KRAMER

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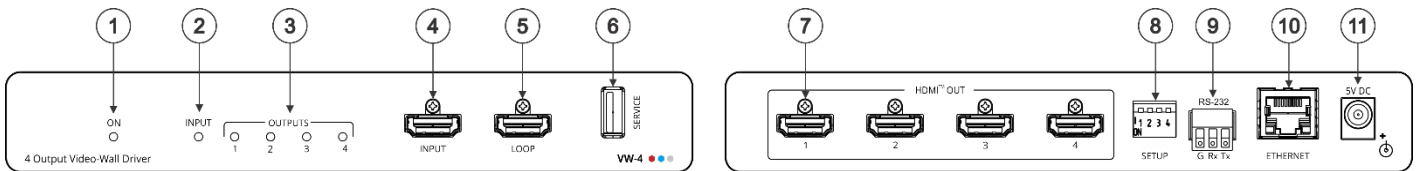
VW-4 Quick Start Guide

This guide helps you install and use your **VW-4** for the first time.

Go to www.kramerav.com/downloads/VW-4 to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

- ☑ **VW-4 4 Output Video-Wall Driver**
- ☑ 1 Power adapter and cord
- ☑ 1 Bracket set
- ☑ 4 Rubber feet
- ☑ 1 Quick start guide

Step 2: Get to know your VW-4
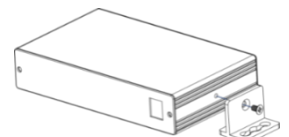
#	Feature	Function
1	ON LED	Lights green when the device is powered.
2	INPUT LED	Lights green when a valid input signal is detected on the input.
3	OUTPUT LEDs (1 to 4)	Light green when an acceptor is detected on that output.
4	INPUT HDMI Connector	Connect to an HDMI source.
5	LOOP HDMI Connector	Connect to an additional **VW-4** device for configuring a large video wall or to a local monitor.
6	SERVICE USB Port	Use to perform firmware upgrade.
7	OUT HDMI Connectors (1 to 4)	Connect to up to 4 HDMI acceptors that make up the video wall configuration. The appropriate segments of the zoomed picture are output on these connectors for connection to the displays in the video-wall. ⓘ The output on these connectors is at 1080P resolution.
8	SETUP 4-way DIP-switch	For fast, basic configuration of the device without needing to be connected to a PC, see Step 6: Configure VW-4.
9	RS-232 3-pin terminal block connector	Use to setup and monitor the **VW-4** via the Windows software and to upgrade the firmware.
10	ETHERNET RJ-45 Connector	Connect to a PC via a LAN to setup and monitor the **VW-4** via the configuration app.
11	5V DC Connector	Connect to the supplied power adapter.

