



CISUN LIGHTING MR-328DW Integrated Controller Instructions

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CISUN LIGHTING

MR-328DW Integrated Controller Instructions

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Functions overview

I. System Features

1. MR-328DW Supports standard DMX512/1990 USITT general protocol and extended DMX512 protocol
2. Controller signal output ADRI/PO terminal can achieve DMX512 channel automatic addressing Support DMX512AP-N / NB, UCS512, MY7221, WS2821 and other driver chips
3. MR-318DW Controller addressing signal output compatible differential signals output, Improve the addressing signal transmission distance, in favor of the project application for long distance transmission and effective addressing
4. The system supports automatic, regular, preset programs play
5. Precise gamma correction algorithm. It better conforms to the visual photographic characteristics of the human body, and the display color is more sufficient and rich, so as to perfectly reflect the animation or video effects of the designer
6. Support 120-frame frequency at most, to guarantee demands for HD display and 3D display of the image

7. The controller is equipped with keys and External Remote Control; the episode selection, overall brightness adjustment, white balance adjustment and playback speed adjustment etc.
8. LCD display module, to timely display the controller parameters and state
9. 32-65536 grade gray control can restore the true image color and detail
10. Support for four-color lighting Energy saving and environmental protection pure color
11. SD card storage, support maximum 32G, preset maximum 255 program files
12. Support remote online download and offline program update
13. The built-in animation test program may help customer to debug and apply in project

II. Design concept

1. Four-color design: energy saving, environmental protection and pure color
2. Synchronous with asynchronous integrated control: online priority; it will be shifted to offline effects when without online signal, achieve the video source backup
3. Large self-development and design video editing, playback and layout design software: greater adaptability, more support languages, greater openness. It is applicable for various complicated applications of shaped screen, multi-screen, building screen, pixel light screen etc.
4. Support mainstream 32, 64-bit operating system: Windows 2000, Windows XP, Windows 7, Windows 8 etc.
5. Support DMX512AP-N, DMX512AP-NB, UCS512, MY7221, WS2821, SM512-12 IC and so on.

III. Expansibility

1. Can install all Windows operating systems and support languages of various countries
2. The player software is reserved with sufficient interfaces, so as to be compatible with other international general protocols, and support the personalized design demands of the customers

Controller specification and basic parameters

I. Controller Appearance

MR-318DW Front view :



MR-318DW Rear view :

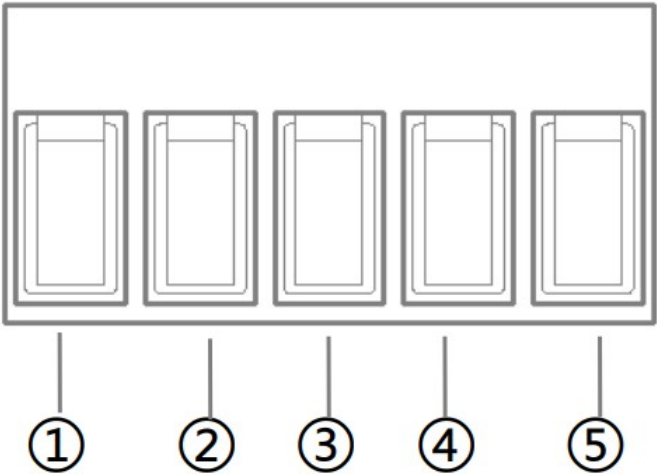


1. power switch
2. Button control panel
3. LCD display screen

- 4. power / communication indicator lamp
- 5. work indicator lamp
- 6. SD Slot
- 7. 8. self-adapting network interface
- 9. signal output port
- 10. power interface

II. Output port definition

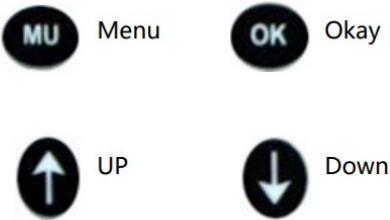
MR-318DW controller uses 8pcs 5pin terminal interface output signals. 5Pin Terminals Sort sequentially from left to right as shown below



