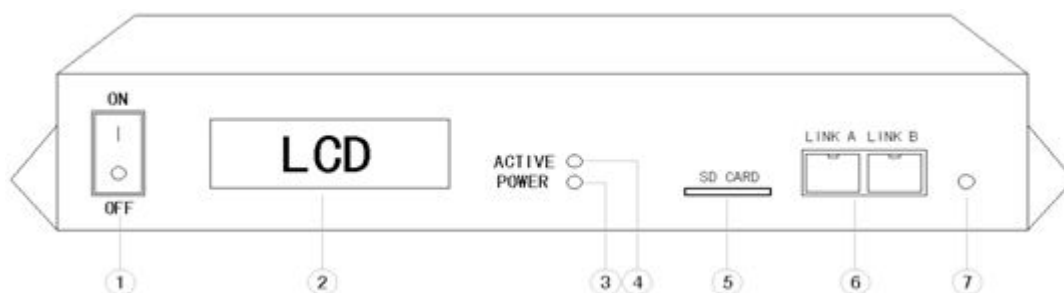# Instructions for ORJ-308D Controller
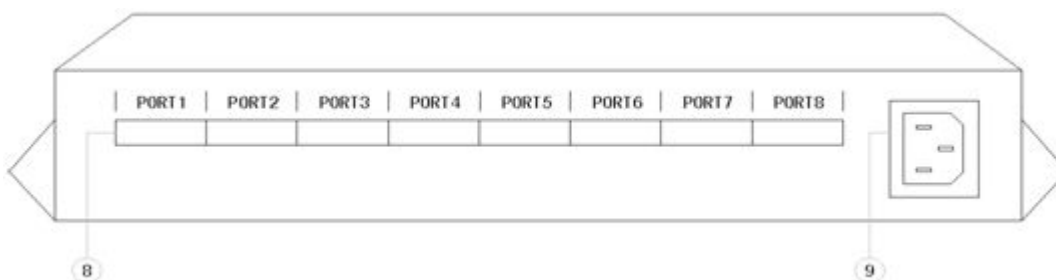
Overview of the controller functions

ORJ-308D is an on- and off-line controller, with 8 output ports, each of which has a maximum load of 170 points, and is controlled by single set without cascade connection. With SD card storage and remote control unit equipped, it can realize off-line set-time play, section playing selection, whole brightness control, white balance adjustment, play speed adjustment, built-in animation test program and RGBW lighting control. All these meet requirements of customers greatly in application and debugging.

Chapter 1 Product Appearance and Illustrations

1. Front view and illustrations of ORJ-308D off-line player

①Power switch   ②LCD display screen   ③Power indicator

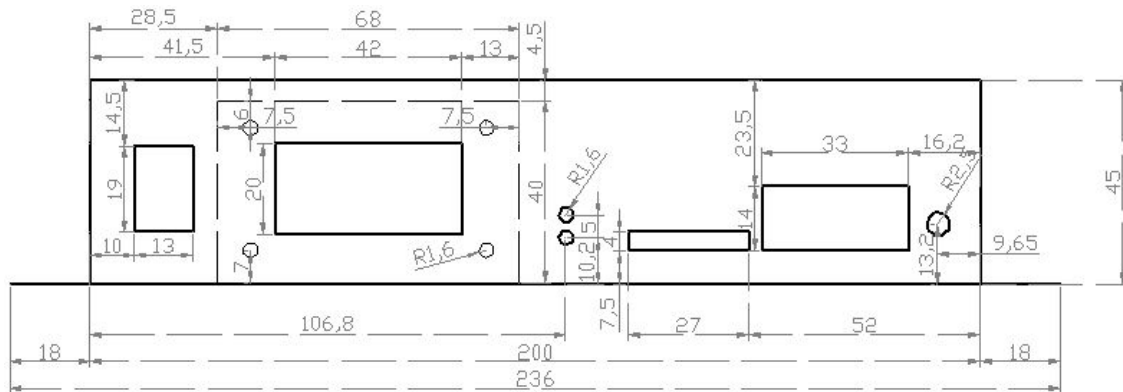④Work indicator   ⑤SD card socket   ⑥RJ-45 internet access

