ANI-QUAD >

4x4 HDMI VIDEO WALL PROCESSER & MATRIX SWITCH

INSTRUCTION MANUAL





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V.1.4



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 qualifier 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.

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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.

The ANI-QUAD is a high performance, high speed HDMI video processing system that can be easily configured and controlled for three different output modes (Matrix, Dual and Video Wall) for various applications. Matrix mode routes the source signals to output displays as a regular matrix does, Dual mode allows 2 sets of 2 selected sources to be shown on designate output displays (2 displays as a set) and Video Wall mode extends a selected source to all 4 output displays as one time. Supports full range of video resolutions up to WUXGA@60 (RB) or 1080p and different audio formats up to 7.1CH LPCM at 192 kHz sampling rate based on input source capability. The ANI-QUAD control can be done through IR using the included remote control, Telnet (Ethernet), RS-232 or from the front panel buttons, the included GUI software or built-in browser.

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
- Remote Control
- Software CD Driver
- 12V/3A DC Power Adaptor
- Users Manual

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.

We assume no responsibility for any inaccuracies that may be contained in this document. We make no commitment to update or to keep current the information contained in this document.

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FEATURES & SPECIFICATIONS

FEATURES

- HDMI, HDCP1.1 and DVI compliant
- Deep color support 8/10/12 bit source
- Seamless switching. Most sources switch with zero delay, similar to a cuts only production switcher.
- Supports three different modes: Matrix mode/ Dual mode/ TV Wall mode
 - Matrix mode: Can route any 4 Input sources to any 4 Output displays in any combination (4x4).
 - **Dual mode:** Can display POP (Picture Of Picture) image combining any 2 sources to be presented side-by-side on the HDMI output ports (Dual A and Dual B). You can select any of the 4 inputs and change them live.
 - Note: Under output timing 1080i@50/60 input 4 will be disabled.
 - Video Wall mode: Can output any source to 4 displays (2 by 2 Video wall) as a full image with adjustable Bezel Correction for each display. Any Source input can be selected and change live.
 - Note: Under output timing 1080i@50/60 input 4 will be disabled.
- • Supports OSD setup, front panel push buttons, wireless remote control, RS-232, IP (Telnet), provided GUI software (Ethernet or RS-232) or built-in web server.
- Input resolutions support VGA up to WUXGA and 480i up to 1080p
- Output resolutions support 480p up to 1080p
- Supports different input resolution and output resolution.
- Audio support for LPCM 2CH, 6CH, 8CH/AC3/DTS/Dolby Digital Plus/ Dolby TrueHD & DTS-HD

SPECIFICATIONS

Video Bandwidth: 225MHz/6.75Gbps

Input Port:

- 4x HDMI (Female type)
- 1xUSB (Service only)
- Output Port: 4 x HDMI (Female type)

Power Supply: 12V/3A DC (US/EU standards, CE/FCC/UL certified)

ESD Protection:

- Human body model:
 - ±8 kV (air-gap discharge)
- ±4 kV (contact discharge)

Dimensions (WxDXH): 17.1 x 9.7 x 1.75in (436 x 247 x 44mm) Weight: 4.85 lbs / 2.2Kg Chassis Material: Aluminum 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: 15w

Note: Specifications are subject to change without notice.

SYSTEM REQUIREMENTS

Input source equipment such as DVD/Blu-ray players or any video signal and PC/Notebook devices and output to HDTV displays/ projectors/etc.

APPLICATIONS

- Broadcasting
- Surveillance
- Public advertisement
- Digital Presentation
- · Conference call or meeting room presentation

PANEL DESCRIPTIONS

FRONT PANEL



IR Window: IR receiver for signal from the device's remote control or external IR controller
 Power

- **ON/OFF:** Press this button to power On the device or set it to standby mode.
- Factory reset to default: Press and hold Power button then connect power to reset the system to Factory default settings.
 MENU:
 - Press this button to bring up the OSD (On Screen Display) menu on screen.
 - Press "MENU" with "-"button to switch output timing to 720p@60Hz instantly.
 - Press "MENU" with "+" button to switch output timing to XGA (1024x768@60Hz) instantly.
- 4 -/+ Buttons: Press these buttons to scroll down/up on the OSD selections then press "MENU" button to confirm.

