2K Video Wall Controller 6output Product Specification

Model: RDTV2K-09

I. Product Overview

The 2K TV Video Wall Controller supports a maximum resolution of 1920x1080@60Hz HDMI 4:4:4 input and is compatible with HDCP 1.4. It supports routing any input to 9 HDMI outputs. Users can select different video wall modes via the remote control or panel buttons, such as 3×3 video wall mode. It also supports landscape video wall mode.

This 2K TV video wall controller provides a solution for home, office, digital entertainment, conference 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 9 video inputs and can be connected to LCD TVs or other display devices to customize various video wall modes according to user requirements.

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

3. The product uses a high-definition processing chip, supporting 1080P signal input and output.

4. The product is equipped with infrared remote control and front panel buttons, allowing users to perform one-touch quick control and full-function control via buttons or remote control, offering a simple

and convenient experience. It can also be controlled via RS-232 for central control and further functional expansion.

5. The product supports 1 VGA input, 1 DVI input, 1 USB input, and 1 HDMI input. All input signals can be switched to the large screen for display.

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

7. Supports 180-degree rotation of any video wall screen.

8. The product features built-in scrolling subtitle functionality, allowing users to adjust subtitle position, scrolling speed, font size, text color, and background color via the RS-232 communication interface using the included control software.

9. The product features built-in image zoom and cropping functionality, allowing users to zoom in, zoom out, and crop the large screen image using the built-in control software or remote control menu.

10. Supports border elimination technology. Without border elimination, the image may appear visually stretched. After border elimination, the image remains distortion-free, stretched, and visually natural and realistic.

11. Supports USB connectivity; simply insert a USB drive to directly decode and play videos, images, MP3 files, documents, etc. No additional front-end devices are required, making it simple and

practical.

12. Supports remote control operation via an infrared remote control, enabling all settings, switching, and adjustment functions of the video wall processor; the remote control features ultra-sensitive design with a control range of 7 to 10 meters.

III. Technical Specifications

| Category	Item	Technical Parameters
Input Signal	HDMI	HDMI 1.4 with embedded audio; Supports 640×480 to 1920×1080@60Hz
	DVI	DVI-I (24+5) interface; Supports 640×480 to 1920×1080@60Hz
	VGA	HD15 connector with integrated 3.5mm audio input; Supports 640×480 to 3840×2160@60Hz *(resolution depends on display/cable capability)*
	USB 2.0	Standard USB-A port; Decodes video/audio/images, plays TXT files; Supports playlist loop, pause, fast-forward
Output Signal	HDMI 1-9	Tiling modes: 1×1、3×3、2×4、4×2; Max output: 1920×1080@60Hz

| Category	Item	Technical Parameters
Audio Output	3.5mm Jack	Stereo audio (L/R channels); Sync-switching with video
others	Power Supply	AC 110-220V (auto-sensing)
	Power Consumption	36W (typical)
	Tiling Mode	Quick Alignment Mode *(one-time configuration)*
	Control	Infrared remote, front panel buttons, RS-232
Physical Specs	Net Weight	2.7kg
	Gross Weight	3.6kg
	Dimensions	442×240×52mm (L×W×H)
Packaging	Box Size	515×315×105mm (L×W×H)
	Contents	1× Main unit, 1× Power cable, 1× Remote, 1× Warranty card, 1× adapter, 1× Software CD, 2× Mounting brackets, 8× Screws, 1× User manual.

IV. Product Dimensions

Front panel

Rear panel
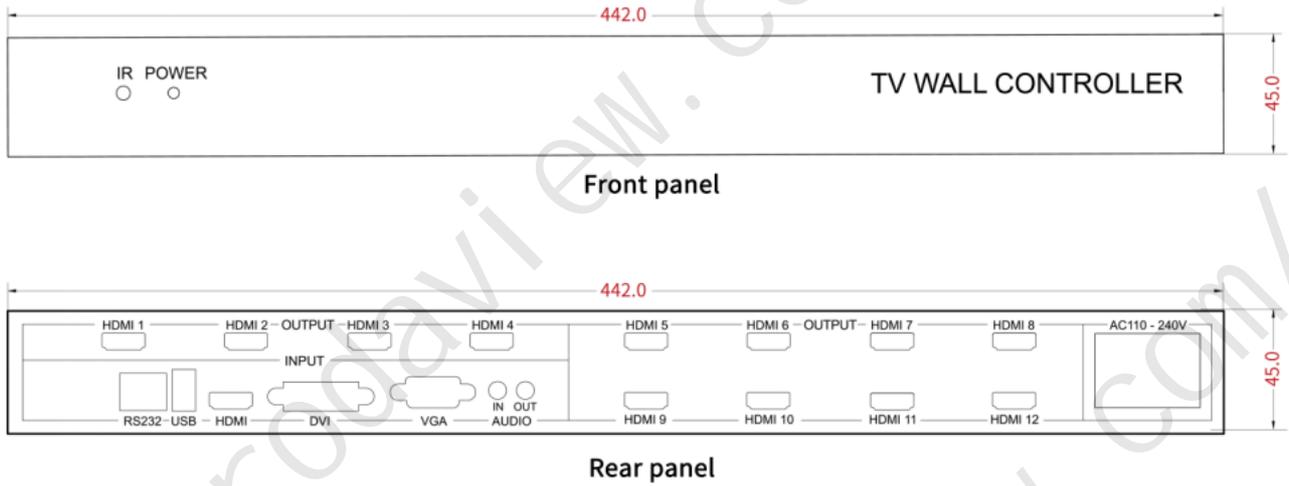
V. Panel Buttons and Port Description

