

VW-MVIEW4X1 Controller Software & Firmware Update Guide

HDMI 4×1 Quad Multi-View Seamless Switcher 4K@60 4:4:4 — PC control over RS-232

The 4K60 Multi-Viewer Controller is a Windows application that controls the VW-MVIEW4X1 from a PC over its RS-232 port: display mode, the source in each window, PIP position and size, output resolution, HDCP, audio, EDID, factory reset and reboot. It is also how the unit's firmware is updated.

ITEM	DETAIL
Software	4K60 Multi-Viewer Controller for Windows, version 1.0.11
Connection	RS-232, the 3-pin 3.81mm Phoenix connector on the rear panel
Serial settings	115200 baud, 8 data bits, 1 stop bit, no parity
Current firmware	MCU V1.00.15 and scaler 2025-03-03 (released May 2025)
Firmware the software needs	MCU V1.00.09 and scaler 2022-12-22, or later
Network control	Not supported on this model: TCP/IP Control Mode stays greyed out

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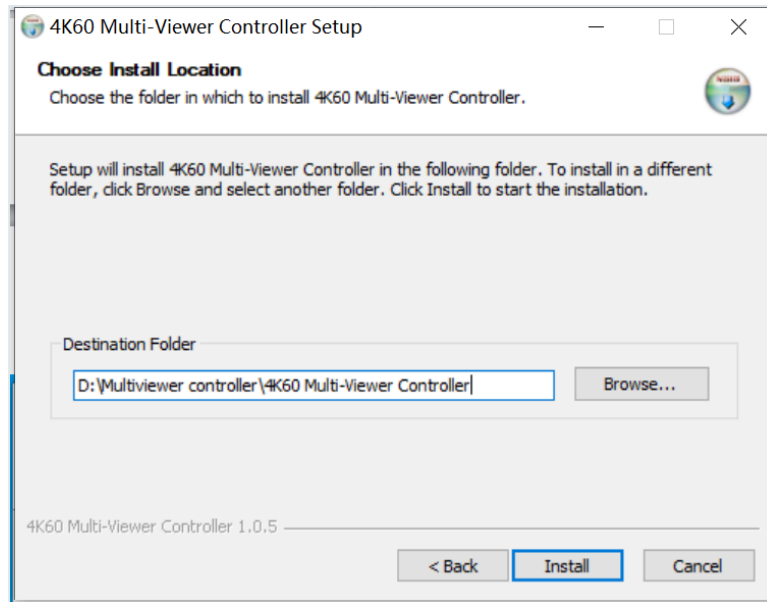
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1. Before You Start

- A Windows PC with a serial (COM) port, or a USB-to-RS-232 adapter with its driver installed.
- The 3-pin Phoenix connector supplied with the VW-MVIEW4X1, wired to the PC's serial cable: the PC's TX to the unit's RX, the PC's RX to the unit's TX, and ground to ground.
- The unit powered on and connected to its display.
To see which firmware a unit has, connect with the software (section 3): **Device Information** shows the version. From a terminal program, send `r fw version!`.

2. Install the Software

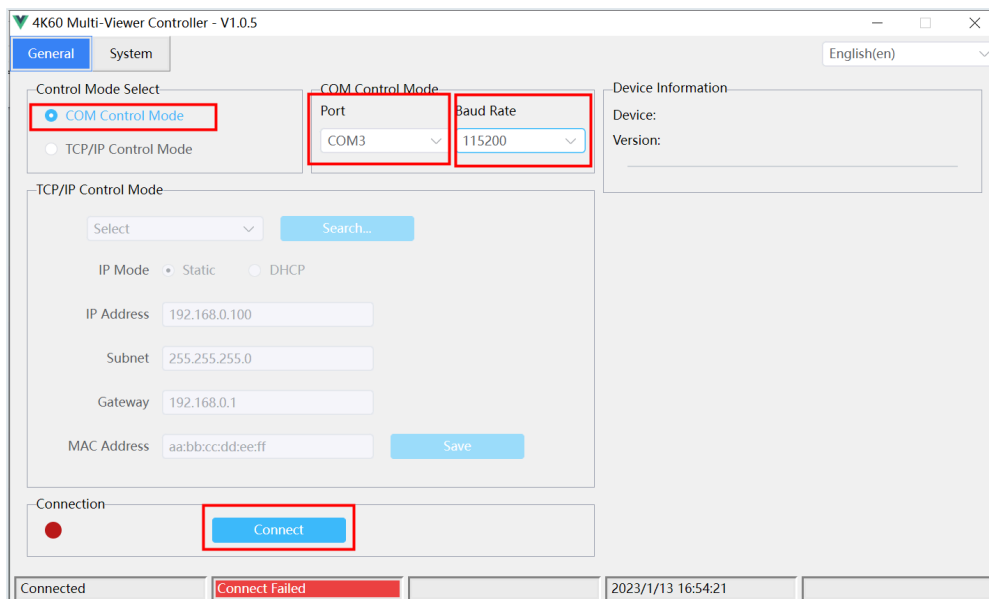
1. Run **4K60 Multi-Viewer Controller Setup 1.0.11.exe**.
2. Choose **Anyone who uses this computer (all users)** and click **Next**.
3. Choose the installation folder and click **Install**.
4. When the installation completes, click **Finish** to start the software.