5 CHANNEL INPUT 1~4 and CHANNEL OUTPUT A~D:

- Matrix mode:
 - Press "Matrix/Dual/Wall" button repeatedly until the LED illuminates steady. You are now in Matrix mode.
 - Press an output from A~D and then press corresponding input from 1~4. For example: press output A then press input 2, Will result in Output A will display input 2's image. Each output setting must be made individually.
- Dual mode: To combine 2 sources to be presented on each HDMI output ports (Dual A and Dual B).
 - Press "Matrix/Dual/Wall" button repeatedly until the LED extinguishes. You are now in Dual mode.
 - Press output A/B and then press corresponding input 1/2. For example: press output A then press input 1, output A will display input 1's image on the left side, then press output B and then press input 2, output A will display input 2's image on the right side. Both output A and B will have identical images.
 - Dual A group are outputs A and B, Dual B group are outputs C and D. Each group will output the same image simultaneously.
 - Press button A or B for 3 seconds, to switch Dual A channel's audio between output A or B.
 - Press button C or D for 3 seconds, to switch Dual B channel's audio between output C or D.
- Video Wall mode:
 - Press "Matrix/Dual/Wall" button repeatedly until the LED blinks constantly. You are now in Video Wall mode
 - Press input 1~4 to select a source to 4 displays (2 x 2 Video wall). The audio will be on output A only.

6 MATRIX/DUAL/WALL: Press to switch between Matrix mode, Dual mode and Video Wall mode. The button LED will indicate which mode you are in. Matrix mode: LED illuminate constantly.

- Dual mode: LED will extinguish.
- Video Wall mode: LED will blink constantly.

1 LOCK: Press once to lock the keypad and remote control, press and hold for 3 seconds to release the lock function.

- 8 SAVE: To save an Input and Output configuration to recall later:
 - Press "Matrix/Dual/Wall" button to select mode status.
 - Press each output channel A~D and the corresponding input channel 1~4.
 - Press "SAVE", the input 1~4 LEDs will all illuminate at the same time. Press input 1,2,3 or 4 to save to the system memory location.
 - For example: Select Matrix mode, press output A then press input 4, then press "SAVE". This will save the corresponding setup for later recall using the front panel or the remote control FAV.1 thru FAV.4 buttons.

9 RECALL: Press "RECALL" and the input channel 1~4 LED will illuminate at the same time. Select input channel 1,2,3 or 4 to recall the customized screen setting. Or using the remote control FAV.1~FAV.4 buttons.

PANEL DESCRIPTIONS

REAR PANEL

	HDM	IN			HDMI	OUT		- C		
4	3	2	1	D	C	в	A	CONTROL		12/21/201
	0	0	0		0	0	0	US	RS232	DC 12V
		_						EUUINUT ONL		
	0	0	0							
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						2		2 4		6

- 1 HDMI IN 1~4: Connect HDMI source signal such as STP, DVD player, Blue-ray player, or PC.
- 2 HDMI OUT 1~4: Connect HDMI destination device such as a Monitor, Recorder, or distribution system.
- 3 Ethernet: Connect to an active Ethernet network for telnet control (refer to section "RS-232 / telnet Commands")
- **4 USB SERVICE ONLY:** This slot is reserved for factory use and firmware updates.
- **SRS-232:** Used for remote control of the ANI-QUAD using RS-232 commands via a PC or other external controller.
- **(6)** DC 12V: Plug the 12V DC power supply into the unit and connect the adaptor to an AC outlet.

OUTPUT MODES

OUTPUT MODES



VIDEO WALL MODE



MATRIX MODE



DUAL MODE

REMOTE CONTROL

REMOTE CONTROL

1 Power: Press this button to switch On the device or press it again to set it to standby mode.

2 Info: Press this button to show the device's firmware version.

Out A~D and In 1~4: Press out-put A~D and then press input1~4 to select display input.

For example: press Out A then press In 1, output A will display input 1's image.

 MATRIX/DUAL/WALL: Press to switch between Matrix mode, Dual mode and Video Wall mode.

5 Lock: Press once to lock the keypad and remote control. Press and hold for 3 seconds to release the lock function.

6 Mute: Press this button to mute the audio from HDMI output port.

8 Exit: Press this button to exit the OSD menu or the OSD settings.

9 Menu: Press this button to enter into the OSD menu.

1024x768/720p/1080p: Press these hot keys to switch between each resolution.

(1) AL/AR/BL/BR: When in Dual mode, press these hot keys to switch the audio channel in Left or Right side for Dual A and Dual B group.

(2) SAVE: To save the customized input and output settings.

- Press "Matrix/Dual/Wall" button to select mode status.
- Press each output channel A~D and then press corresponding input channel 1~4.
- Press "SAVE", then input 1~4's LED will illuminate at the same time, then press remote control FAV.1~FAV.4 to save to the system memory.

(B) FAV.1~FAV.4: Press favorite hot keys 1~4 to bring up the customized settings you previously stored.

REMOTE CONTROL DIP SWITCH

Open Remote control back cover to adjust dip-switch ON/OFF to match IR address setting in the OSD menu. Factory default is "0".

