

Instructions for ORJ-SD50 Video Player

Overview of the player functions

ORJ-SD50, used as an off-line master controller, has a load of 120,000 points with SD card storage and a remote control unit equipped. It realizes 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

0N LINK A LCD ACTIVE O Ó SD CARD \cap POWER O 0FF (1)2 6 $\widehat{\mathbf{n}}$ 3 4 5 1)Power switch (2) display screen ③Power indicator (4)Work indicator (5)SD card socket ⁽⁶⁾RJ-45 internet access (7)Infrared indicator (8)

1. Front view and illustrations of ORJ-SD50 off-line player

8 Power 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-SD50 controller



2)Top view of ORJ-SD50 controller



3) Rear view of ORJ-SD50 controller



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



Plus Setup menu MENU MENU Self-checking Minus TEST ок Confirm and save • Last section ок ⋗ cancel) Quit the setting Next section cancel 0 ►II Play & pause 1 Digital key 2 3 5 6 8 9 7

4. Appearance and illustration of controller panel

Chapter 2 Off-line File Writing Mode

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

🜔 Easy Player 2013	23	
File Edit New Material Settings Test Help		
Display(1) Name Episodes 2		
Episodes 1 - Multimedia Window1 - red. AVI - Episodes 2 - Multimedia Window1 - Time-Triggered Setting	ays 1 🚸	
Green AVI Green AVI		
E-Episodes 4 Multimedia Windo White AVI	OK	
E-Episodes 5 Week Sun. Mon. Tues. Multimedia Windo Wed. Thurs. Fri. Sat.	Clear	
Multimedia Windo -Episodes 7	Cancel	

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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

🕑 Easy Player 2013				
File Edit New Material	Settings Test Help			
	Software Settings Hardware Settings	• <u>- ×</u>		
0000	Write Offline Controller	 Display1(Flash Card) 		
Display(1)	Audio Input Select Video Input Settings	•		
□ Episodes 1 □ Multimedia Window1 □ Episodes 2 <timer> □ Multimedia Window1 □ green, AVI</timer>	New display Display Settings Delete display	Timer/Plays 1 🔹 rt time: 23:00:00 time: 23:59:59		
Episodes 3 Hultimedia Window1 Lublue, AVI	颜色调整 Four-color	•		
⊡-Multimedia Window1 white. AVI ⊡-Episodes 5 Multimedia Window1 ⊡-Episodes 6	Language	•		
Multimedia Window1 Episodes 7	-			

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.

Offline controller write	
Local IP 192.168.0.37	
Output Options Ethernet downlink data Ethernet downlink data Select a folder	
✓ By Episodes Make File✓ Delete Black Frame	
Start Write Cancel	

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-SD50 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-SD50 starting up



←Product model ←Play section No.

2. Setting of play section, speed and brightness of ORJ-SD50

(1) Press "Menu" key on the ORJ-SD50 main interface and access to the section setting interface as shown in the following picture.

←Content

←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.

(2) Press "Menu" key again into the selection interface of play speed as shown in the following picture.



←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.



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 =100%

←Brightness ←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-SD50 brightness control is prohibited, and depends on the brightness value 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-SD50 self-checking



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

-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-SD50 off-line player operates multi-section loop playback or a section of single play after it is energized. But the ORJ-SD50 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-SD50 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		

$$\begin{array}{c} YT-SD50\\ PLAY \times \times \times \end{array} \leftarrow Play \text{ section No.} \end{array}$$
On the main interface, the section is selected by for digital key.

Chapter 4 Hardware Connection Types

1. Simple case: Illustration and diagrammatic drawing of engineering installation

The connection of ORJ-SD50 controller is introduced taking an example of the 96×18 dot-matrix display screen arrayed with point light sources. As shown in the figure, it has 96 points wide and 18 points high, and presents the vertical S arrangement in wiring. Each output port for the controller controls three rows of point light sources, and needs 32 SPI ports totally by ORJ-SD50 as the video player.