⑦Infrared indicator

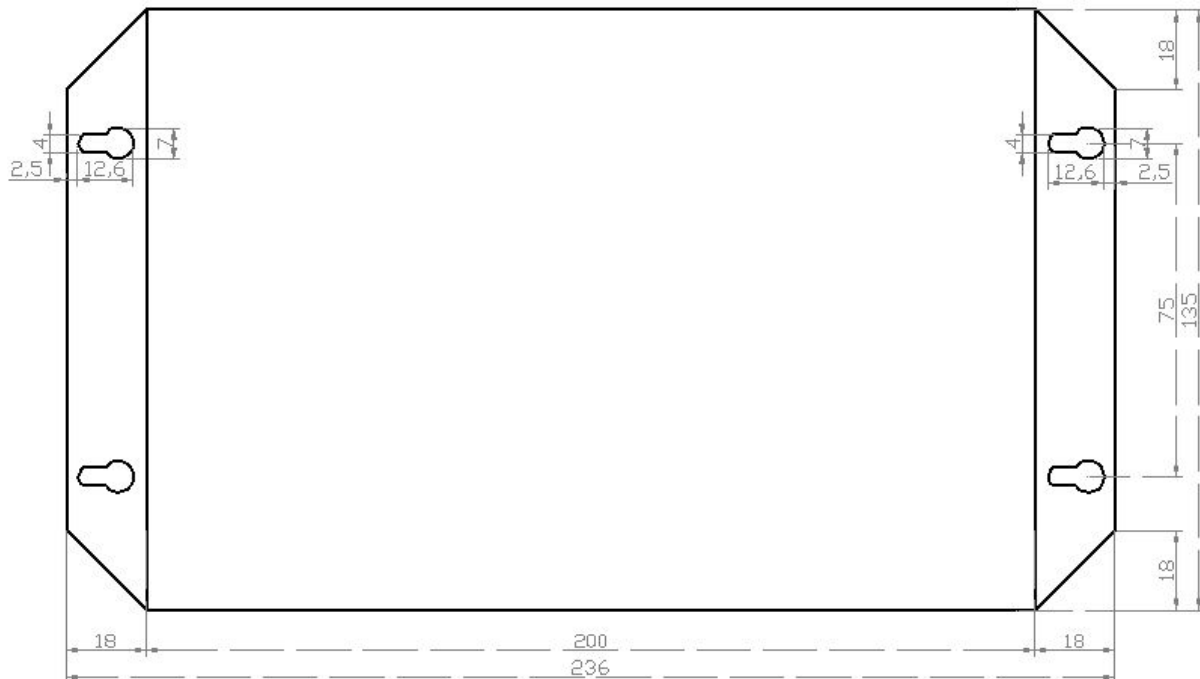⑧Output Port   ⑨Power socket

2. Basic parameters of controller

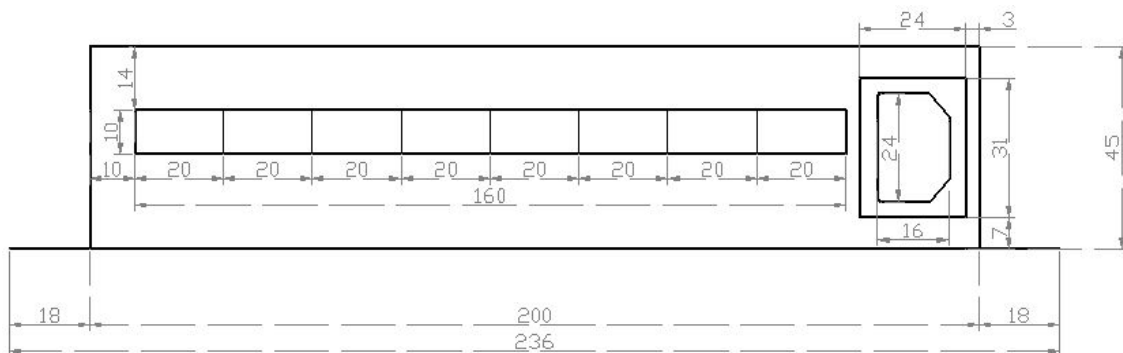| Input voltage	AC 220V
Rated power	15W
Length	23.60CM
Width	13.50CM
Height	4.50CM
Fixed hole pitch	7.50CM;21.84CM

