4K Video Wall Controller 6output Product Specification

Model: RDTV4K-06

I. Product Overview

The 4K Video Wall Controller supports a maximum resolution of 4K@60Hz HDMI 4:4:4 input and is compatible with HDCP 2.2. It supports routing any input to 6 HDMI outputs. Users can select different splitting modes via the remote control or panel buttons, such as 2×3 video wall mode. It supports both landscape and portrait splitting modes.

This 4K Video Wall Controller   provides a solution for home, office, digital entertainment, centers, meeting rooms, schools, KTV, and other audio-visual applications.

II. Features

1. This product is a high-definition video wall processor specifically designed for LCD TVs, ultra-narrow bezel LCD screens, and projectors. It supports 6 HDMI signal outputs per unit, connecting to LCD TVs or other display devices, and can be customized to various video wall modes according to user requirements.

2. The product supports cascading, enabling up to 255-channel signal output.

3. The product employs high-definition processing chips, supporting 1080P and 4K signal input and output.

4. The product is equipped with infrared remote control and front panel

buttons, allowing users to quickly control the video wall processor with a single button or via remote control for full functionality, offering a simple and convenient experience while enabling further functional expansion.

5. The product supports 2 HDMI inputs and 1 DP input, with all input signals capable of being switched to the large screen for video wall display.

6. Supports audio input and output, and enables synchronized audio output with the corresponding video.

7. Supports arbitrary screen rotation at 90°, 180°, and 270 degrees, as well as left/right mirroring and up/down mirroring.

8. Supports edge blending technology. Without edge blending, images may appear visually stretched; after edge blending, images remain distortion-free, stretched, and visually natural and realistic.

9. Supports remote control operation. The infrared remote control can perform all settings, switching, and adjustment functions of the video wall processor. The remote control features an ultra-sensitive design, allowing direct mode switching using the digital keys 0-9., offering convenience and ease of use.

10. Supports window mode, displaying 1P, 2PLR, 2PTR, and PIP 4P modes, and supports arbitrary splicing and display of multiple input signals in window mode.
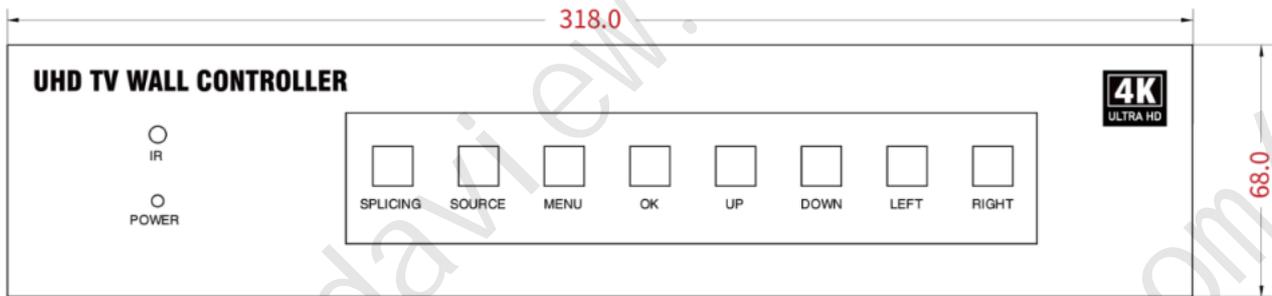
11. Supports intelligent temperature control protection technology, ensuring stable, reliable, and long-lasting heat dissipation performance.