RS-232 PROTOCOLS

ANI-QUAD				
PIN	Assignment			
1	NC			
2	TxD			
3	RxD			
4	NC			
5	GND			
6	NC			
7	NC			
8	NC			
9	NC			

Remote Controller(PC)				
PIN	Definition			
1	NC			
2	RxD			
3	TxD			
4	NC			
5	GND			
6	NC			
7	NC			
8	NC			
9	NC			



Baud Rate: 115200bps Data Bit:						
8 bits						
Parity: None						
Flow Control: None						
Stop Bit: 1						

0

ON

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1 2

1

ON

t

2

ON

↑ ↓

3

ON

1 1

RS-232 & TELNET COMMANDS

RS-232 & TELNET COMMANDS

All commands require a carriage return (0x0D). Commands are case-sensitive.

AUA001Dual A Audio channel in Eqht sideAUA001AUA002Dual A Audio channel in Right sideAUA002AUB090Check Dual A Audio channel istatusAUA7?AUB001Dual B Audio channel istatusAUB001AUB002Dual B Audio channel in Right sideAUB002AUB099Check Dual B Audio channel statusAUB002AUD000Audio output OffAUD001AUD001Audio output OffAUD001AUE000Audio output OffAUE000AUE000Audio coloff statusAUE001AUE001Audio EDID is LPCM 2CHAUE000AUE002Audio EDID is LPCM 8CHAUE001AUE003Audio EDID is LPCM 8CHAUE003AUE004Audio EDID is BITSTREAMAUE003AUE005Bezel Correction OFFBEZ001BEZ001Bezel Correction OFFBEZ001BEZ001Bezel Correction OFFBEZ001BEZ011Bezel Correction OFFBEZ01BEH7??Horizontal (H) Bezel correction??2000 - MaximumBEH???BEH999Check the current Horizontal(H) Bezel correction setting valueBEH???BEH999Check the current Horizontal(H) Bezel correction setting valueBEH???BEV991Check the current Horizontal(H) Bezel correction setting valueBEH???BEV992Check the current Horizontal(H) Bezel correction setting valueBEY???BEV993Check the current Horizontal(H) Bezel correction setting valueBEY???BEV994Check the current Horizontal(H) Bezel correction setting valueBEY??	Command	Action	ANI-QUAD Returns					
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AUE002Audio EDID is LPCM 8CHAUE002AUE003Audio EDID is BITSTREAMAUE003AUE04Audio EDID is BITSTREAMAUE003AUE999Check audio EDID settingAUE??BEZ000Bezel Correction OFFBEZ000BEZ011Bezel Correction ONBEZ001BEZ999Check bezel correction on/off statusBEZ??BEH998Check the current Horizontal(H) Bezel correction Maximum valueBEH???BEH998Check the current Horizontal(H) Bezel correction Maximum valueBEH???BEV??Vertical (V) Bezel correction ???=000 ~ Maximum valueBEV???BEV999Check the current Horizontal(H) Bezel correction setting valueBEV???BEV999Check the current Horizontal(H) Bezel correction Maximum valueBEV???BEV999Check the current Vertical(V) Bezel correction Maximum valueBEV???BR1???Setting BrightnessNo response???=000-100 for matrix mode?????????=000-100 for matrix mode??????=000-100 for matrix modeBR1?????=999 for matrix modeBR1?????=999 for matrix mode??????=999 for matrix modeSeting Correst???=991-994-OUT1-4 for dual/Video Wall modeCAL???CON???Setting ContrastNo response <td>AUE001</td> <td>Audio EDID is LPCM 6CH</td> <td>AUE001</td>	AUE001	Audio EDID is LPCM 6CH	AUE001					
AUE003Audio EDID is BITSTREAMAUE003AUE004Audio EDID is HDAUE004AUE999Check audio EDID settingAUE7??BEZ000Bezel Correction OFFBEZ000BEZ099Check bazel correction on/off statusBEZ07?BEH???Horizontal (H) Bezel correction ???=000 - MaximumBEH???BEH998Check the current Horizontal(H) Bezel correction Maximum valueBEH???BEH999Check the current Horizontal(H) Bezel correction Maximum valueBEH???BEV???Vertical (V) Bezel correction Maximum valueBEV???BEV999Check the current Horizontal(H) Bezel correction Maximum valueBEV???BEV999Check the current Vertical(V) Bezel correction Maximum valueBEV???BEV999Check the current Vertical(V) Bezel correction Maximum valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction Maximum valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction Setting valueBEV???BRI???Setting BrightnessNo response???=000-100 for matrix mode??????=000-100 for matrix mode??????=000-100 for matrix modeSetting Setting ContrastCol.???Setting ContrastCol.???CAL???RECALL FAV. ???=001-004=FAV.1-4CAL???CON???Setting ContrastNo responseCON???Setting Contr	AUE002	Audio EDID is LPCM 8CH	AUE002					