Step 3: Mount VW-4

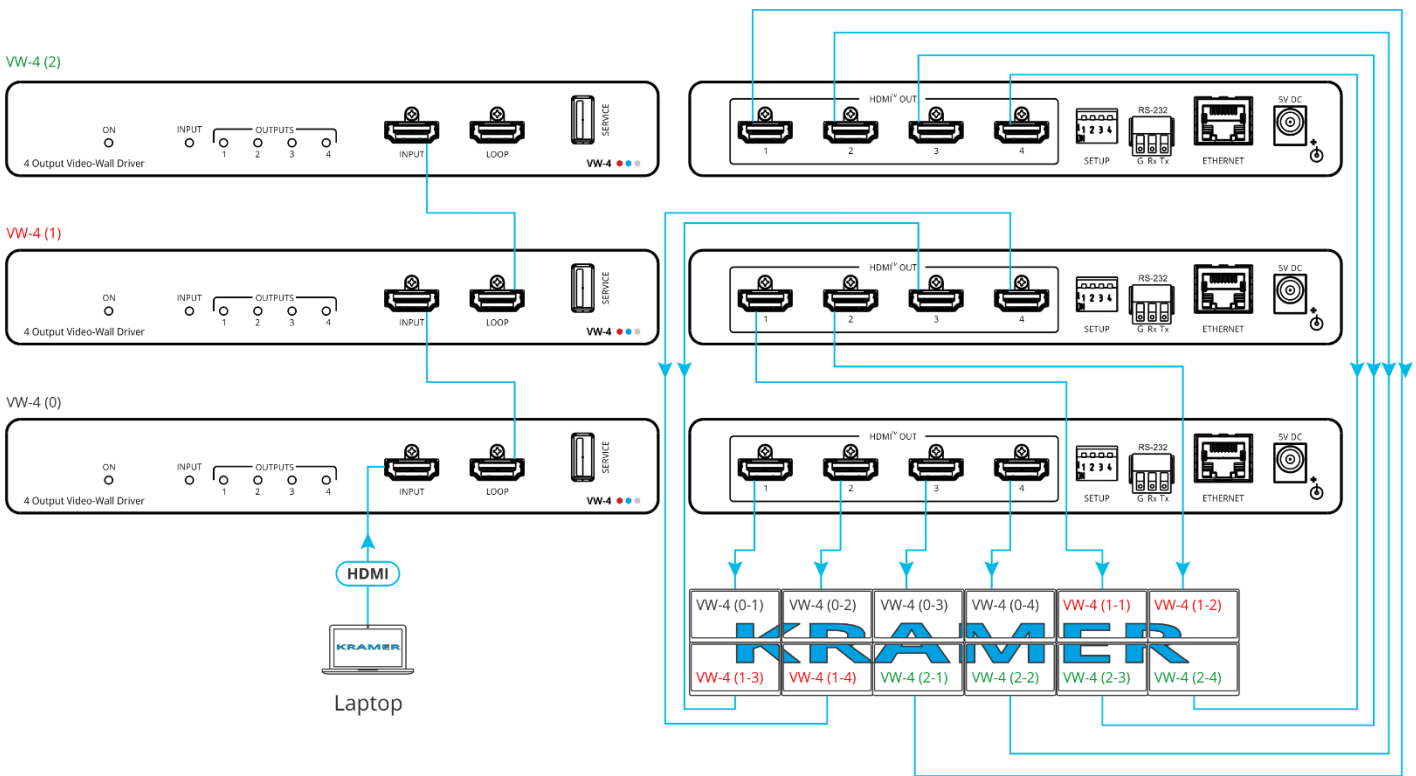Install **VW-4** using one of the following methods:

- Attach the rubber feet and place the unit on a flat surface.
- Fasten a bracket (included) on each side of the unit and attach it to a flat surface (see www.kramerav.com/downloads/VW-4).
- Mount the unit in a rack using the recommended rack adapter (see www.kramerav.com/product/VW-4).

⚠️
- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment should be maintained.
- Maximum mounting height for the device is 2 meters.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

P/N: 2900-301453QS   Rev: 2

Step 4: Connect inputs and outputs

The three devices in this 6x2 diagram are designated 0, 1 and 2. Each output is designated by the device number and its outputs. For example, VW-4 (1) is the second device in this video wall configuration and VW-4 (1-2) is HDMI OUT 2 on that device.

Step 5: Connect power

Connect the power adapter to **VW-4** and plug it into the mains electricity.

Safety Instructions (See www.kramerav.com for updated safety information)
Caution:
- For products with relay terminals and GPI\O ports, please refer to the permitted rating for an external connection, located next to the terminal or in the User Manual.
- There are no operator serviceable parts inside the unit.

Warning:
- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.

Step 6: Configure VW-4

Configure **VW-4** via:

- DIP-switch settings – for basic video wall configuration.
- **VW-4** app, via the Ethernet or RS-232.
- Remotely, by RS-232 serial commands transmitted by a touch screen system, PC, or other serial controller.