Choosing the installation folder

3. Connect to the VW-MVIEW4X1

1. Connect the PC to the unit's RS-232 port.
2. Open the 4K60 Multi-Viewer Controller.
3. Select **COM Control Mode**, choose the PC's COM port and **115200** baud, then click **Connect**.
4. The status bar shows **Connect Succeed** and Device Information shows the unit and its firmware. Click **Device Status** at any time to refresh it.

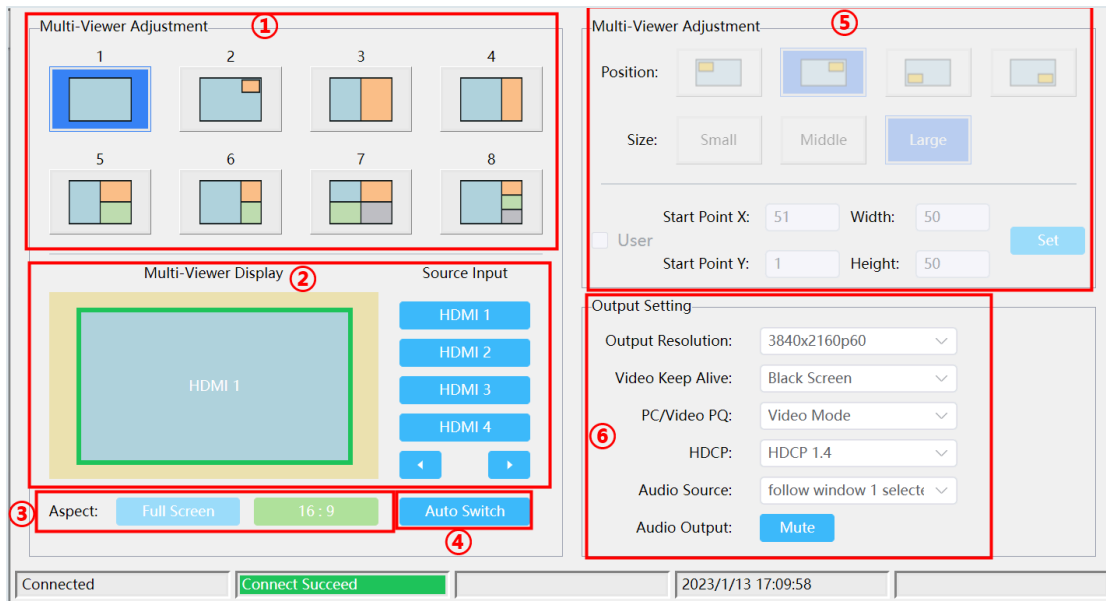


The General page: COM port, baud rate and Connect. Screens may differ slightly by software version.



4. Output Control

Click **Output 1** (the VW-MVIEW4X1 has one output).



The output page

No.	Name	Function
1	Multi-Viewer Adjustment	The eight display modes: SINGLE, PIP, PBP (1), PBP (2), Triple (1), Triple (2), Quad (1), Quad (2).
2	Multi-Viewer Display / Source Input	Choose the HDMI source shown in each window.
3	Aspect	Full screen or 16:9, in PBP (1), PBP (2), Triple (1), Triple (2) and Quad (2).
4	Auto Switch	Switches automatically to the next active input. SINGLE mode only.
5	PIP Adjustment	In PIP mode: the small window's position and size, or a custom position and size (User).
6	Output Setting	Output resolution, video keep-alive screen, PC/video picture mode, HDCP, audio source and mute.



5. System Settings

Click **System**.

The system page

No.	Name	Function
1	EDID Mode Control	The EDID the inputs present to the sources.
2	Factory Reset	Returns every setting to its factory default.
3	System Reboot	Restarts the unit.
4	Firmware Upgrade	Loads a firmware file into the unit (section 6).

6. Update the Firmware

Before you update — update only to fix a problem the release notes describe. Keep the unit powered and the RS-232 cable connected until the update has finished: an interrupted update can leave the unit unable to start.

The firmware has two files, updated one at a time: VW-MVIEW4X1_MCU_V1.00.15.bin (the main controller) and VW-MVIEW4X1_SCALER_20250303.bin (the video scaler).

1. Power on the unit and wait until it has started.
2. Connect with the software as in section 3.
3. On the **System** page, under **Firmware Upgrade**, click the folder button and open VW-MVIEW4X1_MCU_V1.00.15.bin.
4. Click **Upgrade** and wait until Upgrade Progress reaches 100%.
5. Repeat steps 3 and 4 with VW-MVIEW4X1_SCALER_20250303.bin.
6. Click **Reboot**, connect again, and check the version under Device Information.

7. Firmware Release History

VERSION	RELEASED	CHANGES
MCU V1.00.15, scaler 2025-03-03	May 2025	The RES button (front panel or IR remote) steps through the output resolutions and skips any the display does not support. Faster picture on input 4. Built-in EDID updated. The default output resolution is Auto. Better compatibility, and fixes.
MCU V1.00.13	March 2025	The source label in each window is off by default. Better compatibility, and fixes.
MCU V1.00.12, scaler 2024-03-28	March 2024	For controller software 1.0.11. Adds the commands <code>s window source osd x!</code> and <code>r window source osd!</code> . Fixes.



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VERSION	RELEASED	CHANGES
MCU V1.00.11, scaler 2024-03-08	March 2024	For controller software 1.0.10. Better compatibility and faster picture on input 4; quicker command replies; Auto output resolution added. Fixed: unplugging one input in a multi-window mode could blank another window; window 2 in the four-window mode with a 1080i input; a 16:9 multi-window setting carried into SINGLE and PIP.

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