SAFETY INFORMATION

1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.

2. Follow all instructions printed on unit chassis for proper operation.

3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.

4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.

5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.

6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.

7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.

8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.

9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.

10. Turn power off and disconnect unit from AC current before making connections.

11. Never hold a power switch in the “ON” position.

12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.

13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically “blown free” of foreign dust and matter.

14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.

15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.

16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.

17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.

18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.

19. Service Information Equipment should be serviced by qualified service personnel when:
   A. The power supply cord or the plug has been damaged.
   B. Objects have fallen, or liquid has been spilled into the equipment.
   C. The equipment has been exposed to rain.
   D. The equipment does not appear to operate normally, or exhibits a marked change in performance.
   E. The equipment has been dropped, or the enclosure damaged.

THIS SAFETY INFORMATION IS OF A GENERAL NATURE AND MAY BE SUPERSEDED BY INSTRUCTIONS CONTAINED WITHIN THIS MANUAL.
Dear Customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Introduction

The ANI-QUAD-LITE is a high performance 4x1 Quad Multi-Viewer with seamless switcher. It supports (4) high definition input source displays on one screen and has (3) multi-view effect modes. As a switcher, it can also seamlessly switch the (4) HD inputs freely. This unit can be controlled via front panel button control, IR control and RS-232 control. This product provides a S/PDIF link to output the HDMI source audio at the same time. This product has a 3 year warranty.

Package Contents

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

• ANI-QUAD-LITE 4x1 HDMI Quad Multi-Viewer
• Remote Control
• Wide-band IR Receiver
• (4) Wide-band IR Transmitters
• RS-232 Cable
• 12V/2.5A DC power adaptor
• Users Guide

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

• Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
• To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
• Never spill liquid of any kind on or into this product.
• Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
• Do not attach the power supply cabling to building surfaces.
• Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
• Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
• To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

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Version 1.1 AUG 2016

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FEATURES

- HDMI 1.3a, HDCP 1.2 compliant
- Supports multiplexed HDMI to (4) Inputs and (1) Output
- Supports up to 1080p High Definition resolution
- Supports 4x1 Quad Multi-viewer and seamless switch
- Supports Scaler Up and Down function
- Supports multi Output resolutions
- Supports digital audio formats LPCM/AC3/DTS
- Supports front panel button, IR and RS-232 control
- IR system allows for control of the source at the display end

SPECIFICATIONS

- **Video Bandwidth:** 2.25Gbps
- **Input Ports:** (4) HDMI (Female type), (1) RS-232
- **Output Ports:** (1) HDMI (Female type), (1) RCA
- **Audio Output:** PCM2, 5.1, 7.1CH, Dolby 5.1, DTS.5.1
- **Input Resolutions:** 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/30/50/60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x720@60Hz, 1920x1080@60Hz
- **Output Resolutions:** 1080p, 1080i, 720p, 1024x768, 1360x768
- **ESD Protection:** Human Body Model:
  - ±8kV (air-gap discharge)
  - ±4kV (contact discharge)
- **Power Supply:** 12V/2.5A DC (US/EU standards, CE/FCC/UL certified)
- **Dimensions (WxDxH):** 4.6 x 9.8 x 1.25 in (118x250x32mm)
- **Weight:** 1.65 lb/750 g
- **Chassis Material:** Metal
- **Chassis Color:** Black
- **Operating Temperature:** 0°C~40°C/32°F~104°F
- **Storage Temperature:** −20°C~60°C/−4°F~140°F
- **Relative Humidity:** 20~90% RH (non-condensing)
- **Power Consumption:** 10W

As product improvements are continuous, specifications are subject to change without notice.
FRONT PANEL

1 ON/OFF: Power ON/OFF switch
2 SERVICE: For factory use only
3 IR: Remote control receiver window
4 POWER LED: This red LED illuminates when the device is connected to the power supply
5 IN1, 2, 3, 4 LED: These red LED illuminates when the Output has selected the corresponding Input
6 INPUT BUTTON: Press this button to select the Input source
7 MODE BUTTON: Press this button to select the multi-view display mode
8 RESO BUTTON: Press this button to select the HDMI Output resolution