3. Three views of the controller dimension

1) Front view of ORJ-308D controller
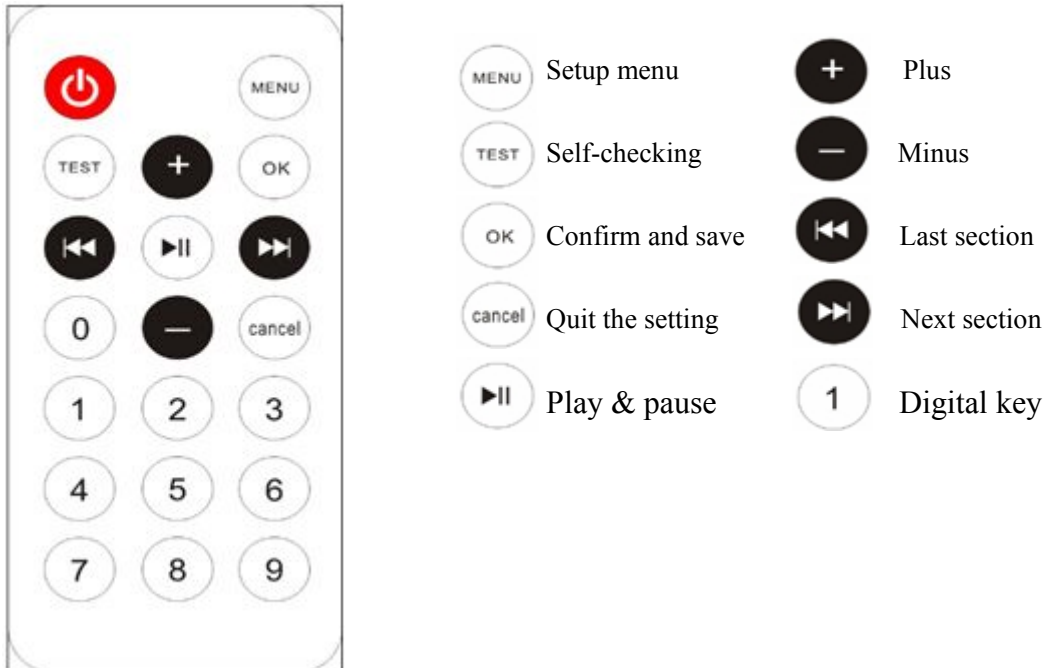

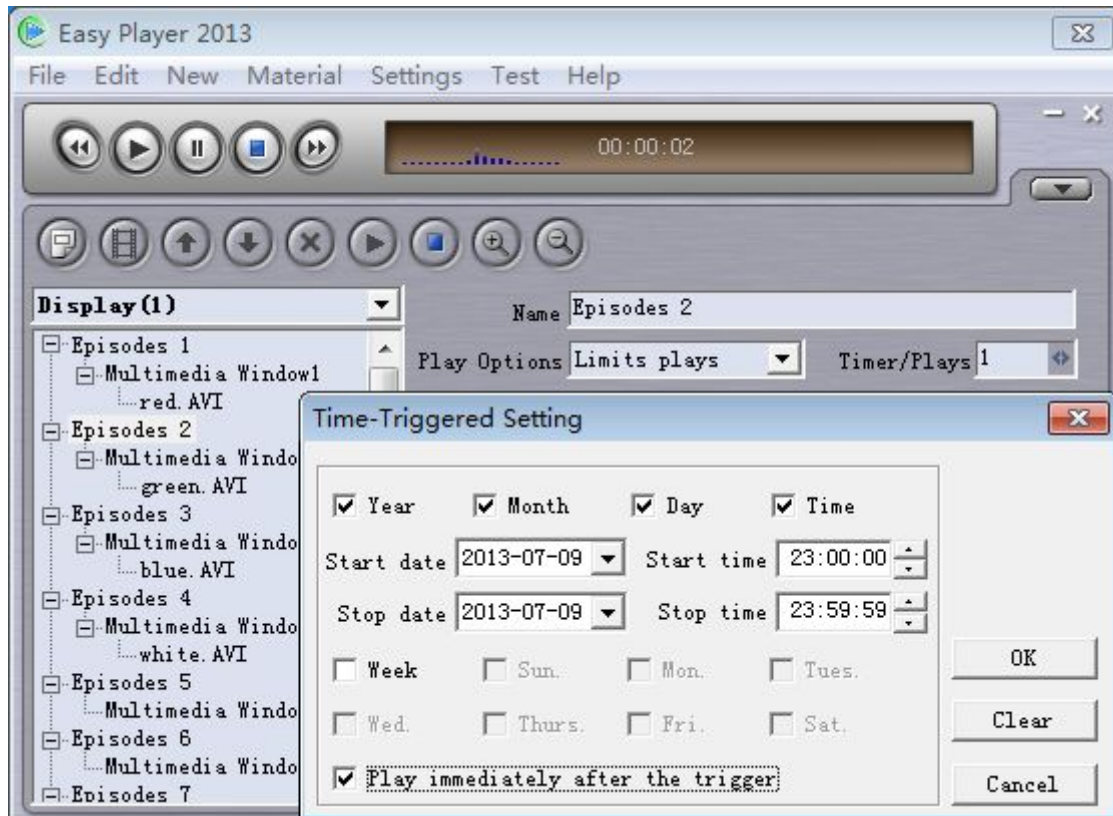2)Top view of ORJ-308D controller

3) Rear view of ORJ-308D controller

Note: The size for above drawings is made by millimeter (mm).

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4. Appearance and illustration of controller panel

MENU	Setup menu	+	Plus
TEST	Self-checking	—	Minus
OK	Confirm and save	◄◄	Last section
cancel	Quit the setting	►►	Next section
►II	Play & pause	1	Digital key

Chapter 2 Off-line File Writing Mode

1. Setting of multi-section off-line file timing play

Animation materials are imported in and the wiring file is created in Easy Player software. The

triggering time for program sections is adjusted as practical requirements, including appointed date, week and time. It is noted to select "Immediately play after triggering" as shown in the picture.

2. Off-line file writing mode

Select a folder: Save the file into in a position of the computer hard disk, then the file is copied to the SD card reader as shown in above picture.
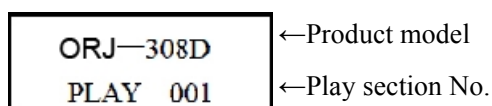

Notes:

1. SD card here should be formatted as FAT32. The work indicator for the off-line player will flash after the file is written in (Failure of the phenomenon indicates the file written wrongly in. The SD card should be formatted again, then the file should be rewritten in).

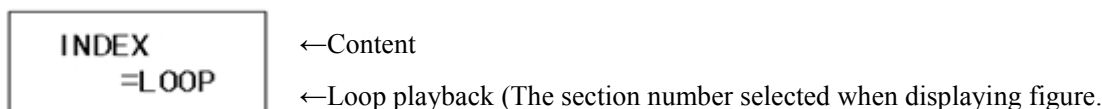2. The date and time for ORJ-308D controller are adjusted as actual time with the remote controlling unit.

