MT-VIKI VC-HD0801

MT-VIKI 8-Port Rack Mount HDMI Switch User Manual

Model: VC-HD0801

1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of the MT-VIKI 8-Port Rack Mount HDMI Switch (Model VC-HD0801). This device allows you to connect up to eight HDMI source devices to a single HDMI display, supporting resolutions up to 4K@60Hz (4:4:4) and HDCP2.2. It is designed for various applications including home theaters, conference rooms, and data centers.

Image: The MT-VIKI 8-Port Rack Mount HDMI Switch, showing its front and rear panels, along with the included remote control.

2. PRODUCT FEATURES

- **8 HDMI Inputs, 1 HDMI Output:** Connects up to eight HDMI source devices to one HDMI display.

- **High Resolution Support:** Supports resolutions up to 4K@60Hz (4:4:4).

- **HDCP 2.2 Compliant:** Ensures compatibility with the latest content protection standards.

- **Multiple Switching Options:** Includes front panel buttons, IR remote control, RS232 serial control, and automatic switching.

- **Auto Scanning:** Features an auto-scan function to cycle through inputs at preset intervals (0-5940 seconds).

- **EDID Emulation:** Built-in EDID emulators ensure correct display information for connected PCs.

- **Hot Plug Support:** Allows devices to be connected or disconnected without powering off the switch.

- **Rack Mountable:** Designed for standard 1U height and 19-inch rack/cabinet installation with included rack ears.

- **Power Failure Memory:** Retains the last selected input after a power cycle.

Image: Visual representation of the key features of the MT-VIKI HDMI Switch, highlighting 4K@60Hz, HDCP 2.2, Auto Scan, Auto Switching, RS232, IR Remote Control, 19" Rack compatibility, and Power Failure Memory Recovery.

3. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon opening the package:

- 1 x MT-VIKI 8-Port Rack Mount HDMI Switch (VC-HD0801)
- 1 x IR Remote Control
- 1 x DC 12V Power Adapter
- 2 x Rack Mount Ears
- 1 x User Manual

Image: The complete package contents of the MT-VIKI 8-Port HDMI Switch, laid out next to its box.

4. SETUP AND INSTALLATION

4.1 Physical Installation

The MT-VIKI HDMI Switch can be placed on a flat surface or mounted into a standard 19-inch equipment rack.

Rack Mounting:

1. Attach the two included rack mount ears to the sides of the HDMI switch using the provided screws.
2. Secure the switch into your 19-inch rack using appropriate rack screws (not included).

19" Rack mount

With 2 rack ears, 1U size can be mounted

Image: The MT-VIKI 8-Port HDMI Switch shown with its rack mount ears, illustrating how it fits into a standard 19-inch rack.

4.2 Connection Diagram

Follow these steps to connect your devices to the HDMI switch:

1. Ensure all devices (HDMI sources, display, and the switch) are powered off before making connections.
2. Connect your HDMI source devices (e.g., PS5, computer, laptop, media box) to the HDMI input ports (PC1-PC8) on the rear panel of the switch using high-quality HDMI 2.0 or 2.1 cables.
3. Connect your HDMI display (e.g., TV, monitor, projector) to the HDMI output port on the rear panel of the switch.
4. (Optional) For RS232 control, connect an RS232 cable from your control system to the RS232 port on the switch.
5. Connect the DC 12V power adapter to the power input port on the switch, then plug the adapter into a power outlet.
6. Power on the HDMI display first, then power on the HDMI switch, and finally power on your HDMI source devices.

Connection Diagram

Image: A detailed connection diagram illustrating how to connect various HDMI source devices (such as gaming consoles, computers, laptops, and media players) to the MT-VIKI 8-Port HDMI Switch, and then connect the switch to a display device (like a TV, monitor, or projector).