AUE004Audio EDID is HDAUE004AUE999Check audio EDID settingAUE???BEZ000Bezel Correction OFFBEZ000BEZ001Bezel Correction ONBEZ001BEZ099Check bezel correction on/off statusBEZ???BEH??Horizontal (H) Bezel correction???=000 ~ Maximum valueBEH???BEH998Check the current Horizontal(H) Bezel correction Maximum valueBEH???BEH999Check the current Horizontal(H) Bezel correction setting valueBEH???BEV??Vertical (V) Bezel correction???=000 ~ Maximum valueBEY???BEV999Check the current Vertical(V) Bezel correction Maximum valueBEV???BEV998Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BRI??Setting BrightnessNo response???=000-100 for matrix mode??????=000-100 for matrix mode??????=000-100 for matrix modeSetting Brightness value99?=991-994=OUT1-4 for dual/Video Wall modeBR!??99?=991-994=OUT1-4 for dual/Video Wall modeCAL???CAL???RECALL FAV. ???=001-004=FAV.1-4CAL???CON???Setting ContrastNo responseCON???Setting ContrastNo responseCON?99RS-232 only, check current Ehrentet IP Addressaaa.bbb.cc.dddEIP999RS-232 only, check current Ehrentet IP Addressaaa.bbb.cc.ddd </td <td>AUE003</td> <td>Audio EDID is BITSTREAM</td> <td>AUE003</td>	AUE003	Audio EDID is BITSTREAM	AUE003					
AUE999Check audio EDID settingAUE???BEZ000Bezel Correction OFFBEZ000BEZ011Bezel Correction ONBEZ001BEZ021Bezel Correction ONBEZ001BEZ999Check bezel correction on/off statusBEZ???BEH???Horizontal (H) Bezel correction???=000 - Maximum valueBEH???BEH998Check the current Horizontal(H) Bezel correction Maximum valueBEH???BEH999Check the current Horizontal(H) Bezel correction setting valueBEH???BEV??Vertical (V) Bezel correction Maximum valueBEV???BEV998Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BRI??Setting BrightnessNo response???=000-100 for matrix mode	AUE004	Audio EDID is HD	AUE004					
BEZ000Bezel Correction OFFBEZ000BEZ001Bezel Correction ONBEZ001BEZ999Check bezel correction on/off statusBEZ???BEH???Horizontal (H) Bezel correction??=000 - MaximumBEH???BEH998Check the current Horizontal(H) Bezel correction Maximum valueBEH???BEH999Check the current Horizontal(H) Bezel correction setting valueBEH???BEV???Vertical (V) Bezel correction ??=000 - Maximum valueBEH???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction Maximum valueBEV???BRI??Setting BrightnessNo response???=000-100 for matrix mode???=000-100 for matrix mode???=000-100 for matrix modeSE???99?=991-994=0UT1-4 for dual/Video Wall modeBR!??99?=991-994=0UT1-4 for dual/Video Wall modeSE???CAL???RECALL FAV. ???=001-004=FAV.1-4CAL???CON???Setting ContrastNo responseCON999Command setting same as Brightness(BRI)CON???EGW999RS-232 only, check current Ethernet IP Addressaaa.bbb.ccc.dddEIP99RS-232 only, check current Ethernet IP Addressaaa.bbb.ccc.dddEIP99RS-232 only, check current Ethernet IP Add	AUE999	Check audio EDID setting	AUE???					
BEZ001Bezel Correction ONBEZ001BEZ999Check bezel correction on/off statusBEZ???BEH???Horizontal (H) Bezel correction???=000 ~ Maximum valueBEH???BEH998Check the current Horizontal(H) Bezel correction Maximum valueBEH???BEH999Check the current Horizontal(H) Bezel correction setting valueBEH???BEV???Vertical (V) Bezel correction???=000 ~ Maximum valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BEV998Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BEV???Setting BrightnessBEV???BRI???Setting BrightnessNo response???=000-100 for matrix mode???=000-100 for matrix mode???=000-100 for matrix modeBR!??99?=991-094=OUT1~4 for dual/Video Wall modeBR!??CAL???RECALL FAV. ???=001-004=FAV.1~4CAL???CON???Setting ContrastNo responseCON???Setting ContrastNo responseCON999RS-232 only, check current Ethernet IP Addressaaa.bbb.cc.dddEIP999RS-232 only, check current Ethernet IP Addressaaa.bbb.cc.dddEIP999RS-232 only, check current Ethernet IP Addressaaa.bbb.cc.dddHUE???Setting HUENo response	BEZ000	Bezel Correction OFF	BEZ000					
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BEH998Check the current Horizontal(H) Bezel correction Maximum valueBEH???BEH999Check the current Horizontal(H) Bezel correction setting valueBEH???BEV???Vertical (V) Bezel correction???=000 ~ MaximumBEV???BEV998Check the current Vertical(V) Bezel correction Maximum valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BR!???Setting BrightnessNo response???=000~100 for matrix mode???=000~100 for matrix mode???=000~100 for matrix modeFor example: OUT B set the Brightness value to 57 =(57)+200*(2-1) = 257BRI99?Check current Brightness valueSEI???9?=999 for matrix mode9?=999 for matrix mode9?=999 for matrix modeSetting Contrast00N???RECALL FAV. ???=001~004=FAV.1~4CAL???CON???Setting ContrastNo responseCON???Setting ContrastNo responseCON???Setting ContrastcON???EGW999RS-232 only, check current Ethernet Gateway Addressaaa.bbb.ccc.dddEIP999RS-232 only, check current Ethernet IP Addressaaa.bbb.ccc.dddEMK999RS-232 only, check current Ethernet Subnet Mask Addressaaa.bbb.ccc.dddHUE???Setting HUENo response	BEH???	Horizontal (H) Bezel correction???=000 ~ Maximum	BEH???					
