

HARDWARE REFERENCE MANUAL VERSION: V1.0.0

Precis 4x1+1 4K60 Windowing Processor

Precis 4K60 HDMI Switcher / Windowing Processor





AV FOR AN IT WORLD®

IMPORTANT SAFETY INSTRUCTIONS

- 1. READ these instructions.
- 2. KEEP these instructions.
- 3. HEED all warnings.
- 4. FOLLOW all instructions.
- 5. DO NOT use this apparatus near water.
- 6. CLEAN ONLY with dry cloth.
- 7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. DO NOT install near any hear sources such as radiators, hear registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. ONLY USE attachments/accessories specified by the manufacturer.
- 12. USE ONLY with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
- 14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. DO NOT expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
- 16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
- 17. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- 18. DO NOT overload wall outlets or extension cords beyond their rated capacity as this can cause electric shock or fire.



The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

4

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



ESD Warning: The icon to the left indicates text regarding potential danger associated with the discharge of static electricity from an outside source (such as human hands) into an integrated circuit, often resulting in damage to the circuit.

WARNING: To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture. WARNING: No naked flame sources - such as candles - should be placed on the product. WARNING: Equipment shall be connected to a MAINS socket outlet with a protective earthing connection. WARNING: To reduce the risk of electric shock, grounding of the center pin of this plug must be maintained.

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ESD WARNING

To avoid ESD (Electrostatic Discharge) damage to sensitive components, make sure you are properly grounded before touching any internal materials.

When working with any equipment manufactured with electronic devices, proper ESD grounding procedures must be followed to make sure people, products, and tools are as free of static charges as possible. Grounding straps, conductive smocks, and conductive work mats are specifically designed for this purpose. These items should not be manufactured locally, since they are generally composed of highly resistive conductive materials to safely drain static discharges, with-out increasing an electrocution risk in the event of an accident.

Anyone performing field maintenance on AMX equipment should use an appropriate ESD field service kit complete with at least a dissipative work mat with a ground cord and a UL listed adjustable wrist strap with another ground cord.



WARNING: Do Not Open! Risk of Electrical Shock. Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel. Place the equipment near a main power supply outlet and make sure that

Place the equipment near a main power supply outlet and make sure that you can easily access the power breaker switch.

WARNING: This product is intended to be operated ONLY from the voltages listed on the back panel or the recommended, or included, power supply of the product. Operation from other voltages other than those indicated may cause irreversible damage to the product and void the products warranty. The use of AC Plug Adapters is cautioned because it can allow the product to be plugged into voltages in which the product was not designed to operate. If the product is equipped with a detachable power cord, use only the type provided with your product or by your local distributor and/or retailer. If you are unsure of the correct operational voltage, please contact your local distributor and/or retailer.

FCC AND CANADA EMC COMPLIANCE INFORMATION:

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial environment. 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.

Approved under the verification provision of FCC Part 15 as a Class A Digital Device. Caution Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device. CAN ICES-3 (B)/NMB-3(B)

EU COMPLIANCE INFORMATION:

Eligible to bear the CE mark; Conforms to European Union Low Voltage Directive 2006/95/EC; European Union EMC Directive 2004/108/EC; European Union Restriction of Hazardous Substances Recast (RoHS2) Directive 2011/65/EU; European Union WEEE (recast) Directive 2012/19/EU; European Union Radio and Telecommunications Terminal Equipment (R&TTE) Directive 1999/5/EC

WEEE NOTICE:



This appliance is labeled in accordance with European Directive 2012/19/EU concerning waste of electrical and electronic equipment (WEEE). This label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

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Overview

PR-WP-412

The AMX PR-WP-412 is a high performance HDMI switch with integrated scaling and multi-windowing technology which can connect up to four 4K UHD+ HDMI sources to up to two 4K UHD+ HDMI displays and freely switch between them. A solution for monitoring or displaying multiple sources simultaneously for use in control rooms, conference rooms or classrooms. With multi-windows display, the AMX PR-WP-412 is able to build up serval layout set up for different scenarios such as PiP (Picture in Picture) and PoP (Picture outside of Picture) as well as fully customizable quad-window modes.