	1	2	3	4	5
DMX Signal	Ground	Data+	Data-	Addressing –	Addressing +
	GND	A	B	ADRI/PO-	ADRI/PO+

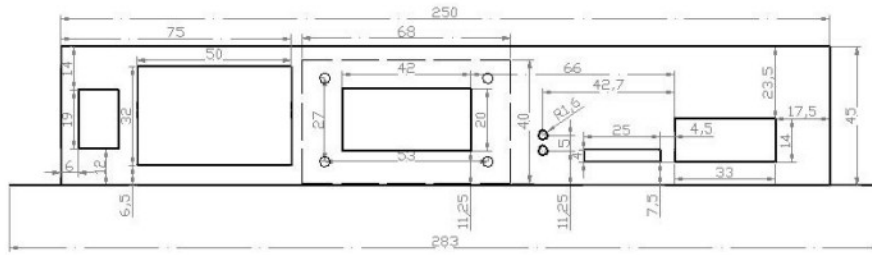
Remark: Signal terminal ④⑤ are differential signals when not using the address line differential output only connect ⑤ Addressing+ is ok.

III. Controller Button control panel

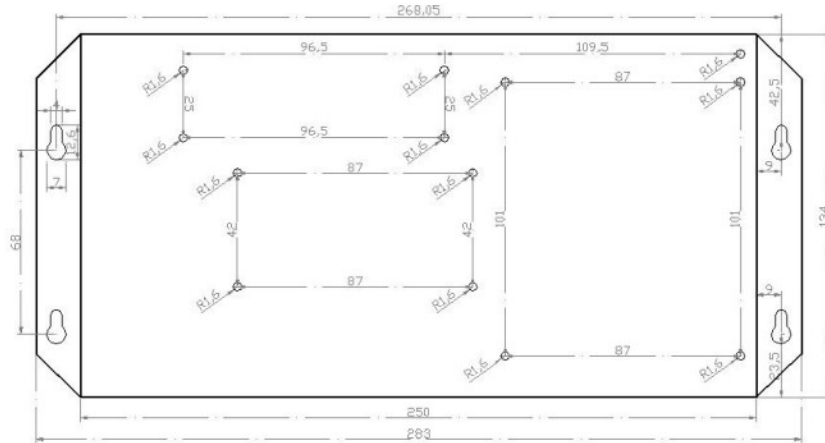


IV. Controller three view size chart

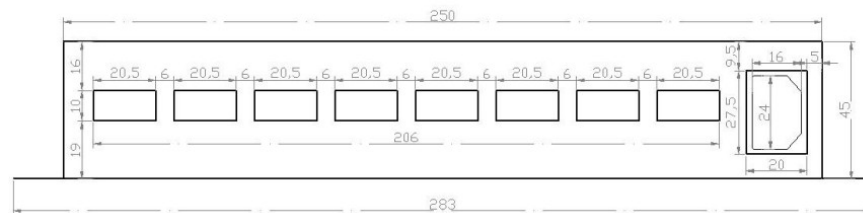
MR-328DW Front view



MR-328DW Top view



MR-328DW Rear view



Remark: Above three views the size unit is mm.

V. Controller basic parameters table:

Input power supply	AC 100V 240V
Maximum power	15W
Length	283mm
Width	134mm
Height	45mm
Spacing of fixing holes	268mm 68 mm
Standard accessories	Remote control×1 /SD card×1/AC power cord×1

Remote control button definition



	Set Menu		plus
	Self Test		Minus
	Confirm and save		Previous fragment
	Exit Setup		Next fragment
	Play and Pause		Numeric Key

Controller keys and display instructions

I. MR-318DW LCD main screen after boot



←Controller name

←Currently playing program fragment number

II. MR-328DW Controller parameters setting

- In the MR-328DW main interface, press to enter the fragment selection settings interface, as shown below



←Catalog

←Loop play (When the number is displayed is the selected fragment number)

In this interface press Adjustable loop mode transferred to digital mode can press to adjust program serial number press again can save and exit settings press to exit without saving settings.