12. Supports black border cropping technology, enabling black borders around the image to be displayed without black borders.
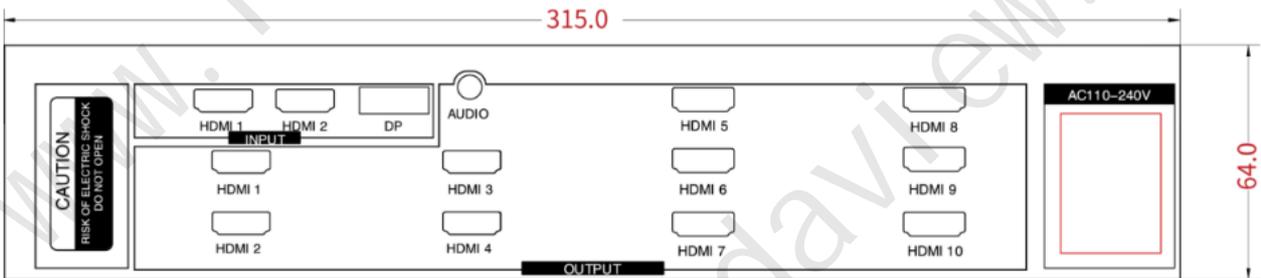
III. Technical Specifications

	Name	Parameter Description
Input Signal	HDMI 1	HDMI1.4 Embedded Audio; Supports 640×480 to 3840×2160@30Hz
	HDMI 2	HDMI2.0 Embedded Audio; Supports 640×480 to 3840×2160@60Hz
	DP	DP1.2 DP Embedded Audio; Supports 640×480 to 3840×2160@60Hz
Output Signal	HDMI1-6	Supports 1×1、3×2、2×3、1×5、1×6、5×1、6×1 splicing modes; Max HDMI output resolution: 1920×1200@60Hz
Audio output	Audio 3.5mm	Audio interface; Supports stereo L/R channel, synchronized A/V signal switching
Other	Power Supply	AC 110 – 220V

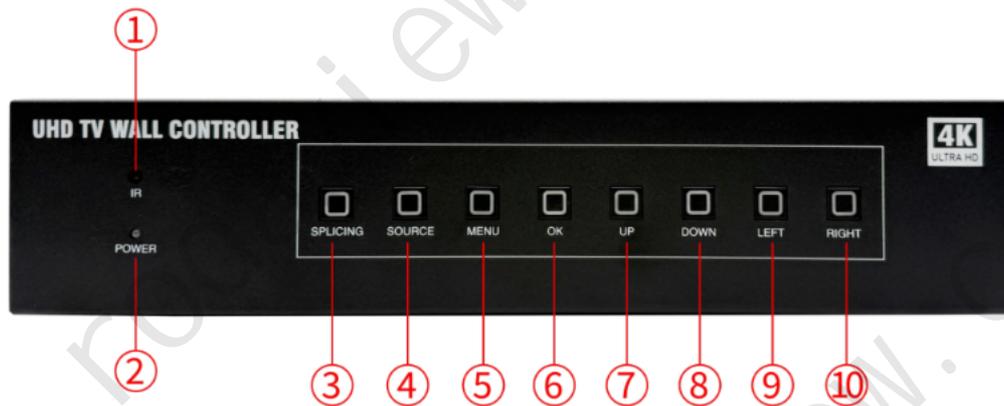|		
	Power Consumption	78W（**Determined by actual output channels**）
	Splicing Mode	1×1、3×2、2×3、1×5、1×6、5×1、6×1splicing modes
	Control Method	IR Remote Control, Front Panel Buttons
Physical Specifications	Net Weight	3.0Kg
	Gross Weight	3.7Kg
	Dimensions (L×W×H)	318×257×64mm
Packaging information	Dimensions (L×W×H)	450×315×115mm
	Packing List	1× Main Unit, 1× Power Cable, 1× Remote Control, 1× Warranty Card, 1× Instruction Manual

IV. Product Dimensions

318.0

UHD TV WALL CONTROLLER

IR

POWER

4K
ULTRA HD

SPLICING SOURCE MENU OK UP DOWN LEFT RIGHT

68.0

Front panel

315.0

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

HDMI 1   HDMI 2   DP   AUDIO   HDMI 5   HDMI 8

INPUT

HDMI 1   HDMI 3   HDMI 6   HDMI 9

HDMI 2   HDMI 4   HDMI 7   HDMI 10

OUTPUT

AC110-240V

64.0

Rear panel

257.0

68.0

Side panel

V. Panel Buttons and Port Description

1. Front Panel Button Functions

No.	Key Name	Description	No.	Key Name	Description
1	IR	Infrared receiver (Receives IR signals)	6	OK	Confirm
2	POWER	Indicator (Green light: normal operation)	7	UP	Up
3	SPLICING	Splicing/Desplicing	8	DOWN	Down
4	SOURCE	Source switching	9	LEFT	Left
5	MENU	Menu/Back	10	RIGHT	Right