RS-232 Control / Protocol 3000			
Baud Rate:	115,200	Parity:	None
Data Bits:	8	Command Format:	ASCII
Stop Bits:	1		
Example: (Set Auto-sync Off to Fast): #SCLR-AS 1,2			
Default Ethernet Parameters			
IP Address:	192.168.1.39	Gateway:	192.168.0.1
Subnet mask:	255.255.0.0	TCP Port #:	5000

Video Wall Configuration via DIP-switch Settings

You can use the DIP-switch settings to quickly configure a basic video wall (without bezel correction) of up to 4x4, consisting of 1 or more **VW-4** devices.

ⓘ When the video wall size is configured using the DIP-switches, it is not possible to set it up via the configuration app. (To use the app, make sure that the DIP-switches are all OFF).
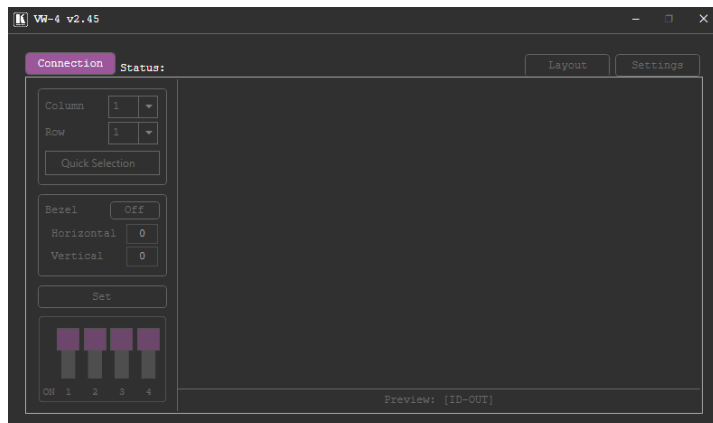
DIP 1	DIP 2	DIP 3	DIP 4	Columns x Rows Layout	Notes
OFF	OFF	OFF	OFF	Basic setup is not used (default)	
OFF	OFF	OFF	ON	Full size picture ("1x1" wall)	Image appears on all displays.
OFF	OFF	ON	OFF	N/A	
OFF	OFF	ON	ON	N/A	
One **VW-4** Device					
OFF	ON	OFF	OFF	2x2 wall (0)	VW-4 (0) OUT 1, VW-4 (0) OUT 2, VW-4 (0) OUT 3, VW-4 (0) OUT 4
OFF	ON	OFF	ON	4x1 wall (0)	VW-4 (0) OUT 1, VW-4 (0) OUT 2, VW-4 (0) OUT 3, VW-4 (0) OUT 4
OFF	ON	ON	OFF	1x4 wall (0)	VW-4 (0) OUT 1 / VW-4 (0) OUT 2 / VW-4 (0) OUT 3 / VW-4 (0) OUT 4
OFF	ON	ON	ON	N/A	
Three **VW-4** Devices					
ON	OFF	OFF	OFF	3x3 wall, first unit (0)	VW-4 (0) OUT 1, VW-4 (0) OUT 2, VW-4 (0) OUT 3
ON	OFF	OFF	ON	3x3 wall, second unit (1)	VW-4 (0) OUT 4, VW-4 (1) OUT 1, VW-4 (1) OUT 2
ON	OFF	ON	OFF	3x3 wall, third unit (2)	VW-4 (1) OUT 3, VW-4 (1) OUT 4, VW-4 (2) OUT 1
ON	OFF	ON	ON	N/A	
Four **VW-4** Devices					
ON	ON	OFF	OFF	4x4 wall, first unit (0)	VW-4 (0) OUT 1, VW-4 (0) OUT 2, VW-4 (0) OUT 3, VW-4 (0) OUT 4
ON	ON	OFF	ON	4x4 wall, second unit (1)	VW-4 (1) OUT 1, VW-4 (1) OUT 2, VW-4 (1) OUT 3, VW-4 (1) OUT 4
ON	ON	ON	OFF	4x4 wall, third unit (2)	VW-4 (2) OUT 1, VW-4 (2) OUT 2, VW-4 (2) OUT 3, VW-4 (2) OUT 4
ON	ON	ON	ON	4x4 wall, fourth unit (3)	VW-4 (3) OUT 1, VW-4 (3) OUT 2, VW-4 (3) OUT 3, VW-4 (3) OUT 4

Video Wall Configuration via the configuration app

Use the **VW-4** Windows® Control Software app to configure a video wall of up to 8x8, consisting of 1 or more **VW-4** devices (see www.kramerav.com/product/VW-4#Tab_Resources).