1. Front Panel Button Functions
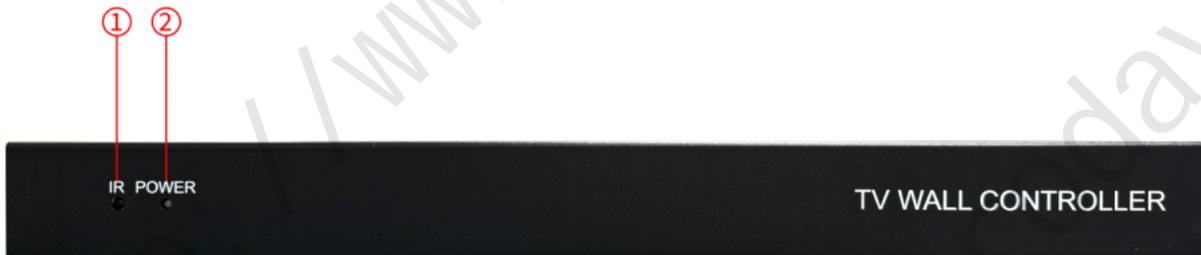
Serial Number	Button Name	Description
1	IR	Infrared receiver port
2	POWER	Power switch indicator light

2. Port Description
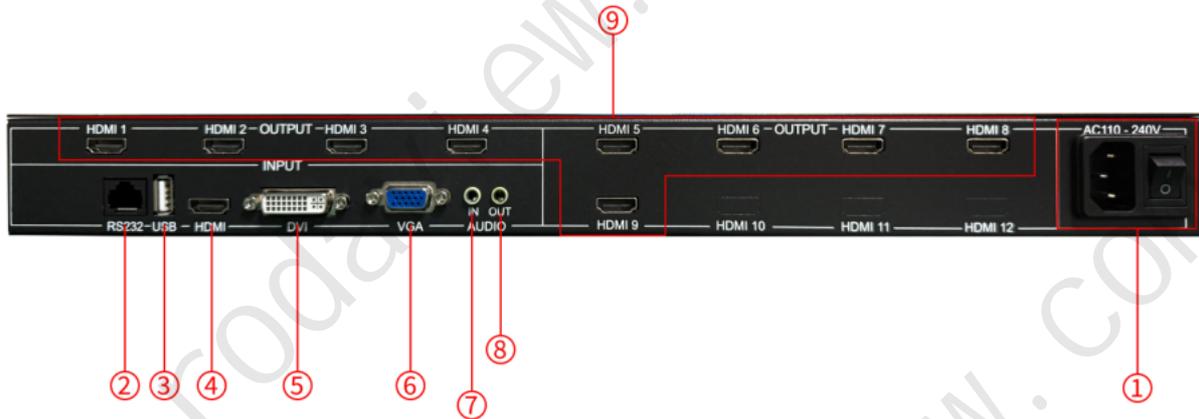
Section	No.	Interface	Description
INPUT	1	AC 110–220V	Power Input (Auto-sensing)
	2	RS-232	Serial Control Input
	3	USB	USB Host Port
	4	HDMI	HDMI Video/Audio Input (1080p@60Hz)
	5	DVI	DVI-D Digital Video Input
	6	VGA	VGA Analog Video Input
	7	AUDIO-IN	3.5mm Stereo Audio Input
OUTPUT	8	AUDIO-OUT	3.5mm Stereo Audio Output (Line-level)
	9	HDMI 1–9	HDMI Output Ports 1 to 9

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

2x2

2x1

3x1

4x1

1x2

1x3

1x4

2x4

4x2
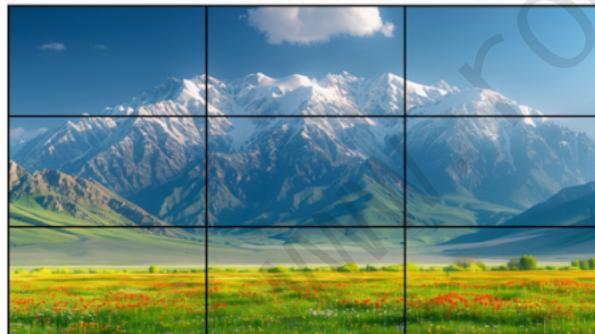
3x3

IX. Product Physical Diagram

Front View
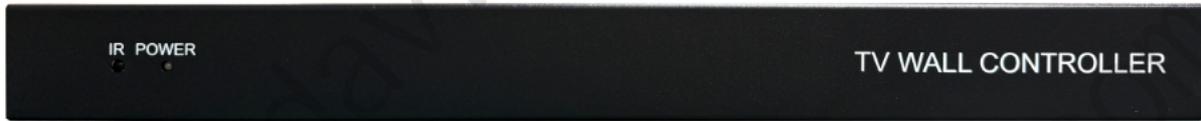
Rear View

Left/Right View