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BLUSTREAM MV41 4 Way Multiview HDMI Switcher

BLUSTREAM MV41 4 Way Multiview HDMI Switcher User Guide

Contents

BLUSTREAM MV41 4 Way Multiview HDMI Switcher

Product Information

Specifications

- **Model**: MV41
- **Power**: 12V/3A DC
- **Input**: HDMI, Optical S/PDIF, Analogue Audio
- **Output**: HDMI, Optical S/PDIF, Analogue Audio
- **Control Ports:** IR Control, RS-232, Trigger Port
- **Network Connectivity:** TCP/IP Port
- **Resolution Support:** Up to 4K UHD

Product Usage Instructions

Front Panel
The front panel of the MV41 includes various controls and indicators:

1. **IR Receiver Window:** Receives IR signals for remote control.
2. **Power Status LED Indicator**: Lights up when the device is powered.
3. **Select Button:** Press to switch between HDMI inputs (1 to 4) with input light confirmation.
4. **Output LED Indicator**: Shows if a display device is connected to the HDMI output.
5. **Input LED Indicators:** Display active HDMI inputs.
6. **Multi-View Button:** Toggle between multi-view modes.
7. **Resolution Button:** Change output resolutions.
8. **Upgrade Port:** Micro USB for firmware updates.

Rear Panel
The rear panel features various ports for connectivity:

1. **TCP/IP Port:** RJ45 for network control.
2. **RS-232 Port:** For RS-232 control.
3. **IR Control Input:** Connect to Blustream IR receiver for IR control.

Web-GUI Control

The MV41 comes with an in-built web-GUI for device control and configuration. Default login details:

- **Username:** bloodstream
- **Password:** 1234
- **Default IP Address:** 192.168.0.200

Refer to the user manual for more information on using the web GUI.

Multiview
MV41 supports multiview functionality, allowing you to view multiple sources simultaneously. Contact support for further assistance.
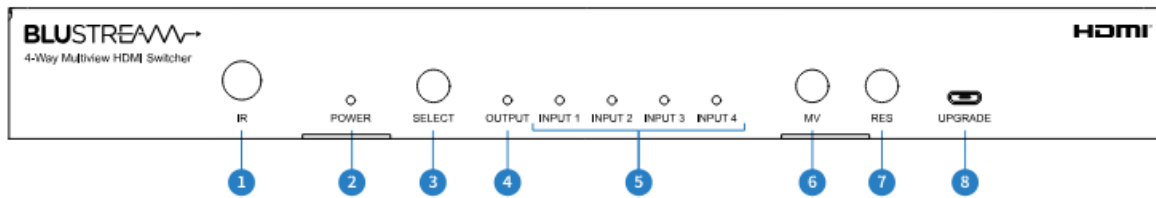
Introduction

- Our MV41 is an advanced 4×1 HDMI multi-view switcher. The MV41 allows up to 4 x HDMI 2.0 sources to be output to a single display at the same time, with pre-defined and customisable video layouts, and seamless switching. The MV41 also supports HDMI loop-through for all HDMI inputs allowing cascading of original source signals for further distribution.
- The MV41 features 2ch PCM and Optical S/PDIF audio break, with third party control achievable from the web-GUI, TCP/IP, RS-232, IR remote control, of from the front panel buttons.
- The multiple configuration and connectivity options make the MV41 suitable for both residential and commercial installations