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BEV998Check the current Vertical(V) Bezel correction Maximum valueBEV???BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BRI???Setting BrightnessNo response???=000~100 for matrix mode???=000~100)+200*(OUT No1) for dual/Video Wall mode???=(000~100)+200*(OUT No1) for dual/Video Wall modeFor example: OUT B set the Brightness value to 57 =(57)+200*(2-1) = 257BRI99?Check current Brightness valueBRI???99?=991 or matrix mode99?=991 or matrix mode99?=991 or matrix modeSetting ContrastCAL???RECALL FAV. ???=001~004=FAV.1~4CAL???CON???Setting ContrastNo responseCON999Command setting same as Brightness(BRI)CON???EGW999RS-232 only, check current Ethernet Gateway Addressaaa.bbb.ccc.dddEIP999RS-232 only, check current Ethernet IP Addressaaa.bbb.ccc.dddEMK999RS-232 only, check current Ethernet Subnet Mask Addressaaa.bbb.ccc.dddHUE???Setting HUENo response	BEV???	Vertical (V) Bezel correction???=000 ~ Maximum	BEV???					
BEV999Check the current Vertical(V) Bezel correction setting valueBEV???BRI???Setting BrightnessNo response???=000~100 for matrix mode???=(000~100)+200*(OUT No1) for dual/Video Wall mode???=(000~100)+200*(OUT No1) for dual/Video Wall modeFor example: OUT B set the Brightness value to 57 =(57)+200*(2-1) = 257BRI99?Check current Brightness valueBRI???99?=999 for matrix mode99?=999 for matrix mode99?=991-994=OUT1~4 for dual/Video Wall modeCAL???CAL???RECALL FAV. ???=001~004=FAV.1~4CAL???CON???Setting ContrastNo responseCON999Command setting same as Brightness(BRI)CON???EGW999RS-232 only, check current Ethernet Gateway Addressaaa.bbb.ccc.dddEIP999RS-232 only, check current Ethernet IP Addressaaa.bbb.ccc.dddEMK999RS-232 only, check current Ethernet Subnet Mask Addressaaa.bbb.ccc.dddHUE???Setting HUENo response	BEV998	Check the current Vertical(V) Bezel correction Maximum value	BEV???					
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???=(000~100)+200*(OUT No1) for dual/Video Wall modeFor example: OUT B set the Brightness value to 57 =(57)+200*(2-1) = 257BRI99?Check current Brightness value99?=999 for matrix modeBRI???99?=991~994=OUT1~4 for dual/Video Wall mode99?=991~994=OUT1~4 for dual/Video Wall modeCAL???RECALL FAV. ???=001~004=FAV.1~4CAL???CON???Setting ContrastNo responseCON999Command setting same as Brightness(BRI)CON???EGW999RS-232 only, check current Ethernet Gateway Addressaaa.bbb.ccc.dddEIP999RS-232 only, check current Ethernet IP Addressaaa.bbb.ccc.dddHUE???Setting HUENo response		???=000~100 for matrix mode						
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99?=999 for matrix mode99?=991~994=OUT1~4 for dual/Video Wall modeCAL???RECALL FAV. ???=001~004=FAV.1~4CAL???CON???Setting ContrastNo responseCON999Command setting same as Brightness(BRI)CON???EGW999RS-232 only, check current Ethernet Gateway Addressaaa.bbb.ccc.dddEIP999RS-232 only, check current Ethernet IP Addressaaa.bbb.ccc.dddEMK999RS-232 only, check current Ethernet Subnet Mask Addressaaa.bbb.ccc.dddHUE???Setting HUENo response	BRI99?	Check current Brightness value	BRI???					
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EMK999 RS-232 only, check current Ethernet Subnet Mask Address aaa.bbb.ccc.ddd HUE??? Setting HUE No response	EIP999	RS-232 only, check current Ethernet IP Address	aaa.bbb.ccc.ddd					
HUE??? Setting HUE No response	EMK999	RS-232 only, check current Ethernet Subnet Mask Address	aaa.bbb.ccc.ddd					
	HUE???	Setting HUE	No response					
HUE999 Command setting same as Brightness (BRI) HUE???	HUE999	Command setting same as Brightness (BRI)	HUE???					
INP??? INPUT selection???=001~004=IN 1~4 INP???	INP???	INPUT selection???=001~004=IN 1~4	INP???					
Execute OUT???		Execute OUT???						