- Press again to enter the playback speed selection interface as shown below

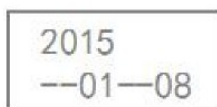


←Playback speed

←Frame count in each second

In the interface to set playback speed then press to exit with saving press to exit without saving.

- Press again to enter date and time setting interface. As figure below



←Year

←Month — Day

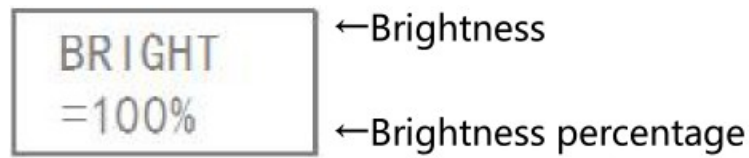


←Time

←Hour—Minute—Second

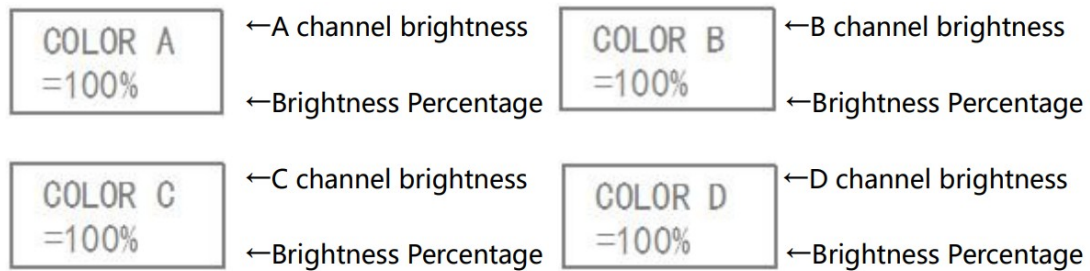
In the interface, press to adjust position press to adjust related value then press to exit with saving press to exit without saving.

- Press again to enter brightness adjustment settings interface. As figure below



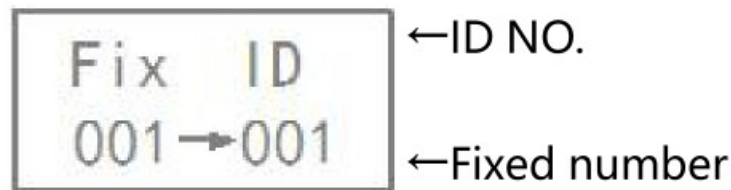
In the interface, press to set brightness, press to adjust channel position of A, B, C, D, press again to set brightness of the four channels, then press to exit with saving, press to exit without saving.

5. press again In turn to enter the A, B, C, D channel brightness adjustment settings interface as shown below



In the interface, press to set brightness, then press to exit with saving press to exit without saving.

6. Press again can enter the sub-controller ID number fixed interface, as shown below



In the interface can press can adjust modified number positions press or Numeric keys to change number the front number refers to the initial controller's number the after number refers to the end of controller after the number is amended, press can fixed the sub-controller ID number.

7. Press again can clear the fixed ID number interface of sub-controller as shown below



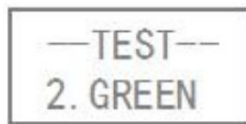
In the interface can press it can clear all the sub-controller ID numbers connected to the master controller.

III. MR-328DW Self Test Setting

In MR-328DW main interface, press to enter self test playing interface as shown **below**



Red Self Test



Green Self Test



Blue Self Test



White Self Test



Trip of red, green, blue and white



Colorful gradient

Note: during self test, press  to shift various self test modes.

IV, Methods for setting up WAIT play mode

MR-318DW after power up can enter the multi segment loop playing or a single segment playing. But requires MR-318DW not play any segment after power up select a segment to play by remote control. Such playback mode is WAIT mode.


