Video Rotating Box

Product Specifications

Model：RDS-5870

I. Product Overview

Video Rotating Box supports maximum resolution of 4K@60Hz HDMI 4:4:4 input with HDCP 2.2 compliance. It outputs 1920x1080@60Hz to one HDMI port. Users can select different rotation modes via the remote control.This product is a high-definition image rotation box specifically designed for LCD TVs, ultra-narrow bezel LCD screens, and projectors. When connected to an LCD TV or other display device, it can rotate images to various angles according to user requirements.

II. Features

1. This product is a high-definition image rotation box specifically designed for LCD TVs, ultra-narrow bezel LCD screens, and projectors. When connected to an LCD TV or other display device, it can rotate at various angles according to user requirements.

2. The product supports cascading, enabling up to 255 signal outputs.

3. Equipped with a high-definition processing chip, it supports 1080P and 4K signal input and 1080P signal output.

4. Designed with infrared remote control, enabling one-touch quick control and full-function operation via remote for simplified convenience and expanded functionality.

5. Supports simultaneous input from 2 HDMI ports and 1 DisplayPort. All input signals can be switched to the large screen for rotated display.

6. Supports audio input/output with synchronized audio-video output.

7. Supports arbitrary screen rotation at 90°, 180°, or 270 degrees, along with horizontal and vertical mirroring/flipping.

8. Enables remote operation via infrared remote control, allowing full configuration, switching, and adjustment of the vertical screen rotator. The ultra-sensitive remote features direct mode switching via numeric keys 0-9 for enhanced convenience.

9. Supports windowed display modes: 1P, 2PLR, 2PTR, PIP, and 4P. Multiple input signals can be freely combined in windowed mode. This feature is unavailable in rotation mode.

10. Incorporates intelligent thermal control protection technology for stable, reliable, and long-lasting heat dissipation.

11. Features black border cropping technology to eliminate visible borders around images.

12. Supports 0° landscape and 90° portrait non-standard tiling configurations, enabling the creation of ultra-large custom video walls through modular assembly.
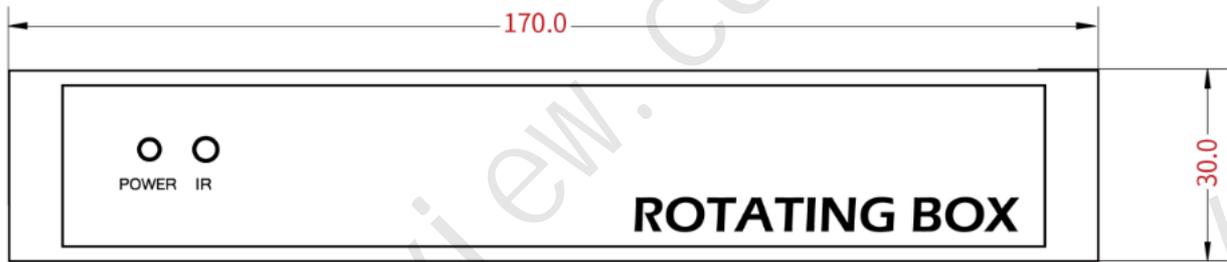
III. Technical Specifications

Category	Name	Specifications
Input Signal	HDMI 1	HDMI 1.4 with embedded audio; Supports resolutions from 640×480 to 3840×2160@30Hz
	HDMI 2	HDMI 2.0 with embedded audio; Supports resolutions from 640×480 to 3840×2160@60Hz
	DP	DP 1.2 with embedded audio; Supports resolutions from 640×480 to 3840×2160@60Hz
Output Signal	HDMI	HDMI output resolution supports up to 1920×1200@60Hz
Audio Output	Audio 3.5mm	Audio interface, supports stereo L/R channels, synchronized audio/video signal switching
Other	Power Supply	DC 12V-1.5A
	Power Consumption	10W
	Control Method	IR Remote Control, RS232

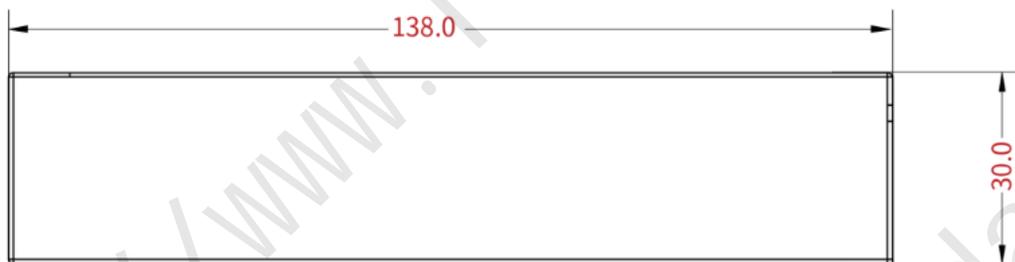|		
Physical Specifications	Net Weight	0.6Kg
	Gross Weight	0.9Kg
	Dimensions (L×W×H)	170 × 138 × 30 mm
Packaging Information	Dimensions (L×W×H)	275 × 220 × 70 mm
	Package List	1 × Main Unit; 1 × Remote Controller; 1 × Power Adapter; 1 × Product Warranty Card

