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.
## INTRODUCTION

The ANI-QUAD-MINI HDMI Quad Screen Multiviewer allows you to simultaneously display real-time HDMI/DVI video from (4) different sources on a single monitor. It is capable of displaying the video sources in Quad, PIP or Full Screen modes. The audio/video output can be extended up to 250* feet away via a single CAT6/6a/7 cable. 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-MINI HDMI Quad Multi-Viewer
- CAT5e/6 Receiver
- (2) Surface Mount brackets
- Remote Control
- (2) Wide-band IR Receivers
- (5) Wide-band IR Transmitters
- RS-232 Cable
- Power Supply:
  - Base Unit: 12VDC@2.5A
  - Receiver: 5VDC@1A  Input: 110VAC (US/EU standards, CE/FCC/UL certified)
- Users Guide
- Optional Rack Mount Bracket (ANI-QUAD-MINI-RM)

## 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.

## DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use.

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Version 2.5 APR 2017

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**DOWNLOADS**

- GUI Software: Download available from our website
  www.a-neuvideo.com/shop/ANI-QUAD-MINI.html
FEATURES

• 4x1 Quad Multi-viewer and seamless switch with multiplexed HDMI (4) Inputs and (1) Output
• Supports up to 1080p High Definition resolution and is HDMI 1.3a and HDCP 1.2 compliant
• Supports scaler Up/Down functions and digital audio formats LPCM/AC3/DTS
• Control provided with front panel buttons, IR remote, RS-232 and various third party controllers
• IR system allows for control of the source at the display end
• Allows HDMI Audio/Video and IR signals to be transmitted over a single CAT5e/6 cable
• Quad, Picture in Picture and Full Screen display modes
• Quad Mode:
  • In quad mode, the screen is split into (4) fields of equal size each displaying the entire contents of (4) different video sources
  • Fluid, real-time video performance with 60 frames per second (fps) in all (4) quadrants
• Full Screen Mode:
  • In full screen mode, (1) of the (4) video sources is displayed in full screen size at maximum resolution
• Picture in Picture (PIP) Mode:
  • In PIP mode, the full screen display of (1) of the (4) video sources is accompanied by (3) small images (thumbnails) of the (3) other video sources on the right hand margin of the screen allowing simultaneous monitoring. Independent video in to video out resolution
• Supports HDTV resolutions up to 1080p and computer resolutions up to 1920x1200
• HDMI features supported:
  • Inputs: 24, 30 and 36bit / xvYCC, sRGB and YCbCr
  • Outputs: 24 and 30bit sRGB
  • (4) channel non-mixing or (1) channel mixing stereo with 16, 20 or 24bit uncompressed PCM audio
  • Bandwidth up to 165MHz
    • Inputs: 2.25Gbps
    • Output: 2.0625Gbps
• Switches audio independently from the video when connected to the HDMI sources in Quad mode
• Controls the multiviewer through front panel buttons, IR remote or Graphical User Interface (GUI) via RS-232
  • Bi-directional IR control from the multiviewer and remote unit locations
• Cascade multiviewers to display video from any number of video sources on (1) screen
  • Each unit in the cascade must be configured and controlled individually
  • Cascaded outputs can be extended using the remote unit as long as the combined total CAT6/6a/7 cable length is between all levels of the cascade, and does not exceed 250 feet
• Adjust output video brightness, contrast, color and sharpness
• Supports simultaneous local and remote HDMI output
  • Features coax SPDIF audio outputs at the multiviewer and receiver
• Built-in default EDID table
  • Supported output resolutions can be selected
• ARC (Audio Return Channel) support at the receiver unit via a coax SPDIF output for speakers
  • Turn ARC on to play audio from a HDTV with ARC support, to the connected speakers
  • Turn ARC off to play audio from the multiviewer source, to the connected speakers