FEATURES

- Advanced 4 x HDMI input switch with multi-view HDMI output
- Features 4 x HDMI loop out for integrating local displays or cascading to multiple devices
- Supports PIP, PBP, POP, Dual, Triple and Quad-windows layouts with pre-defined and customisable configurations
- Supports video down-scaling and HDR to SDR conversion on HDMI multi-view output
- Supports HDMI 2.0 4K UHD 60Hz 4:4:4 18Gbps specification including HDR
- Supports all industry standard video resolutions including VGA-WUXGA and 480i-4K
- Supports all known HDMI audio formats including Dolby Atmos, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission
- HDMI audio breakout to analogue L/R audio, and optical digital outputs concurrently
- Analogue L/R audio outputs support both balanced and unbalanced audio signals
- Control via front panel, IR, RS-232, TCP/IP, web-GUI and 12v trigger
- Supplied with Blustream 5v IR receiver and remote control
- 3rd party drivers available for major control brands
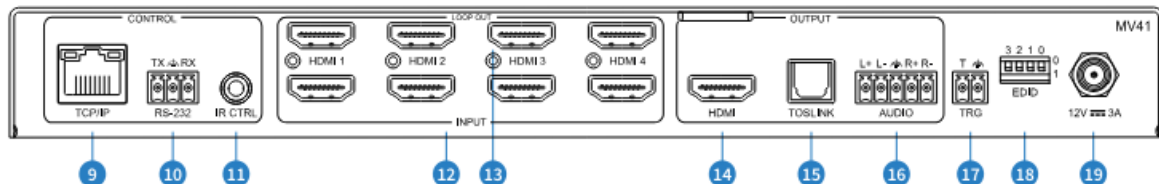- HDCP 2.3 compliant with advanced EDID management

OVERVIEW

Front Panel

1. IR Receiver Window
2. **Power Status LED Indicator** – Illuminates when the device is powered
3. **Select button –** press to toggle between HDMI inputs (1 > 2 > 3 > 4 > 1…). Input light will flash 3 times to confirm switching function enabled / disabled
4. **Output LED Indicator** – Indicates if a display device is connected to the switches HDMI output
5. **Input LED indicators** – displays the HDMI inputs currently active
6. **Multi-View Button –** Press to toggle between multiview modes
7. **Resolution Button** – Press to toggle between output resolutions
8. **Upgrade Port** – Micro USB port for firmware updates

   Rear Panel

9. **TCP/IP Port** – RJ45 connector for TCP/IP and web-GUI control of the device
10. **RS-232 Port** – 3-pin Phoenix connector for RS-232 control of the device
11. **IR Control Input** – 3.5mm stereo connector to connect to Blustream IR receiver for IR control of the device
12. **HDMI Inputs –** Connect to HDMI source devices
13. **HDMI Loop Outputs** – Connect to local HDMI devices, splits signal from corresponding HDMI input
14. **HDMI Output** – connect to local display device, Matrix, or Video over IP transmitter
15. **Optical S/PDIF Output –** De-embed digital audio from the selected HDMI input
16. **Analogue Audio Left/Right Output** – 5-pin Phoenix connector to de-embed balanced or unbalanced audio from the selected HDMI input. The source audio input must be PCM 2-channel audio for the analogue output to work.

    Please note: the MV41 does not down-mix multi-channel audio signals
17. **Trigger Port** – See User Manual on the Blustream website for more information
18. **EDID DIP switches –** See User Manual on the Blustream website for more information
19. **DC Power Port –** Use supplied Blustream 12V/3A DC adaptor to power the device