MR-328DW after power up Press the “Menu” button to enter the segment selection interface repeatedly press

 or  key until Select INDEX=WAIT as shown below



←WAIT mode




V, Controller Key Setting Parameter

1. In MR-328DW main interface press  to enter fragment selection setting interface. as shown below

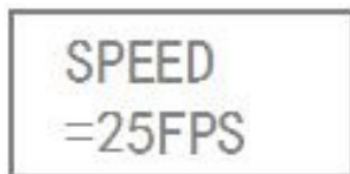


←Index

←Loop (when displayed number is selected fragment number)




In the interface can press   conduct program numbers and adjusting loop mode press  to save and exit setting.


2. Press  again to enter playback speed selection interface as shown below



←Playback speed

←Frame count in each second

In the interface, press   to set playback speed press  to save and exit setting.

3. Press  again to enter date and time setting interface as shown below:

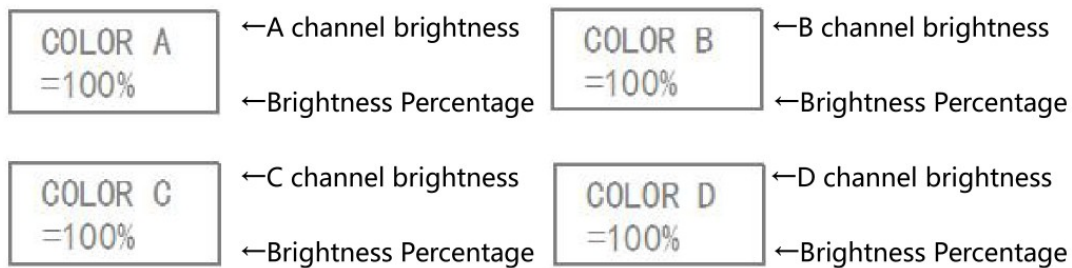


←Brightness

←Brightness percentage

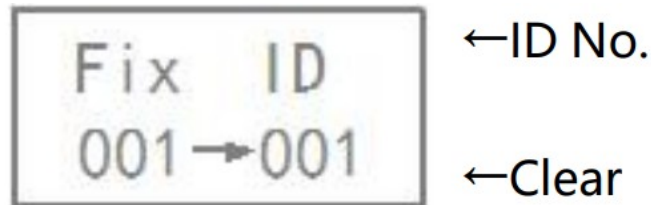
In the interface, press   to set brightness press  to save and exit setting.

4. Press  again can enter A B C D Channel brightness adjustment settings interface as shown below



In the interface, press to set brightness press to save and exit setting.

- Press again can clear sub-control fixed ID number interface, as shown below



In the interface, press can clear the fixed ID number interface of sub-controller.

V, Remote control operation during playing

- Turn off master controller playing

Press button can Switchable master controller playing when MR-328DW is playing. LCD screen display "NO PLAY" Lamp turns black.

- Pause the master controller playing

In the MR-328DW player interface, press button can pause the master controller playing LCD screen display "PAUSE" the lamp colors to stay in that frame before stopping playback color.

- Adjust program segment

when playing a segment by pressing a button or Remote control Numeric keys to adjust the playback of fragment.

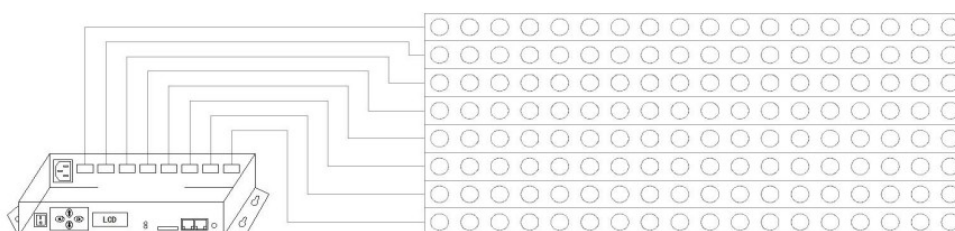
- Check master controller current time

In the MR-328DW player interface, press Can display the current master controller time on the LCD screen. Continue to press then can return to play interface.