2、 Port Description
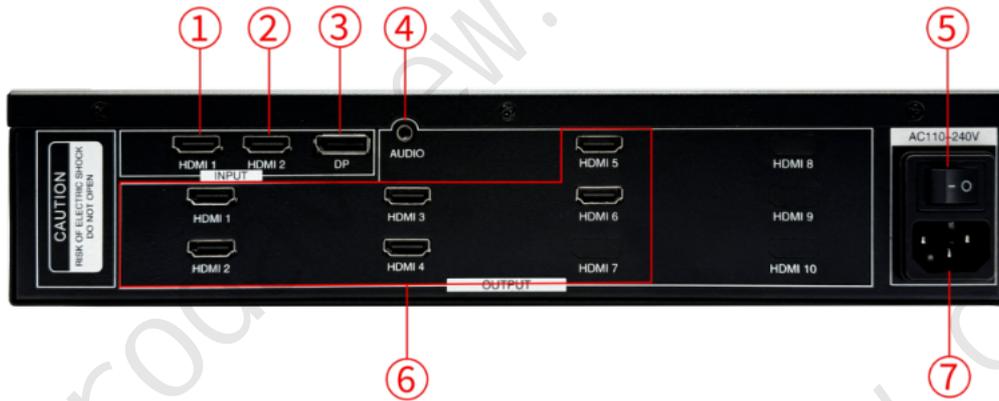
Section	No.	Interface	Description
INPUT	1	HDMI 1	HDMI 4K@30Hz signal input
	2	HDMI 2	HDMI 4K@60Hz signal input
	3	DP	DP 4K@60Hz signal input
	4	AUDIO	3.5mm headphone jack L/R channel output interface
OUTPUT	5	ON/OFF	Power on/off switch
	6	HDMI 1-6	HDMI ports 1 to 6 output
	7	AC110-220V	AC110-220V power input

VI. Remote Control ( ) Button Description

OFF	Power Off
ON	Power On
PC	PC Signal/Playback
HDMI	HDMI Signal/Pause
DVI	DVI Signal/Stop
🔊	Volume Down
🔊	Image Rotation
↻	Volume Up
SW/SP	Split / Merge
INPUT	Switch Signal Source Menu
←	Left menu options
→	Right menu options
↑	Up menu option
↓	Down menu option
OK	Confirm
MENU	Menu options/Return to
EXIT	Exit Options
MUTE	Mute Option
UPGRADE	Software Upgrade