Web-GUI Control

The MV41 features an in-built web-GUI which can be used for control and configuration of the device. By default the MV41 is set to DHCP however if a DHCP server (eg: network router) is not installed, the switch IP address will revert to the below details:
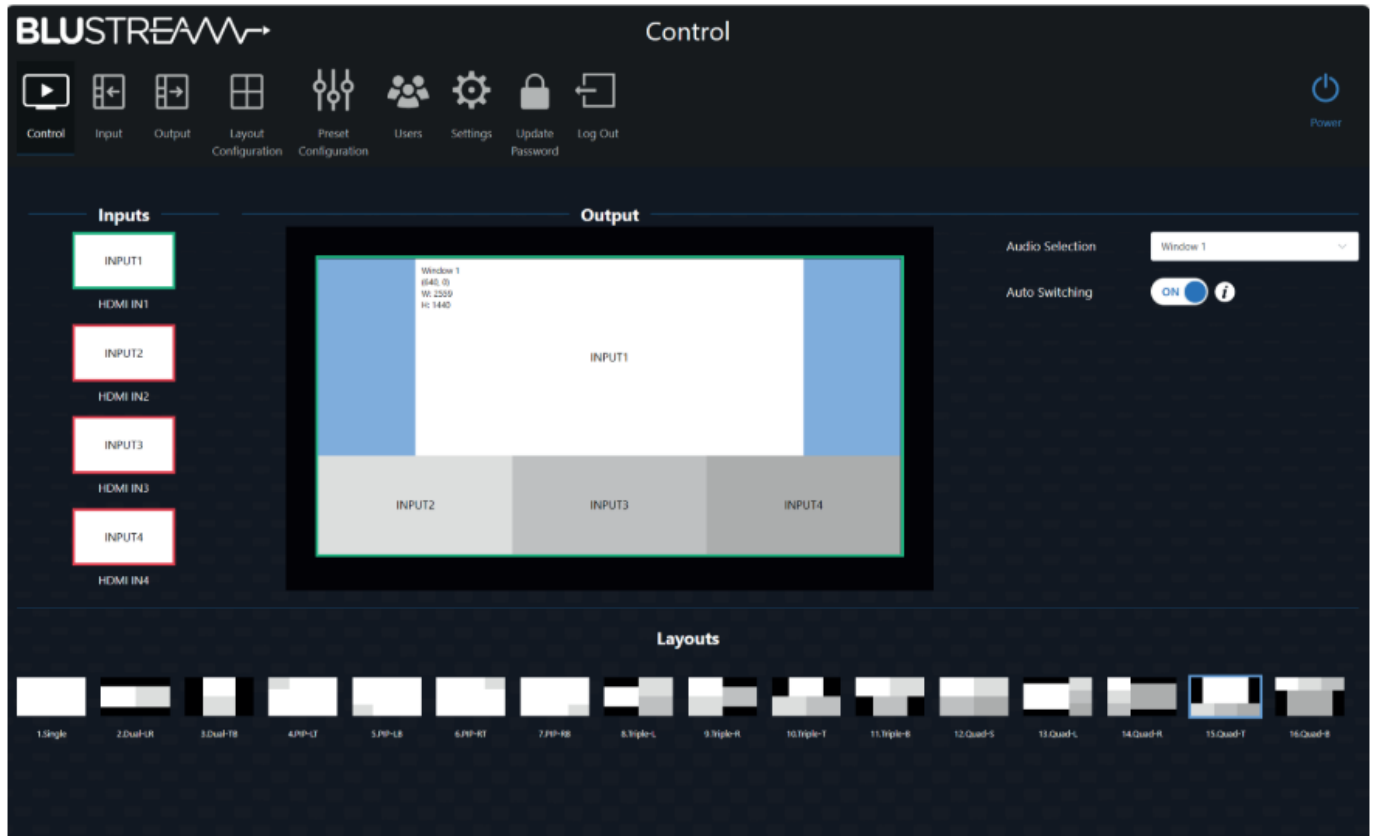
- **Default Username is**: blustream
- **Default Password is:** 1234
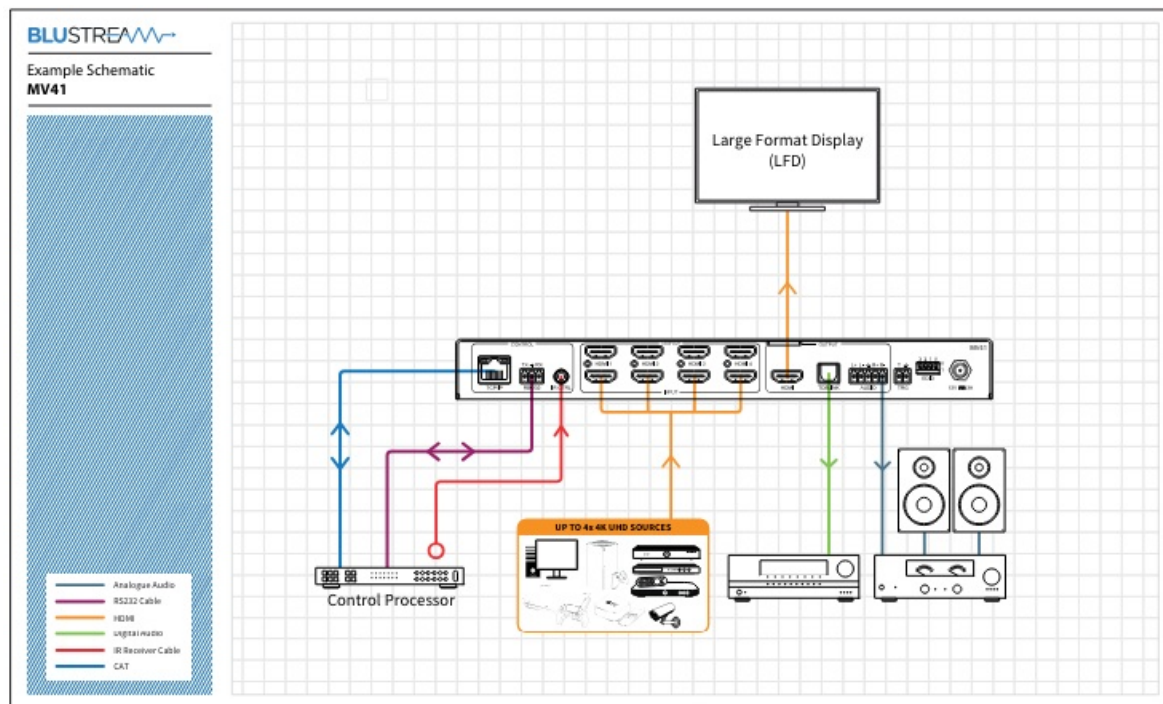- **Default IP Address is:** 192.168.0.200