IV. Product Dimensions

170.0

30.0

O O
POWER IR

ROTATING BOX

Front panel

170.0

30.0

DC 12V   INPUT   OUTPUT

HDMI 1   HDMI 2   DP   AUDIO   HDMI   RS232 IN   RS232 OUT

Rear panel

138.0

30.0
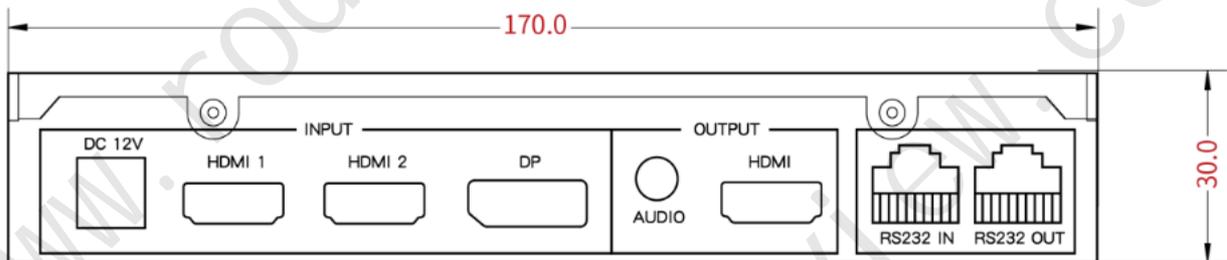
Side panel

V. Panel Buttons and Port Descriptions

1. Front Panel Button Functions
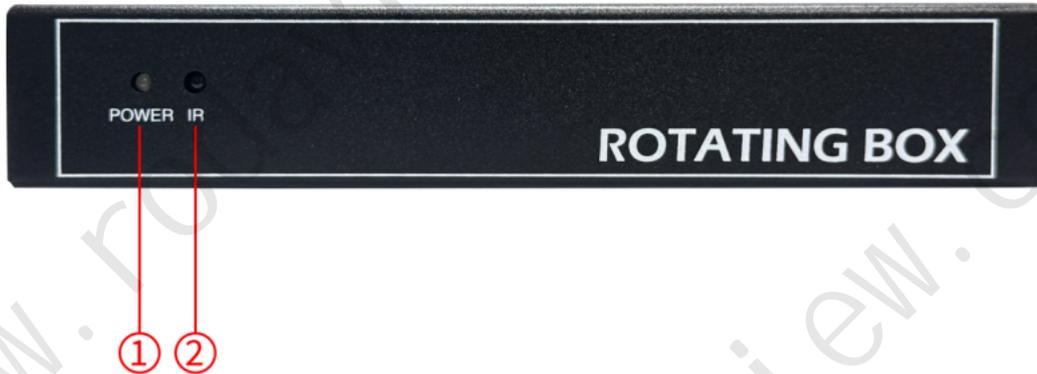
No.	Button Name	Description
1	POWER	Indicator light (Green light on indicates normal operation)
2	IR	Infrared (Receives infrared signals)

2. Rear Panel Port Descriptions
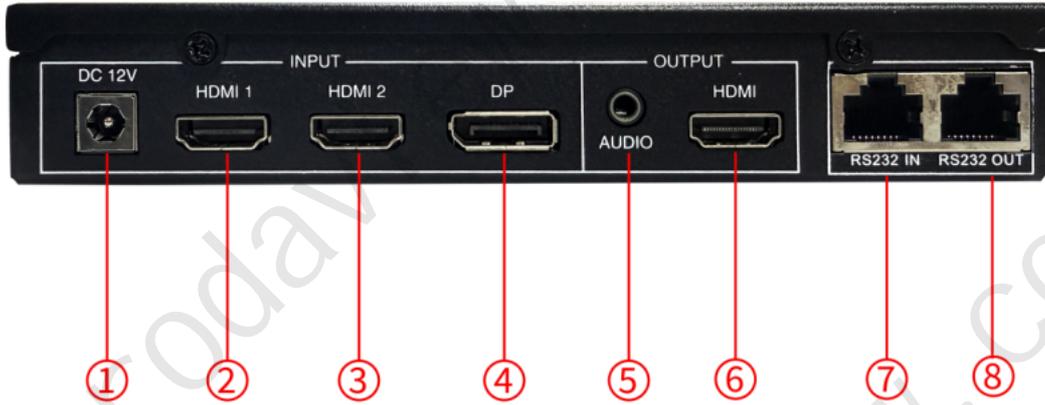
	No.	Interface	Description
INPUT	1	DC 12V	12V DC Power Input
	2	HDMI 1	HDMI 4K@30Hz Signal Input
	3	HDMI 2	HDMI 4K@30Hz Signal Input
	4	DP	DisplayPort (DP) 4K@60Hz Signal Input
OUTPUT	5	AUDIO	3.5mm Audio Jack (Stereo L/R Channel Output)
	6	HDMI	HDMI Output
	7	RS232 IN	Serial Port Input
	8	RS232 OUT	Serial Port Output