BACK PANEL

1 INPUT: This slot is where you connect the HDMI source Output from a DVD player, PS3, Set-top Box or Note Book
2 OUTPUT: The HDMI port is where you connect the HDTV or monitor with a HDMI cable for the Input source display. The Coax is where you connect the amplifier with a coaxial cable
3 IR TX: Connects the IR Blaster cable, included in the package, for IR signal transmission. Place the IR blaster in direct line-of-sight of the equipment to be controlled
4 IR RX: Connects to the IR Receiver for IR signal reception. Ensure the remote being used is within the direct line-of-sight of the IR receiver
5 RS-232: Connects the RS-232 port of the PC or notebook with a RS-232 cable
6 DC 12V: Plug the 12V DC power supply into the unit and connect the adaptor to an AC wall outlet.
REMOTE CONTROL

1. **INPUT SELECT BUTTONS**: The quad multi-viewer will select the corresponding Input source and the front panel LED will indicate the selected Input source status.

2. **MODE SELECT BUTTONS**: The quad multi-viewer will select the corresponding mode.

3. **RESOLUTION BUTTONS**: The HDMI will Output different resolutions, 1080p, 1080i, 720p, 1024x768, 1360x768. The F1, F2 buttons expand for user defined functions. The **RESET** button will reset the quad multi-viewer to factory state.

4. **PICTURE BUTTONS**: These buttons can adjust the display picture contrast, brightness, color and sharpness.
CONNECT & OPERATE

1. Connect the signal sources such as Blu-Ray Player, Play Station 3, audio/video receiver, satellite receivers and computers equipped with HDMI Output interfaces, with a short high-speed HDMI cable to the HDMI switcher Inputs.

2. Connect the HDMI Output of the HDMI switcher to a high-definition display device such as a HD-LCD, HD-DLP or HD projector with HDMI Input interfaces. Use high-speed HDMI cables that are recommended for the distances that are required for each connection.

3. The switcher is powered by an external power supply, which is included. Connect power first to the source, then to the switcher and then to the HDTV or projector.

4. The input source can be controlled from the display. This is accomplished by using an optional IR Receiver pigtail pointing away from the display(s), which can be connected with an optional HDMI IR Adapter, and inserted between the HDMI cable connector and the display with the toggle switcher at the “IR” position. The IR Transmitter pigtail is used to connect to the switcher and pointed to the source(s). The switcher also has the capability of being controlled via the remote control.

PC GUI INTERFACE

INSTALLATION: The PC controller is green software. Just use a cable to connect the PC via the RS-232 port and copy “Quad multi-viewer.exe” to the PC to complete installation.

PREPARATION:
1. Connect the PC and multi-viewer with a RS-232 cable. (headers of both sides of the cable should be FEMALE)
2. Power-up the multi-viewer.
3. Double click “Quad multi-viewer.exe” icon to run it.

SET UP:
1. Select the PC connect “COM” port. Click to connect or disconnect the PC and multi-viewer.
2. Select the HDMI output resolution.
3. Select the input source.
4. Select the output mode, see the detail description. Adjust the HDMI output picture quality.
5. Display or hide the OSD menu.
6. FW Upgrade Part: Click to open “FIRMWARE”. Then click the “UPGRADE” button. The new firmware will auto download to the multi-viewer and restart it.
7. Press the RESET button. The quad multi-viewer will reset to the factory state.
**WIDEBAND IR (30KHZ--60KHZ) INTRODUCTION**

*Included in each kit:*

---

**IR BLASTER (TX):** To control the source: Plug the IR Blaster into IR TX port of the transmitter unit. Place the blaster in front of the IR eye of the source.

**IR RECEIVER (RX):** To control the source: Plug the IR Receiver into IR RX port of the receiver unit. Place the receiver at or near the display.

---

**DETAIL DESCRIPTION OF DISPLAY MODES**

The quad multi-viewer has (3) display modes.

---

**MODE 1:** The quad multi-viewer divides the (4) HD Inputs into the same size displays on (1) screen. Switch the Inputs using the buttons on the front panel or IR remote, and the HDMI Output audio will correspond to the selected Input source.

**MODE 2:** The quad multi-viewer divides the (4) HD Inputs into (1) large and (3) smaller picture displays on (1) screen. Switch the Inputs using the buttons on front panel or IR remote, and the bigger picture will correspond to the selected Input source. The HDMI Output audio follows the bigger picture source.

