	Select computer IP address
●間 時後月 ● 目 時 目 時 月	Parameters	
	IC Type:	Select IC type SPI&TTL
	Universes/Port: 6	Each port outputs 6 universes
	Cpature Frames: 350	Input the number of acquisition
1 🏫 Colo	Current frame num:	frames and automatically stop after recording
1 2 3 4	Log Parse to 15 Universes	
5 6 7 8	Max universe num is:15 The current setting is that each port carries 6 universes, The captu	
9 10 11 12	The length of each frame is 7500 bytes.	
13 14 15 16	<	Resolve first. You can record only after
		the resolution is normal
SCE Wave / Rad	Parse Cpature Pause Stop Cancel	
	<pre></pre>	Click Start and the recording will stop automatically

Record the first one and continue the same operation to record the next one

- After the recorded file is copied to the SD card, it can work offline (format before copying the card)
- The file name is sorted as SC-01-01 and the suffix is rgb
- The file name cannot be modified at will. It must be sorted according to the system default format

📄 Sc-15-01.rgb	2023-10-09 17:39	SGI Image
Sc-14-01.rgb	2023-10-09 17:39	SGI Image
📄 Sc-13-01.rgb	2023-10-09 17:39	SGI Image
📄 Sc-12-01.rgb	2023-10-09 17:39	SGI Image
Sc-11-01.rgb	2023-10-09 17:39	SGI Image
📄 Sc-10-01.rgb	2023-10-09 17:39	SGI Image
🗋 Sc-09-01.rgb	2023-10-09 17:39	SGI Image
📄 Sc-08-01.rgb	2023-10-09 17:39	SGI Image
🗋 Sc-07-01.rgb	2023-10-09 17:38	SGI Image
📄 Sc-06-01.rgb	2023-10-09 17:38	SGI Image
📄 Sc-05-01.rgb	2023-10-09 17:38	SGI Image
📄 Sc-04-01.rgb	2023-10-09 17:38	SGI Image
🗋 Sc-03-01.rgb	2023-10-09 17:38	SGI Image
📄 Sc-02-01.rgb	2023-10-09 17:38	SGI Image
🗋 Sc-01-01.rgb	2023-10-09 17:38	SGI Image