Features

- 4K60 4:4:4 Support Experience pixel-for-pixel video reproduction of 4K60 source video with full 4:4:4 color space
- HDCP 2.2 Support Support the latest source devices
- Seamless Switch No pausing time between full-screen video switching.
- Audio De-embed capabilities Flexible design for use in more applications
- High Dynamic Range (HDR) Support Support HDR10 in matrix mode
- Network Security Support IPv4 & IPv6 networks. Support HTTPS, SSH
- Various Audio Format PCM 2-Channel, PCM Multi-Channel, Dolby Digital, Dolby Digital Plus, Dolby Atmos, Dolby True HD, DTS, DTS HD MA

Package Contents

- 1x PR-WP-412
- 1 x 12V/3A DC Power Adapter
- 1 x US Pins
- 1 x EU Pins
- 1 x UK Pins
- 1 x AU Pins
- 3 x 3-Pin Terminal Blocks
- 4 x Shockproof Feet

Specifications

Technical	
Input	4 x HDMI IN
Input Resolution Supported	VESA
	640 x 480p @ 60, 72, 75 Hz
	720 x 400p @ 70, 85 Hz
	800 x 600p @ 56, 60, 72, 75, 85 Hz
	848 x 480p @ 60 Hz
	1024 x 768p @ 60, 70, 75, 85 Hz
	1152 x 864p @ 75 Hz
	1280 x 768p @ 60 Hz, 75 Hz
	1280 x 800p @ 60 Hz (Reduce Blanking)
	1280 x 960p @ 60 Hz
	1280 x 1024p @ 60, 85 Hz
	1360 x 768p @ 60, 75, 85 Hz
	1366 x 768p @ 60 Hz (Reduce Blanking)
	1400 x 1050p @ 60 Hz (Reduce Blanking), 75 Hz
	1440 x 900p @ 60 Hz (Reduce Blanking), 75, 85 Hz
	1600 x 900p @ 60 Hz (Reduce Blanking)
	1600 x 1200p @ 60 Hz
	1680 x 1050p @ 60 Hz (Reduce Blanking)
	1920 x 1200p @ 60 Hz (Reduce Blanking)
	2048 x 1080p @ 50, 60 Hz
	2560 x 1440p @ 60 Hz (Reduce Blanking)
	CEA Information Code (VIC) Formats
	720 x 480i @ 59.94, 60 Hz
	720 x 576i @ 50 Hz
	720 x 480p @ 59.94, 60 Hz
	720 x 576p @ 50 Hz
	1280 x 720p @ 50, 59.94, 60 Hz
	1920 x 1080i @ 50, 59.94, 60 Hz
	1920 x 1080p @ 24, 25, 29.97, 30, 50, 59.94, 60 Hz
	3840 x 2160p @ 24, 25, 29.97, 30, 50, 59.94, 60 Hz
	4096 x 2160p @ 24, 25, 29.97, 30, 50, 59.94, 60 Hz
Input Audio Supported	PCM 2-Channel, PCM Multi-Channel, Dolby Digital, Dolby Digital Plus, Dolby
	Atmos, Dolby True HD, DTS, DTS HD MA
Output	2 x HDMI Out

Specifications

Technical	
Output Scaling	Yes, Auto or Manual
Output Scaling Resolutions	640 x 480p @ 60 Hz
	720 x 480p @ 60 Hz
	720 x 576p@ 50 Hz
	800 x 600p @ 60 Hz
	1280 x 720p @ 50/60 Hz
	1024 x 768p @ 60 Hz
	1280 x 768p, @ 60 Hz
	1280 x 800p @ 60 Hz
	1280 x 960p @ 60 Hz
	1280 x 1024p @ 60 Hz
	1360 x 768p @ 60 Hz
	1366 x 768p @ 60 Hz
	1400 x 1050p @ 60 Hz
	1440 x 900p @ 60 Hz
	1600 x 900p @ 60 Hz (Reduce Blanking)
	1600 x 1200p @ 60 Hz
	1680 x 1050p @ 60 Hz
	1920 x 1080p @ 24, 25, 30, 50, 60 Hz
	1920 x 1200p @ 60 Hz (Reduce Blanking)
	3840 x 2160p @ 24, 25, 30, 50, 60 Hz
	4096 x 2160p @ 24, 25, 30, 50, 60 Hz
Analog Audio Output Level(Max)	+1.6 dB, unbalanced; ≥2 kohm load
Analog Audio Output Frequency	< -0.5 dB to +0.2 dB, 30 Hz to 20 kHz or
Response	< -0.8 dB to +0.2 dB, 20 Hz to 20 kHz
Analog Audio Output THD+N	<0.06%, 1 kHz, -10 dB to +2 dB
Analog Audio Output SNR	>103 dB, 20 Hz to 20 kHz Vin = +2 dB
Maximum Data Rate	18Gbps
Control Method	Front panel, IR, RS232 and Web GUI