**The ANI-QUAD-MINI is NOT compatible with EZ-45 connectors.**
SPECIFICATIONS

• **Video Bandwidth:** 2.25Gbps

• **Input Ports:**
  - (4) HDMI (Female type)
  - (1) 3.5mm port for the IR receiver
  - (1) RS-232

• **Output Ports:**
  - (1) HDMI (Female type)
  - (1) RCA
  - (1) RJ45 connector for CATx cable to the remote unit
  - (1) UTP
  - (1) Coax connector for local SPDIF audio
  - (4) 3.5mm ports for the IR emitters

• **Audio Output:** PCM2, 5.1, 7.1CH, Dolby 5.1, DTS5.1

• **Input Resolution:** 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 Resolution:** 1080p, 1080i, 720p, 1024x768, 1360x768

• **Control:**
  - Infrared Remote Control:
    - IR Control of the Multiviewer: Control with the included IR remote using the built-in IR receiver on the multiviewer or via an IR receiver connected to the remote unit
    - IR Control of Connected Sources: Control with the source IR remote using the built-in IR receiver on the multiviewer or via an IR transmitter connected to the multiviewer and an IR receiver connected to the remote unit
    - IR Control of Connected Display: Control the remote display with the display IR remote via the IR receiver on the multiviewer and an IR transmitter connected to the remote unit
  - Front Panel Interface
  - RS-232 Control

• **ESD Protection:** Human Body Model: ±8kV (air-gap discharge) / ±4kV (contact discharge)

• **Dimensions (WxDxH):** 10.5 x 4.5 x 1.25 in

• **Weight:** 2.0 lb (Unit only) / 4.2 lb (Net)

• **Chassis Material:** Metal

• **Silkscreen 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

• **Power Supplies:**
  - **12V 2.5A DC Power Adaptor**
    - For the Main Unit
  - **5V 1A DC Power Adaptor**
    - For the Receiver Unit

<table>
<thead>
<tr>
<th>CABLE</th>
<th>DISTANCE</th>
<th>MAX RESOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT6 Standard UTP</td>
<td>90 ft</td>
<td>1080p/60Hz</td>
</tr>
<tr>
<td>CAT6 Solid UTP</td>
<td>125 ft</td>
<td>1080p/60Hz</td>
</tr>
<tr>
<td>CAT6 Solid UTP*</td>
<td>250 ft</td>
<td>1080i/60Hz / 720p/60Hz</td>
</tr>
<tr>
<td>CAT6a/7 Solid UTP/STP*</td>
<td>250 ft</td>
<td>1080p/60Hz</td>
</tr>
</tbody>
</table>

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 LEDs illuminate 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 cycle thru the different view display modes.
8. **RESO BUTTON**: Press this button to cycle thru the HDMI output resolutions.

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 is where you connect the HDTV or monitor with HDMI cable for input source display. The UTP port connects to the CAT Receiver with a CAT5e/6 cable for extended signal. The Coax is where you connect to the amplifier with a coaxial cable.
3. **IR RX**: Connect to the IR Receiver for IR signal reception. Ensure the remote being used is within the direct line-of-sight of the IR receiver.
4. **IR TX**: Connect 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.
5. **RS-232**: Connect the RS-232 port to 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 AC wall outlet.
**OPERATION & FUNCTIONS**

**CAT RECEIVER**

1. **DC 5V**: Connect the 5V DC power supply into the unit and connect the adaptor to an AC outlet.
2. **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.
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. **CAT5e/6**: Connects the CAT input of the receiver with the CAT output of the transmitter with CAT5e/6 cable.
5. **HDMI OUT**: This slot is to connect the HDMI input port of your display, such as an HDTV.
6. **LOCK LED**: This LED will illuminate when the HDMI signal from the transmitter is stable.
7. **POWER LED**: This LED will illuminate when the device is connected with the power supply.
8. **COAXIAL OUT**: This slot is where you connect to the audio amplifier with a coaxial cable.
9. **ARC**: Switches the ARC switcher function to open or closed.