RS-232 & TELNET COMMANDS

RS-232 & TELNET COMMANDS

Command	Action	ANI-QUAD Returns
INP999	Check current INPUT	INP???
LCK000	Un-lock	LCK000
LCK001	Lock	LCK001
LCK999	Check current Lock/un-lock status	LCK???
MNE001	OSD Menu EXIT	No response
MND001	OSD Menu DOWN	No response
MNL001	OSD Menu LEFT (-)	No response
MNO001	OSD Menu OK	No response
MNR001	OSD Menu RIGHT (+)	No response
MNU001	OSD Menu UP	No response
MNX001	OSD Menu	No response
MOD001	Matrix mode	MOD001
MOD002	Dual mode	MOD002
MOD003	Video Wall mode	MOD003
MOD999	Check current output mode status	MOD???
OUT???	OUTPUT selection???=001~004=OUT A~D	OUT???
OUT999	Check current OUTPUT	OUT???
PWR000	Power Off(Standby)	PWR000
PWR001	Power On	PWR001
PWR999	Check current power status	PWR???
RES???	Output resolution???=001~corresponding OSD menu list	RES???
RES999	Check current output resolution	RES???
RST001	Factory Reset	RST001
RST002	Picture Reset	RST002
SAT???	Setting Saturation	No response
SAT999	Command setting same as Brightness (BRI)	SAT???
SAV???	SAVE FAV. ???=001~004=FAV.1~4	SAV???
VER999	Check firmware version	VER???
		Example: VER110=V1.1

GUI INTERFACE

SIMPLE CONTROL PANEL



FULL FUNCTION CONTROL PANEL

* 1						
Refresh	Matrix	Du	ial .	TV Wall	RS-232 C Et	hemet
	AL	AR	BL	BR	Connect Dis	connect
ОК 🕨			-		COM1: •	
Advanced Exit V Menu	1	2	3	4	Output Resolution	1080p60
Dual A Audio Bezel Correction Image: Construction Image: Construction Image: Constr	AL AR BL eset BR	rast	Brightne AL AR BL BR	ess 50 50 50 50 50 50	Saturation AL 50) AR 50) BL 50) BR 50)	Hue AL • 50 • AR • 50 • BL • 50 • BR • 50 •
C Bitstream C HD F/W Ver	1.20				Picture	Reset Refresh
Recall / Save Recall 1 Recall 2 Recall 3 Recall 4	Save 1	Save 2 S	ave 3 Sav	re 4	Set IP IP 192. Subnet Mask 255. Gate Way 192.	168.005.051 255.255.000 168.005.254

This is a Zip file (compressed). This is the actual software used to control the ANI-QUAD.

CLICK THE LINK TO FROM OUR WEBSITE TO DOWNLOAD ANI-QUAD GUI INSTALLATION FILES or use this link (http://www.a-neuvideo.com/shop/Software/ANI-QUAD_RS232_Ethernet_AP_v16C.ZIP) After downloading the contents to your computer, extract the files. Then select setup.exe to begin the installation.