Chapter 3 Displaying of display screen and key illustration for remote controlling unit

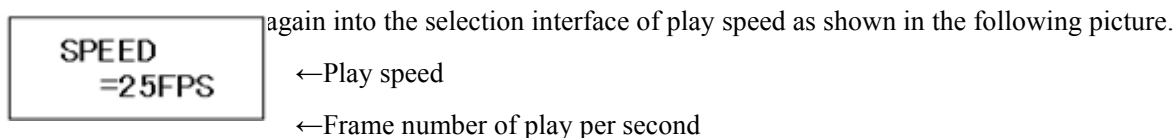**1. Main interface shown on the screen after ORJ-308D starting up**

| ORJ—308D | ←Product model |
| PLAY 001 | ←Play section No. |

2. Setting of play section, speed and brightness of ORJ-308D

(1) Press "Menu" key on the ORJ-308D main interface and access to the section setting interface as shown in the following picture.
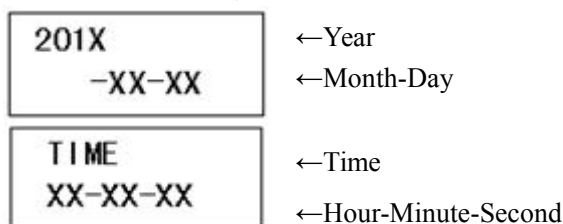
| INDEX | ←Content |
| =LOOP | ←Loop playback (The section number selected when displaying figure. |

Press "Plus-minus" key on the interface to select the play section, then press "Enter" to save the setting.

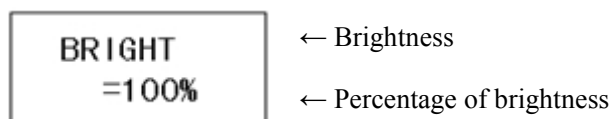| SPEED | again into the selection interface of play speed as shown in the following picture. |
| =25FPS | ←Play speed |
| | ←Frame number of play per second |

Press "plus-minus" key to set the play speed on this interface, then press "Enter" key to save the setting.

(3) Press "Menu" again for the date and time setting interface as shown in the following figures.

| 201X | ←Year |
| -XX-XX | ←Month-Day |

| TIME | ←Time |
| XX-XX-XX | ←Hour-Minute-Second |

Press "Right-left" key to select the position on this interface, and press "Plus-minus" key to adjust its corresponding numbers.

(4) Press "Menu" key again and access to the setting interface of brightness control as shown in the following figure.

| BRIGHT | ← Brightness |
| =100% | ← Percentage of brightness |

On this interface, press "Plus+ minus" key to set brightness, and press "Enter" key again to save the setting.

When BRIGHT=NONE, ORJ-308D brightness control is prohibited, and depends on the brightness value
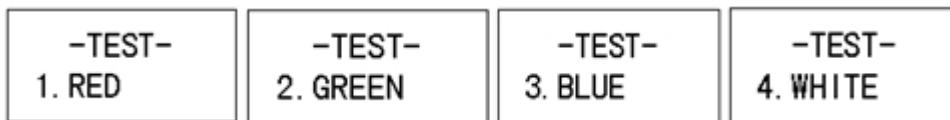
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written by Easy Player software.

(5) Press "Menu" key successively and see four-color channel brightness control interface as shown in the following figure.
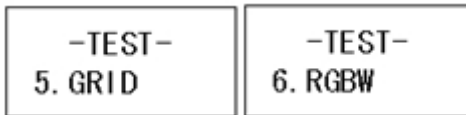
COLOR A	COLOR B	COLOR C	COLOR D
Brt=256	Brt=256	Brt=256	Brt=256

Press "Plus-minus" to adjust RGBW four-color channel brightness value respectively.

Notes: In the setting process, press "Menu" key successively to change over more setting interfaces. After the settings end, only current operation is saved if the save key is not pressed, and the state prior to the setting is restored after the controller is energized again. If the save key is pressed, it may play according to the saved setting states in next starting up.

3. ORJ-308D self-checking

-TEST-	-TEST-	-TEST-	-TEST-
1. RED	2. GREEN	3. BLUE	4. WHITE

Red self-checking   Green self-checking   Blue self-checking   White self-checking

-TEST-	-TEST-
5. GRID	6. RGBW

    Grid test   RGBW jump

Note: in self-checking, press "Self-checking" key successively to change over more self-checking modes.
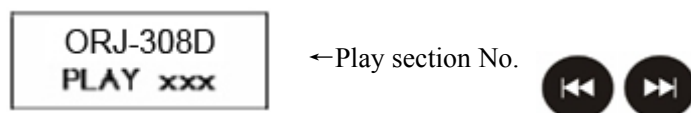
4. Setting of WATT play mode

ORJ-308D off-line player operates multi-section loop playback or a section of single play after it is energized. But the ORJ-308D off-line player doesn't operate any section after energized, and its play section is selected by a remote control unit. Such a play mode is called WAIT mode.