Multiview

The MV41 provides advanced multi-view functionality to allow 4 x sources to be displayed simultaneously on 1 x HDMI display. The MV41's web-GUI provides an easy to use interface to allow control of the multi-view functionality. It provides the following key functionality:

- Drag and drop source devices (inputs) onto specific output windows
- Pre-defined multi-view layouts and user configurable custom layouts
- Selectable audio source from HDMI inputs
- Auto-switching enable/disable

For more information on how to configure layouts and presets, please see User Manual on the Blustream website.

Schematic

Specifications

- **Video Input Connectors**: 4 x HDMI Type A, 19-pin, female
- **Video Output Connectors:** 5 x HDMI Type A, 19-pin, female
- **Audio Output Connectors:** 1 x Optical (S/PDIF), 1 x 5-pin Phoenix connector TCP/IP Control: 1 x RJ45, female
- **RS-232 Port:** 1 x 3-pin Phoenix connector
- **12v Trigger Port:** 1 x 2-pin Phoenix connector
- **IR Input Ports:** 1 x 3.5mm stereo jack
- **Firmware Upgrade:** 1 x Micro-USB UART port
- **Dimensions (W x D x H):** 265mm x 152mm x 30mm
- **Shipping Weight:** 1.5kg
- **Operating Temperature:** 32°F to 104°F (0°C to 40°C)
- **Storage Temperature:** – 4°F to 140°F (- 20°C to 60°C)
- **Power Supply:** 12V/3A DC, screw connector

Package Contents

- 1 x MV41
- 1 x IR receiver
- 1 x IR remote control
- 1 x 5-pin phoenix connector
- 1 x 3-pin phoenix connector
- 1 x 2-pin phoenix connector
- 1 x 19" rack mounting kit
- 1 x Quick reference guide
- 1 x 12V/3A DC power supply

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION – changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

- **www.blustream.com.au**
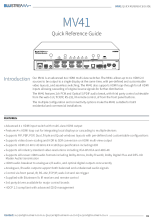- **www.blustream-us.com**
- **www.blustream.co.uk**

FAQ

Q: How do I update the firmware of the MV41?
A: You can update the firmware by connecting a micro USB cable to the Upgrade Port on the front panel and following the instructions provided in the user manual.

Q: Can I control the MV41 remotely?
A: Yes, you can control the MV41 remotely using the web-GUI or through TCP/IP and RS-232 ports on the rear panel.

Documents / Resources

BLUSTREAM MV41 4 Way Multiview HDMI Switcher [pdf] User Guide
MV41 4 Way Multiview HDMI Switcher, MV41, 4 Way Multiview HDMI Switcher, Multiview HDMI Switcher, HDMI Switcher, Switcher

References

- 🌐 **Register a .US.COM domain today!**
- **User Manual**