To configure the video wall (for example, a 3x2 video wall, using 2 devices):

1. Download the latest **VW-4** Control Software app from www.kramerav.com/product/VW-4#Tab_Resources.
2. Open the app.
3. **Click Connection**.
   The Connection window opens, showing a list of all the connected **VW-4** devices and the available RS-232 ports on your PC. The Connection window opens.
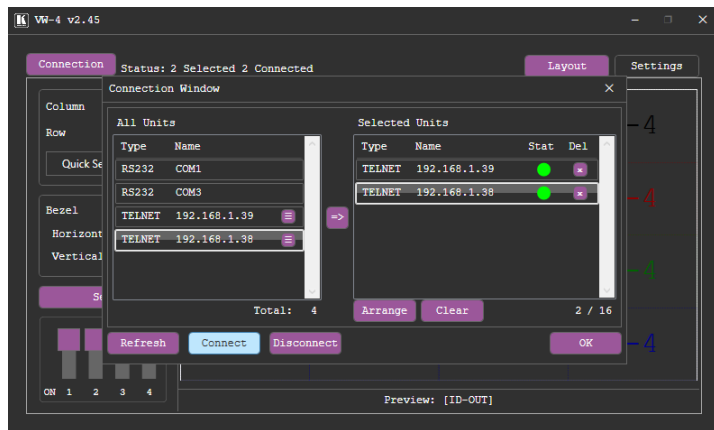
4. Select a device under All Units and click ⇒.
The selected device moves to the Selected Units area.
5. Add the other connected devices.
6. Click **OK**.

7. Select the Settings tab and then select the Output tab.
8. If you need to change the device ID, enter the new ID under ID-NAME and press Enter on your keyboard.

   ⓘ You can set the ID number individually only when the device is directly connected to your PC.
   The ID number is set to each device, and according to that number each device is assigned its physical position in the video wall setup.
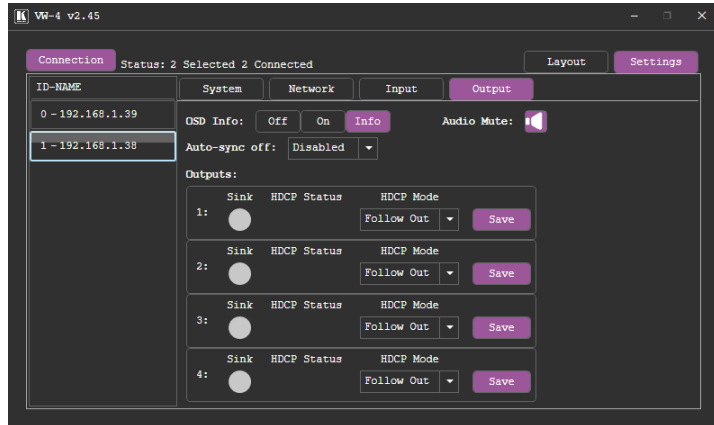9. View the sink status of each device output and:
   ▪ Set OSD Info.
   ▪ Define Auto-Sync Off status.
   ▪ Set the HDCP per output and click **Save**.

10. Select the Layout tab.
11. Set the video wall size by either:
    ▪ Selecting Column and Row numbers (for example, 3 x 2). OR
    ▪ Clicking **Quick Selection** for common video wall configurations.
12. Select horizontal and vertical bezel corrections (in pixels).

For each connected device, **VW-4** App also enables performing factory reset, upgrading the firmware, viewing network settings and copying the EDID to the input from a selected EDID source.