VI. Remote Control Button Guide

OFF	Power Off
ON	Power On
DP	Switch to DP Signal
HDMI	Switch to HDMI 1 Signal
DVI	Switch to HDMI 2 Signal
🔉	Volume Down
🔊	Rotate Image
↻	Volume Up
SW/SP	-
INPUT	Open Input Source Menu
←	Move Left (Menu)
→	Move Right (Menu)
↑	Move Up (Menu)
↓	Move Down (Menu)
OK	Confirm / Enter
MENU	Open Menu / Return to Previous
EXIT	Exit / Cancel
MUTE	Mute / Unmute
UPGRADE	No Function
Number Keys 1-9	Recall Preset Mode

VII. Connection Diagram

HDMI output   Serial port output

DC 12V   INPUT   HDMI 1   HDMI 2   DP   AUDIO   OUTPUT   HDMI   RS232 IN   RS232 OUT

Power connection   HDMI connection   HDMI connection   HDMI connection   Audio output   Serial port access

power supply   Player   Camera   computer   Speaker   Serial port cable

VIII. Schematic Diagram of Splicing Mode
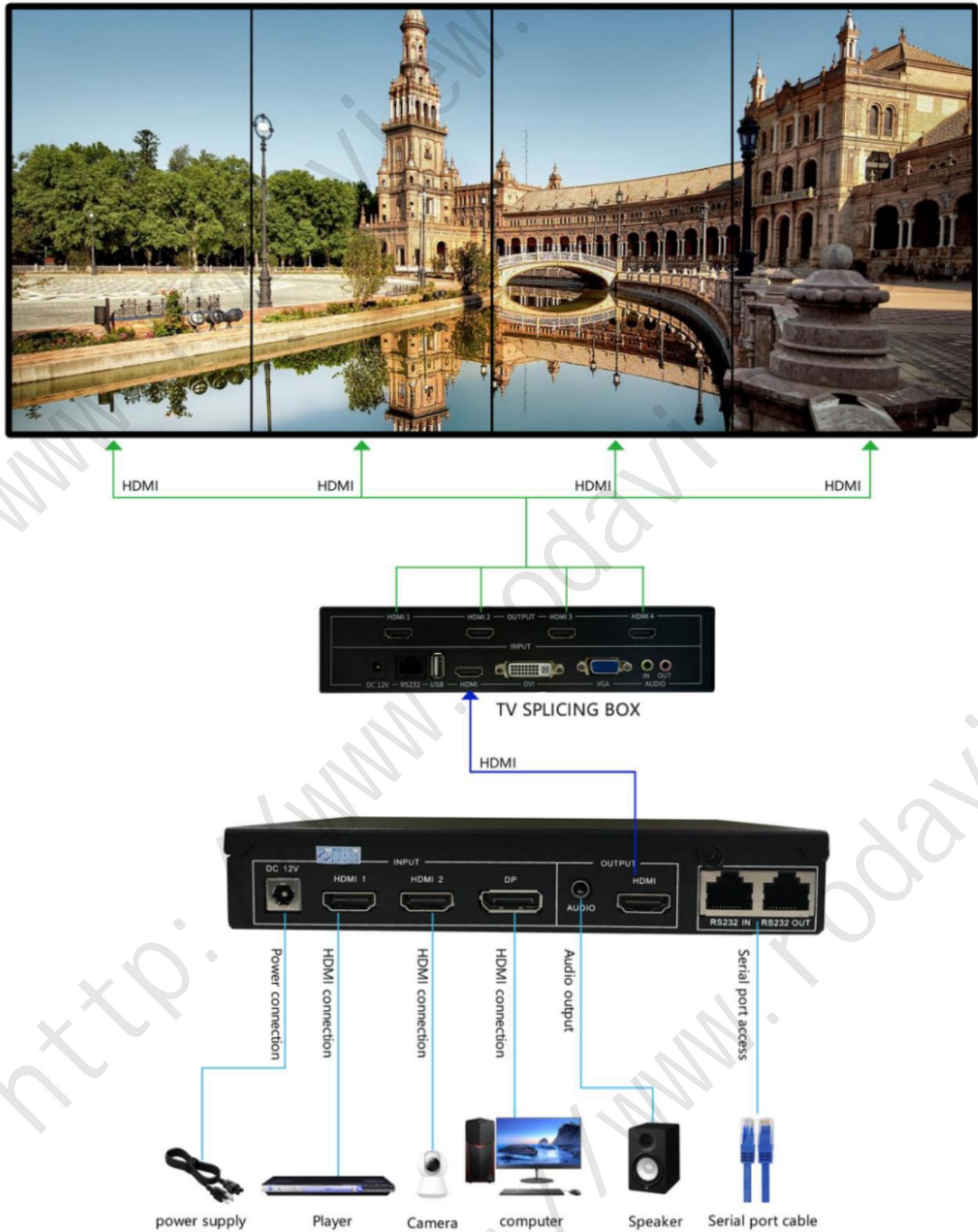
IX. Window Mode Preview

PIP

POP

PBP

4P

X. Product Photos

Front view

Rear view

Left/Right View