OSD MENU

OSD OPERATION

Main Menu		Sub Menu	Adjustments	Default	
PICTURE		CONTRAST	0 ~ 100	50	
(*1)		BRIGHTNESS	0 ~ 100	50	
	ALL	SATURATION	0 ~ 100	50	
		HUE	0 ~ 100	50	
		DUAL AL	0 ~ 100		
		DUAL AR			
	DUAL	DUAL BL			
		DUAL BR			
		OUTA			
	Т٧	OUT B			
	WALL	OUT C			
		OUT D			
	D/T	RESET			
	ALL	RESET ALL			
		EXIT			
OUTPUT RESOLUTION		480p, 576p, 720p50, 720p60, 1080i50 (*2), 1080i60, 1080p24, 1080p50, 1080p60, 1024x768, 1280x800, 1280x1024,1366x768, 1440x900,1600x900, 1600x1200,1680x1050, 1920x1200		720p60	
		EXIT			
AUDIO EDID (*3)		LPCM 2CH, LPCM 6CH, LPCM 8CH, BIT-STREAM, HD		LPCM 2CH	
		EXIT			
OSD SETTINGS		POSITION	LEFT T, RIGHT T, LEFT B, RIGHT B	LEFT T	
		H OFFSET	0 ~ 20	10	
		V OFFSET	0 ~ 20	10	
		TRANSPARENCY	0~9	4	
		MENU TIMEOUT	5 ~ 50, OFF (*4)	8	
		INFO.TIMEOUT	5 ~ 50, OFF	8	
		INFO.DISPLAY	ON, OFF	ON	
		BRIEF INFO	ON, OFF	OFF	
		EXIT			
HDCP		INPUT(*5)	ACCEPT, NOT ACCEPT	ACCEPT	
		OUTPUT(*6)	FOLLOW INPUT, ALWAYS ON	FOLLOW INPUT	
		EXIT			

OSD MENU

OSD OPERATION

Main Menu	Sub Menu	Adjustments	Default
BEZEL CORRECTION	CORRECTION	ON, OFF	OFF
(*7)	H CORRECTION	0 ~ by output resolution	0
	V CORRECTION	0 ~ by output resolution	0
	EXIT		
RECALL / SAVE	RECALL	CANCEL, FAV.1~ 4	CANCEL
(*8)	SAVE	CANCEL, FAV.1~ 4	CANCEL
	EXIT		
ETHERNET	IP MODE	DHCP, STATIC	DHCP
	STATIC SET	IP, MASK, GATE	IP
	BYTE1		192
	BYTE2		168
	BYTE3		5
	BYTE4		155
	RE-LINK (*9)		
	TIMEOUT (Min.) (*10)	5~60, OFF	10
	EXIT		
OTHERS	IR ADDRESS(*11)	0 ~ 3	0
	EXIT		
FACTORY DEFAULT EXIT	YES, NO		NO
	EXIT		
INFORMATION (*12)	IN/OUT RESOLUTION, SOURCE HDCP/AUDIO, OUT MODE, FIRMWARE VER		
	EXIT		
EXIT			

Note:

*1 Picture: In Matrix mode, four pictures adjust simultaneously. In Dual/Video Wall mode, each picture can adjust individually and support individual last memory feature.

*2 Output: In Video Wall mode and Dual Mode, Output resolution 1080i@50Hz and 1080i@60Hz are not supported.

*3 AUDIO EDID: Embedded input audio EDID contents, LPCM 2CH = LPCM 2CH LPCM 6CH = LPCM 2CH/ 6CH LPCM 8CH = LPCM 2HC/ 6CH/ 8CH BITSTREAM = LPCM 2CH, AC3, DTS HD = LPCM 2CH/ 6CH/ 8CH, AC3, DTS, Dolby Digital Plus, DTS-HD

*4 TIMEOUT: OFF means MENU and INFO will show continuously on the screen

*5 HDCP INPUT: ACCEPT: Support HDCP source, this is default setting. NOT ACCEPT: Not support HDCP source.

For example: Apply source.

*6 HDCP OUTPUT: FOLLOW INPUT: If source with HDCP the output will support HDCP. If input source without HDCP the output will not support HDCP. When in Dual mode, one of each side (Left or Right) support HDCP, the output will support HDCP. ALWAYS ON: All the displays need to support HDCP, to avoid switching source from non-HDCP to HDCP, or flashing image or no image.

*7 BEZEL CORRECTION: Only supported in Video Wall mode, after adjustment the system will support last memory function.

*8 SAVE/RECALL: To SAVE/RECALL input/output setting, the system support last memory function to save all settings.

*9 Ethernet RE-LINK: After the setup, need to RE-LINK the system and re-connect the system again.

*10 Ethernet TIMEOUT: Select OFF to end the time out function or when telnet is under idol without sending commands within the time out setting the telnet system will be terminated.

*11 IR ADDRESS: This setting is to match the IR remote control dip switch. Refer to section x.x for remote control settings.

*12 INFORMATION: To show Input/Output/Audio/Mode/Firmware information.