5. OPERATING INSTRUCTIONS
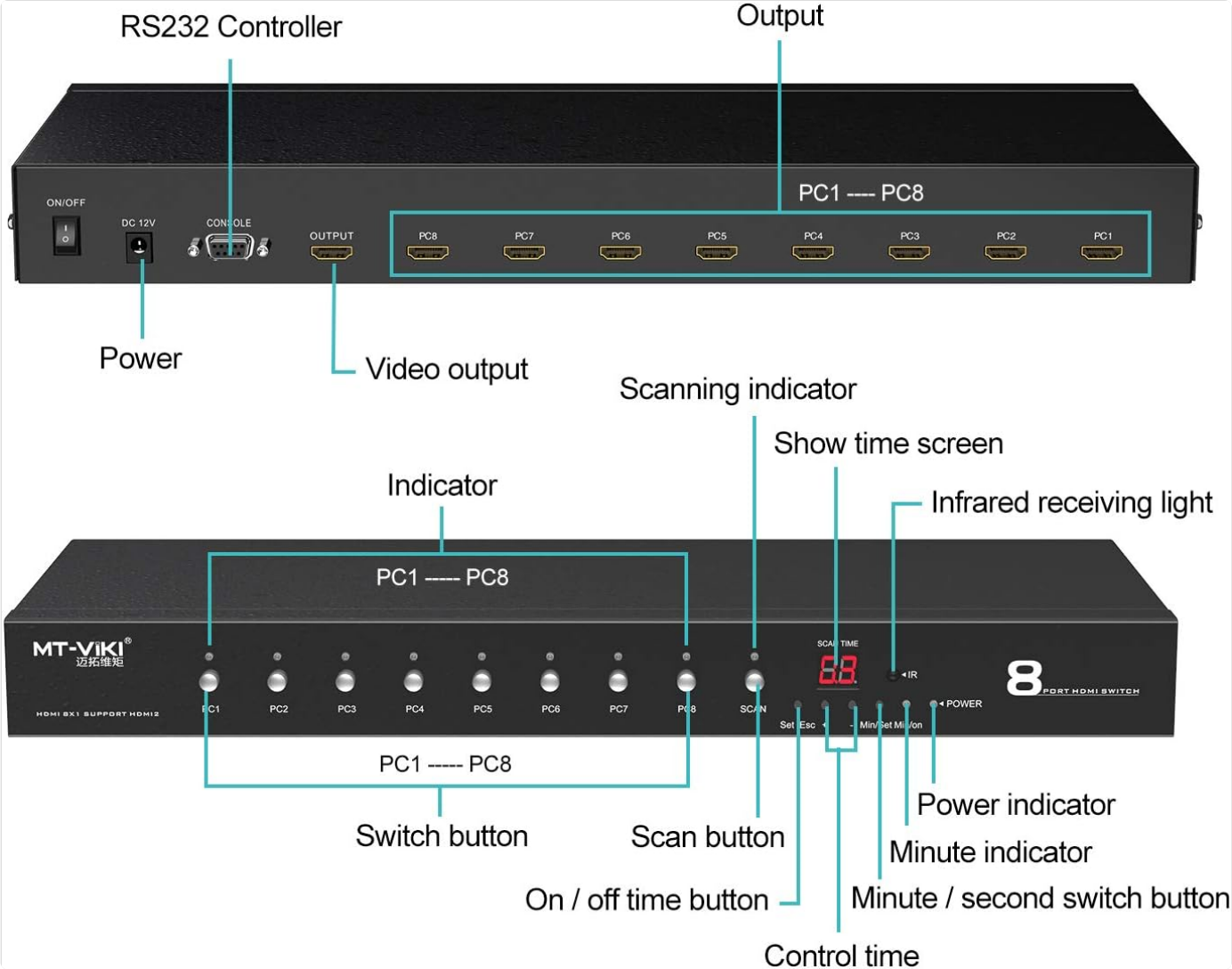
5.1 Front Panel Overview

Image: Detailed diagram of the front and rear panels of the MT-VIKI 8-Port HDMI Switch, labeling all buttons, indicators, and connection ports for clear identification.

Front Panel Controls and Indicators

Component	Description
PC1-PC8 Buttons	Press to manually switch to the corresponding HDMI input port.
Indicators (PC1-PC8)	LEDs illuminate to indicate the currently selected input port.
SCAN Button	Activates or deactivates the auto-scan function.
+/- Buttons	Adjusts the auto-scan interval time.
Set/Exit Button	Confirms scan time setting or exits menu.
M/S Button	Switches between minute and second display for scan time.
Display Screen	Shows the current scan time or selected input.
IR Receiver	Receives signals from the IR remote control.
Power Indicator	Illuminates when the device is powered on.