VII. Connection Diagram
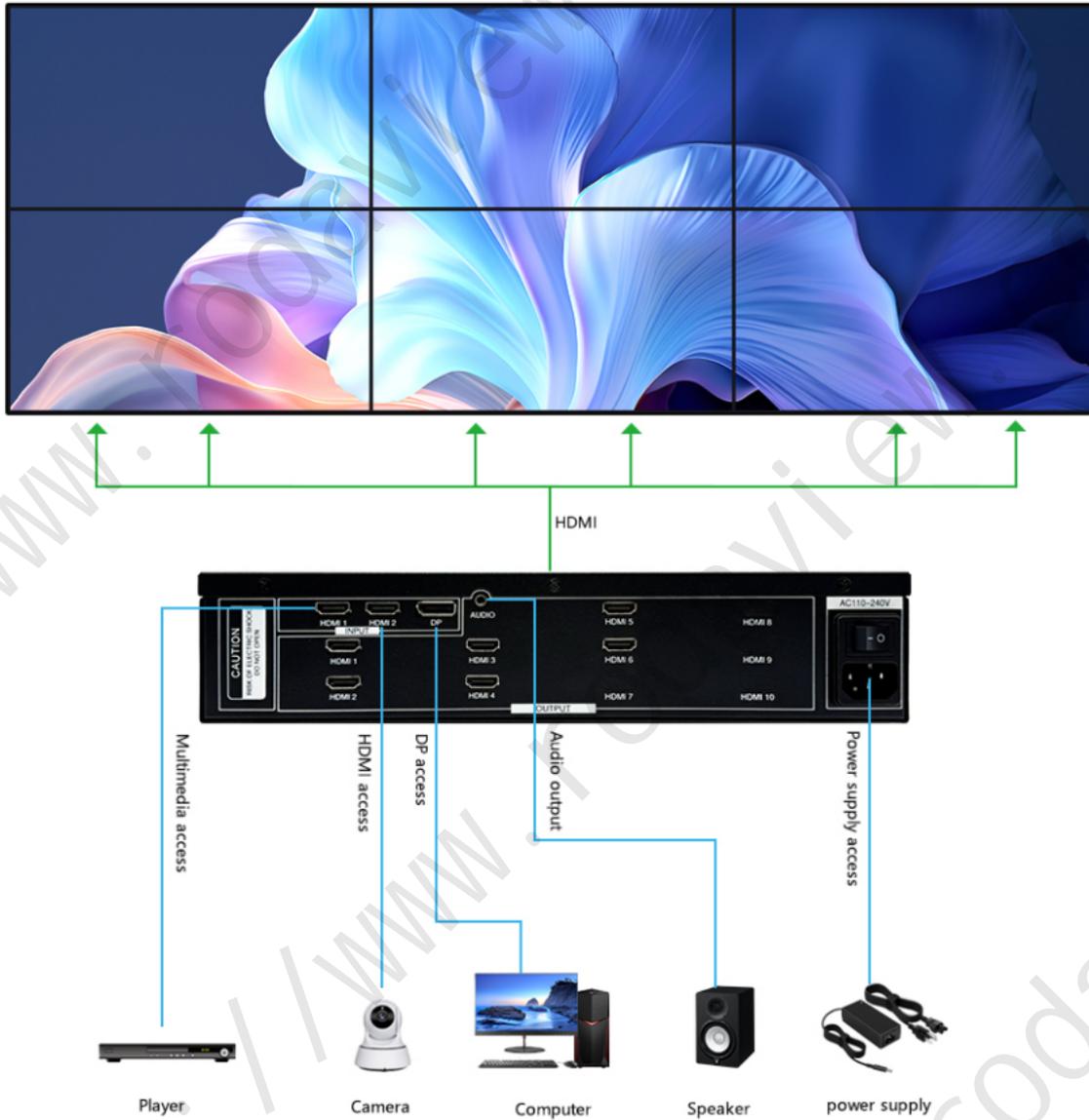
VIII. Splice Mode Preview

Horizontal splicing mode

2x2

2x1

3x1

4x1

1x2

1x3

1x4

Vertical screen splicing mode

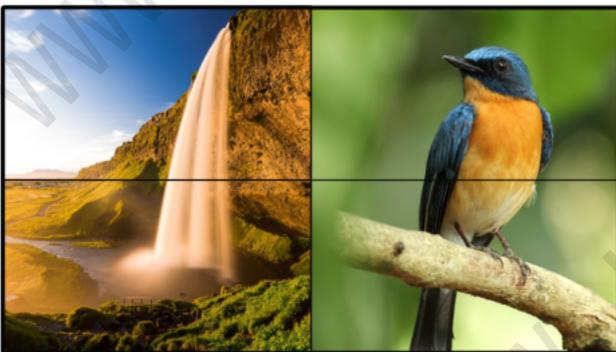

1x2

2x2

1x3

1x4

IX. Window mode preview

PIP

POP

PBP

4P

X.Product Physical Diagram

Front View

Rear View

Left/Right View