**ARC Function**: If you need to use ARC, your HDTV must support this function. When you open the ARC function, the coaxial of the receiver will output the HDTVs current display, content and audio signal. Otherwise the output will use the HDMI sources (DVD, set-top-box, etc.) audio signal.

**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 and 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 connected to the switcher and pointed to the source(s). The switcher also has the capability of being controlled via a remote control.
WIDEBAND IR (30KHZ--60KHZ) INTRODUCTION

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.

MODE1: 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.

MODE2: 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.

MODE3: The quad multi-viewer will separate and display the (4) HD inputs individually and become a seamless switcher.
REMOTE CONTROL

1 INPUT SELECT BUTTON: The quad multi-viewer will select the corresponding input source. The front panel LED will indicate the selected input source status.

2 MODE SELECT BUTTON: The quad multi-viewer will select the corresponding mode, see the detail description.

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

4 PICTURE BUTTON: These buttons can adjust the display picture contrast, brightness, color and sharpness.

HEX CODES: CUSTOM CODE: 08F7

<table>
<thead>
<tr>
<th>INPUT</th>
<th>MODE</th>
<th>RESOLUTION</th>
<th>CONTRAST</th>
<th>BRIGHTNESS</th>
<th>COLOR</th>
<th>SHARPNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT1: 08F7 4D</td>
<td>1080P: 08F7 55</td>
<td>CONTRAST RIGHT: 08F7 44</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INPUT2: 08F7 41</td>
<td>1080I: 08F7 57</td>
<td>CONTRAST LEFT: 08F7 4F</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INPUT3: 08F7 49</td>
<td>1360x768: 08F7 4E</td>
<td>BRIGHTNESS RIGHT: 08F7 0E</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INPUT4: 08F7 0B</td>
<td>720P: 08F7 17</td>
<td>BRIGHTNESS LEFT: 08F7 50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LEFT: 08F7 54</td>
<td>1024x768: 08F7 4C</td>
<td>COLOR RIGHT: 08F7 12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIGHT: 08F7 47</td>
<td>F1: 08F7 0D</td>
<td>COLOR LEFT: 08F7 13</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODE1: 08F7 08</td>
<td>F2: 08F7 56</td>
<td>SHARPNESS RIGHT: 08F7 53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODE2: 08F7 48</td>
<td>F3: 08F7 16</td>
<td>SHARPNESS LEFT: 08F7 15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODE3: 08F7 4B</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

PC GUI INTERFACE

INSTALLATION: Download the GUI software from our site www.a-neuvideo.com/shop/ANI-QUAD-MINI.html

Use a cable to connect the PC via the RS-232 port and copy “Quad multi-viewer.exe” to your PC to complete installation.

PREPARATION:
1. Connect the PC and multi-viewer with a RS-232 cable (headers of both sides of 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 PCs 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.
Connection Diagram

DIAGRAM

OPTIONAL RACK MOUNT BRACKET

MODEL NO.: ANI-QUAD-MINI-RM
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>Definition</th>
<th>Pin</th>
<th>Pin</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCD</td>
<td>1</td>
<td>1</td>
<td>DCD</td>
</tr>
<tr>
<td>RX</td>
<td>2</td>
<td>2</td>
<td>RX</td>
</tr>
<tr>
<td>TX</td>
<td>3</td>
<td>3</td>
<td>TX</td>
</tr>
<tr>
<td>GND</td>
<td>4</td>
<td>4</td>
<td>DTR</td>
</tr>
<tr>
<td>GND</td>
<td>5</td>
<td>5</td>
<td>GND</td>
</tr>
<tr>
<td>DSR</td>
<td>6</td>
<td>6</td>
<td>DSR</td>
</tr>
<tr>
<td>RTS</td>
<td>7</td>
<td>7</td>
<td>RTS</td>
</tr>
<tr>
<td>CTS</td>
<td>8</td>
<td>8</td>
<td>CTS</td>
</tr>
<tr>
<td>RI</td>
<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>Selects 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>Sharpnessx.</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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