After the ORJ-308D is energized, press "Menu" key to access to the section selecting interface; press "—" key many times till INDEX=WAIT is selected as shown in the following figure.

INDEX
=WAIT

← WAIT model

5. Section selection on the main interface

ORJ-308D
PLAY xxx

←Play section No.

On the main interface, the section is selected by   or digital key.
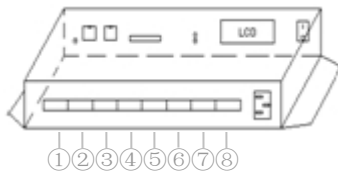
Chapter 4 Controller Installation Instructions

I. Method for Connection with the Upper Part of the Machine (synchronous/online mode)

Directly connect to the computer network port

II. Order of lines at the output interface

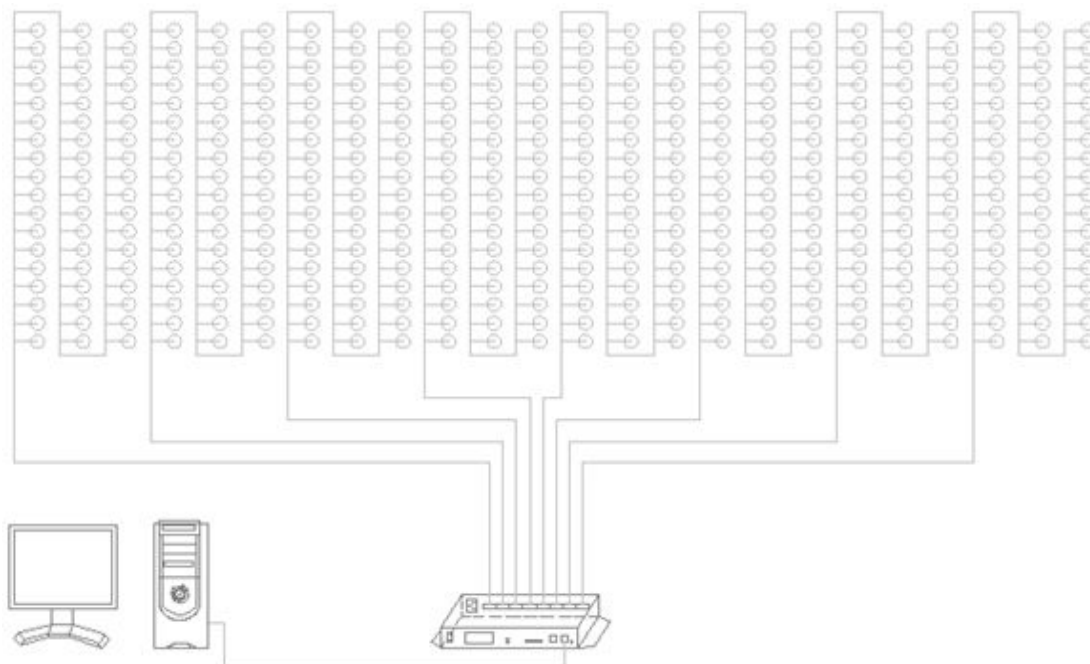5P terminals from left to right, signals from left to right

Mode	1	2	3
8D01	GND	A	B

①②③④⑤⑥⑦⑧

ORJ-308D output interface include 8 3P ports, from 1 to 8 (shown as above)

III. Introduction to a simple case

Wiring arrangement with point source of 24 * 18 dot matrix display screen as an example to introduce the ORJ-308D controller, as shown in Figure: width of 24 points, 18 points higher, wiring is vertically arranged in an S shape, each output controller port control 3 point light sources, a total of 8 SPI interface

Computer(optional)   ORJ-308D

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