5.2 Switching Methods

The MT-VIKI HDMI Switch offers four methods for switching between input sources:

- **Front Panel Buttons:** Directly press the PC1-PC8 buttons on the front panel to select the desired input.
- **IR Remote Control:** Use the included IR remote control to switch inputs from a distance. Point the remote towards the IR receiver on the front panel.
- **RS232 Control:** For advanced integration, the switch can be controlled via RS232 serial commands. Refer to the RS232 command set in the Appendix (if applicable, or state it's for advanced users).
- **Auto Switch:** The switch can automatically detect and switch to the last powered-on or active input source.
- **Auto Scan:** The switch can automatically cycle through all active input sources at a user-defined interval.
  - To activate: Press the "SCAN" button.
  - To adjust interval: Use the "+/-" buttons to set the time (0-5940 seconds). Press "M/S" to toggle between minutes and seconds. Press "Set/Exit" to confirm.
  - To deactivate: Press the "SCAN" button again.

Image: An illustration demonstrating the various methods available for switching inputs on the MT-VIKI HDMI Switch, including manual buttons on the front panel, infrared remote control, RS232 serial communication, and automatic switching features.

6. TROUBLESHOOTING

If you encounter issues with your MT-VIKI HDMI Switch, please refer to the following common troubleshooting steps:

Troubleshooting Guide

Problem	Possible Cause	Solution
No video output / Black screen	○ Loose HDMI cables. ○ Incorrect input selected. ○ Incompatible resolution/refresh rate. ○ HDCP issue. ○ Power issue.	○ Ensure all HDMI cables are securely connected. ○ Verify the correct input is selected on the switch and display. ○ Check if your display supports the output resolution of the source. Try a lower resolution on the source. ○ Ensure both source and display support HDCP 2.2. ○ Verify the power adapter is correctly connected and the switch is powered on. ○ Try power cycling all devices (display, switch, source).
No audio output	○ Audio settings on source/display. ○ HDMI cable issue.	○ Check audio settings on your source device and display. ○ Ensure the HDMI cable supports audio transmission.
Remote control not working	○ Dead batteries. ○ Obstruction to IR receiver. ○ Remote out of range.	○ Replace batteries in the remote control. ○ Ensure there is a clear line of sight between the remote and the switch's IR receiver. ○ Operate the remote within its effective range.
Auto-switching not functioning	○ Source device not sending active signal. ○ Auto-switch feature disabled.	○ Ensure the source device is fully powered on and outputting a signal. ○ Verify the auto-switch feature is enabled (if applicable, some models have a toggle).

7. MAINTENANCE

To ensure the longevity and optimal performance of your MT-VIKI HDMI Switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosol sprays.
- **Ventilation:** Ensure proper ventilation around the unit. Do not block any ventilation openings.
- **Environment:** Operate the switch in a cool, dry environment, away from direct sunlight, heat sources, and excessive moisture.
- **Cable Management:** Keep HDMI cables and power cords neatly organized to prevent strain on ports and accidental disconnections.
- **Power Off When Not in Use:** If the device will not be used for an extended period, it is recommended to power it off and disconnect it from the power outlet.

8. SPECIFICATIONS

Technical Specifications

Feature	Detail
Model Number	VC-HD0801
HDMI Inputs	8

Feature	Detail
HDMI Output	1
Max Resolution	4K@60Hz (4:4:4)
HDCP Compliance	HDCP 2.2
Data Rate	18Gbps
Control Methods	Front Panel Buttons, IR Remote, RS232, Auto Switch, Auto Scan
Power Supply	DC 12V
Product Dimensions (L x W x H)	16.57 x 7.24 x 5.35 inches (42.09 x 18.39 x 13.59 cm)
Item Weight	4.14 pounds (1.88 kg)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)

9. WARRANTY AND SUPPORT

MT-VIKI products are designed for reliability and performance. For warranty information and technical support, please refer to the official MT-VIKI website or contact their customer service directly.

- **Official Website:** www.mt-viki.com
- **Customer Service:** Refer to the contact information provided on the product packaging or official website.

Please retain your proof of purchase for warranty claims.

10. IMPORTANT SAFETY INFORMATION

Please read and follow all safety instructions to prevent injury or damage to the device:

- Do not expose the unit to water or excessive moisture.
- Do not attempt to open or modify the unit. This will void the warranty.
- Use only the provided power adapter.
- Keep the unit away from strong electromagnetic fields.
- Ensure the unit is placed on a stable surface or securely mounted.