**MODE 3:** The quad multi-viewer will separate and display the (4) HD Inputs individually and become a seamless switcher.
RS-232 SERIAL INTERFACE FOR CONNECTION TO A PC OR 3RD PARTY CONTROLLER

1. Transmission rate: 115200bps
2. Data format: 8 data bits, No parity, 1 start bit and 1 stop bit
3. Flowing control: None
   Also know as 115200,8,n,1

RS-232 CONFIGURATION

RS-232 cable is a straight thru cable and not null-modem

<table>
<thead>
<tr>
<th>Pin</th>
<th>Pin</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>DCD</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>RX</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>TX</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>DTR</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>GND</td>
</tr>
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<td>RTS</td>
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<tr>
<td>8</td>
<td>8</td>
<td>CTS</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>RI</td>
</tr>
</tbody>
</table>

Data String Format

The data string must conclude with a period “.” (without the quotes).
All text is full ASCII Code and is NOT case sensitive.

COMMANDS

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>AUCTION</th>
<th>ANI-QUAD-MINI RETURNS</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution1.</td>
<td>Changes resolution to 1080p</td>
<td>Resolution: 1080p/60</td>
<td></td>
</tr>
<tr>
<td>Resolution2.</td>
<td>Changes resolution to 720p</td>
<td>Resolution: 720p/60</td>
<td></td>
</tr>
<tr>
<td>Resolution3.</td>
<td>Changes resolution to 1080i</td>
<td>Resolution: 1080i/60</td>
<td></td>
</tr>
<tr>
<td>Resolution4.</td>
<td>Changes resolution to 1360x768</td>
<td>Resolution: 1360x768/60</td>
<td></td>
</tr>
<tr>
<td>Resolution5.</td>
<td>Changes resolution to 1024x768</td>
<td>Resolution: 1024x768/60</td>
<td></td>
</tr>
<tr>
<td>IN1.</td>
<td>Selects Input 1</td>
<td>Input 1 select</td>
<td></td>
</tr>
<tr>
<td>IN2.</td>
<td>Selects Input 2</td>
<td>Input 2 select</td>
<td></td>
</tr>
<tr>
<td>IN3.</td>
<td>Selects Input 3</td>
<td>Input 3 select</td>
<td></td>
</tr>
<tr>
<td>IN4.</td>
<td>Selects Input 4</td>
<td>Input 4 select</td>
<td></td>
</tr>
<tr>
<td>Mode1.</td>
<td>Selects QUAD mode</td>
<td>Mode: QUAD</td>
<td></td>
</tr>
<tr>
<td>Mode2.</td>
<td>Selects PIP mode</td>
<td>Mode: PIP</td>
<td></td>
</tr>
<tr>
<td>Mode3.</td>
<td>Select FULL mode</td>
<td>Mode: FULL</td>
<td></td>
</tr>
<tr>
<td>OSDON.</td>
<td>ENABLE OSD</td>
<td>OSD ON</td>
<td></td>
</tr>
<tr>
<td>OSDOFF.</td>
<td>DISABLE OSD</td>
<td>OSD OFF</td>
<td></td>
</tr>
<tr>
<td>BorderON.</td>
<td>ENABLE Color Border</td>
<td>Border ON</td>
<td></td>
</tr>
<tr>
<td>BorderOFF.</td>
<td>DISABLE Color Border</td>
<td>Border OFF</td>
<td></td>
</tr>
<tr>
<td>Contrastxx.</td>
<td>Setting Contrast 50</td>
<td>Contrast: 50</td>
<td>X= - 00 to 99</td>
</tr>
<tr>
<td>Brightnessxx.</td>
<td>Setting Brightness 50</td>
<td>Brightness: 50</td>
<td>X= - 00 to 99</td>
</tr>
<tr>
<td>Colorxx.</td>
<td>Setting Color 50</td>
<td>Color: 50</td>
<td>X= - 00 to 99</td>
</tr>
<tr>
<td>Sharpnessxx.</td>
<td>Setting Sharpness 0</td>
<td>Sharpness: 0</td>
<td>X= - 0 to 8</td>
</tr>
<tr>
<td>Version.</td>
<td>Checks software Version</td>
<td>V 1.7</td>
<td></td>
</tr>
<tr>
<td>Restore.</td>
<td>Factory Reset</td>
<td>Factory init</td>
<td></td>
</tr>
</tbody>
</table>
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