TIMING

INPUT TIMING

Support Timing
480i@59
480p@60
576i@50
576p@50
720p@25,30,50,60,
1080i@50,60
1080p@24,25,30,50,60
640x480@60,72,75,85
720x400@70
800x600@56,60,72,75,85
1024x768@60,70,75,85
1152x864@70,75
1280x720@60cvt
1280x768@60RB,60,75
1280x800@60RB,60,75
1280x1024@60,60cvt,75
1360x768@60
1366x768@60RB,60
1400x1050@60RB,60
1440x900@60RB,60,75
1600x900@60RB
1600x1200@60
1680x1050@60RB,60
1920x1200@60RB

OUTPUT TIMING

Support Timing					
480p60	1024x768@60				
576p50	1280x800@60				
720p50	1280x1024@60				
720p60	1366x768@60				
1080i50 (Matrix Mode Only)*	1440x900@60				
1080i60 (Matrix Mode Only)*	1600x900@60RB				
1080p24	1600x1200@60				
1080p50	1680x1050@60				
1080p60	1920x1200@60RB				

*Note: Output: In Video Wall mode and Dual Mode, Output resolution 1080i@50Hz and 1080i@60Hz are not supported.

WEB GUI

GUI SCREEN SHOTS

Note: Device power Status must set to ON and Source status must be unlock in order to set the setting accordingly.

Picture Output Resolution Audio OSD Settings	Information-In INI : No Signal INI : No Signal INI : No Signal INI : No Signal	UT: 108050 Out Mode : Matrix Mode	Status Power: ON OFF Output A From Japan 1 Output B From Input 4 Output D From Input 1 Output D From Input 1	Source Out Mode: Matrix Output Image: Source Lock UnLock	IR Addess: 0 v Recall: Cancel v Sere: Cancel v Factory Dataset
HDCP BEZEL Conection Ethernet	Con		So Out		50
	Brig	hhness	50 Out		50

Click, drag, select or key-in on each selection setting to make the changes immediately.

Picture	Information-In	Information-Out	Status	Source	IR/Recall/Save/Factory
	IN1 : No Signal	OUT: 1080p50	Power: ON OFF	Out Mode : Matrix 🗸	IR Address : 0 🗸
Audio	DG : No Signal	Out Mode : Matrix Mode	Output A From Input 1 Output B From Input 4	Osput 🔲 💙 From Input 📋 🔍	Sate: Cancel V
	2N4 : No Signal		Output C From Input 1 Output D From Input 1	Lock UnLock	Factory Datautt
			1 estimate :		
Ethernet					
			Barbara		
			per resolution		
			-	-	
		Outpu	at Resolution : 1080p50	<u> </u>	

Picture	Information-In	Information-Out	Status	Source	IR/Recall/Save/Factory
Output Resolution	INI : No Signal	OUT: 1080p50	Power: ON OFF	Out Mode : Matrix 🗸	IR.Addmo: 0 🗸
	INI : No Signal	Out Mode : Matrix Mode	Adde Output A Fronk lapur 1 Output B From lapur 4 Output C From lapur 1 Output D From lapur 1	Ospat D V From Input 1 V	Sere: Cancel V Cancel V Factory Dataut
OSD Settings	2014 : No Signal				
HDCP			<u> </u>		
BEZEL Correction					
Ethernet					
		Audio			
		Mute :	ON OFF		
		Dual A	Left Right		
		Dual B	Left Right		
		Audio E	did : LPCM 2CH V		

WEB GUI

GUI SCREEN SHOTS





Picture	Information-In	Information Out	Status	Source	IR/Recall/Save/Factory
Output Resolution	INL : No Signal	OUT: 1080p50	Power: ON OFF	OutMode: TV Wall 🗸	IR Address 0 V
Audio	DN3 : No Signal DN4 : No Signal	On tool 17 wall more 0	Output From Jupat 1	Orper From Inpet	Sere: Cancel V
OSD Settings					
HDCP					
BE251 Conversor					
Ethernet					
		Bez	el Correction	1	
		Corre	ction : ON OFF		
		H Cor	rrection :	0	
		V Cor	mection :	0	

WEB GUI

GUI SCREEN SHOTS

Click on the Ethernet page for IP configuration setting. Both the device (from the OSD setting menu) and the web address entry bar will need to be reset once any change is made on this page.

	Information-In	Information-Out	Status	Source	IR/Recall/Save/Factory
	DVI : No Signal DV2 : No Signal DV3 : No Signal DV4 : No Signal	OUT: 1080p50	Power: ON OFF	Out Mode: TV Wall 🗸	IR.Address: 0 🗸
		Out Mode : TV Wall mode	Output From Input 1	Output From Inpat	Sale: Cancel V
		lo Signal		Lock Unlock	Factory Default
HDCP					
BEZEL Correction					
Effected					
		Ethe	met		
		PI DH			
		10.44	har Annas - 1923 423 4 443		
		12 7304	SC35. 1.10.100.111.0		
			A. DEFACTORS S	ave Changes	
		Netma	sk : 255 255 255 0	ase Changes	
		Netma Gatew	ak: 255 255 255 0	ave Changes	

CONNECTION DIAGRAM

CONNECTION DIAGRAM



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