Controller installation and Application

I, Offline Mode

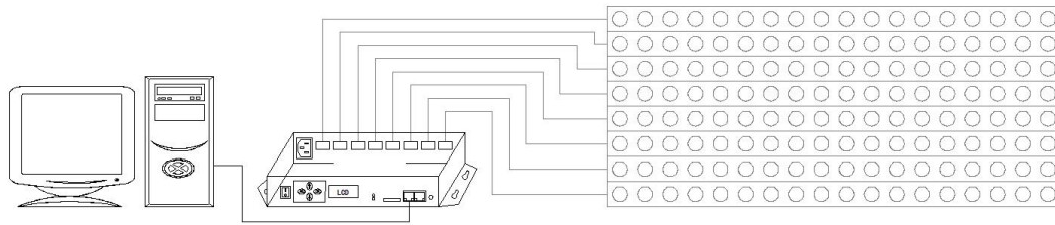
Offline mode directly load with lamps as shown below



MR-328DW

II, Online/Offline Integrated model

Connected to the computer Online signal priority. Automatic switching off line signal without online signal as shown below



Computer (optional)

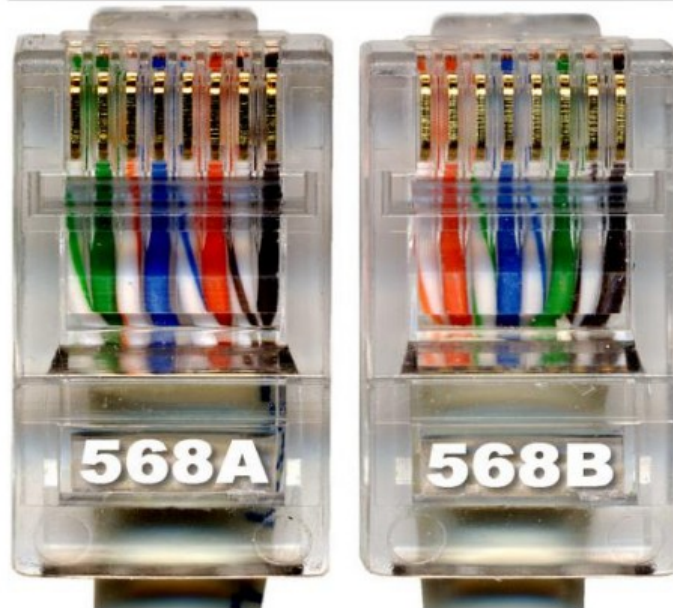
MR-328DW

Attention matters

I, Cat.5e twisted pair Application Notes

568B orange-white/orange/green-white/ blue/blue-white/green/brown-white/brown

568A green-white/green/orange-white/blue/blue-white/orange/brown-white/brown



Controller and offline master controller and switch these three devices between each other using a crossover cable is better One head is 568B, the other head is 568A. Above any equipment and computer room with a straight line that is both 568B or 568A, Do not define the order of the straight line.

II, MR-328DW Controller SD Card Application Notes

MR-328DW SD memory card is used on the controller need to use the FAT32 file system to format and then to store the corresponding offline files.

III, Wire and connecting method from lights to controller

1. Controller output port to the lamp if the distance is too far Recommended for the use of 485 dedicated lines or Cat.5e kind shielded cable connection the best connection way is Orange-A Orange white-B Green-addressing+ ADRI/PO+) Green white-addressing- ADRI/PO-) Other connect to GND Ground
2. At the end of each road signal that is between A and B to add a 120R terminal resistance.
3. Do not connect the two wires that are intertwined to receive the signal, such as orange and orange white connect to A+or B- at same time.


IV, Controller connect to ground application notes

MR-328DW Controller using metal case rated supply voltage is AC100V-240V Therefore, it is necessary to ensure the effective grounding of the controller equipment and the effective grounding of the metal outer box.

And the output port of the controller is exposed to the metal contact surface therefore, according to the requirements of safety regulations to ensure safe use of the operator signal output port GND signal must be effectively grounded.

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Documents / Resources

	CISUN LIGHTING MR-328DW Integrated Controller [pdf] Instructions MR-328DW Integrated Controller, MR-328DW, Integrated Controller, Controller
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References

- [User Manual](#)

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