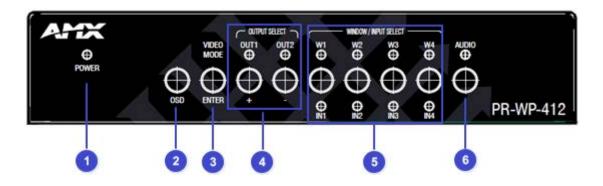
Specifications

General		
Operating Temperature	32F (0C) to 104F (40C)	
Storage Temperature	-4°F (-20°C) to 140°F (60°C)	
Humidity	5% to 90% (RH (non-condensing)	
Power Supply	Voltage, DC: 12V/7.5A	
Power Consumption (Max)	36W	
Protection	Human-body Model:	
	±10kV(Air-gap discharge)/±5kV(Contact discharge)	
Device Dimension (W x H x D)	213mm ×44mm × 205mm/ 18.97" x 1.73" x 8.07"	
Product Weight	Approx. 3.1 lbs (1.4 kg)	
Certification	FCC Part 15 Class B	
	EN 55032	
	EN 55035	
	CB IEC/EN 60950	
	CB IEC/EN 62368-1	
	UL 62368-1	
	RoHS/REACH	
	EMC (Australia)	
	EMC (Canada)	
	EMC (UKCA)	
	Prop65	

Transmission Distance

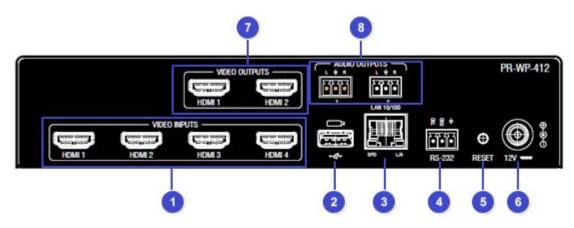
Note: Straight-through Ethernet cable of T568B is recommended.

General	Range	Supported Video
HDMI Output	15m/49ft	1080P@60Hz
	10m/33ft	4K@60Hz 4:2:0
	5m/16ft	4K@60Hz 4:4:4



No.	Name	Description		
1	POWER LED	Indicates the processor On/Off.		
2	OSD Button	Press to enter the OSD menu, or to back out from menu items.		
3	VIDEO MODE/ENTER	Press to select Video Mode between Matrix/P-in-P/3-Stack/Quad mode		
	Button	When entering OSD Menu, press as confirmed.		
4	OUTPUT SELECT /+ -	Press to select output port. The accordingly LED will turn on when it's been select.		
	Button with LED	When entering OSD Menu, press as up/down navigator.		
5	WINDOW/INPUT SELECT	When on Windowing Processor mode, press to select windowing layout W1~W4.		
	Button with LED	When on Matrix mode, press to select input IN1~IN4		
		The accordingly LED will turn on when it's been select.		
6	Audio Button with LED	Press to enter audio select. When LED on, press to switch audio mode from		
		IN1~IN4 and OUT1~OUT2.		

Rear Panel Description



No.	Name	Description	
1	VIDEO INPUTS (HDMI 1-4)	Connect to HDMI sources.	
2	USB	Only for firmware update	
3	LAN 10/100	Connect to network, used for Web GUI, Telnet control.	
4	RS232	3-pin terminal block, connect to control system for RS232 control.	
5	RESET	Reset pin hole, press to reset unit.	
6	DC 12V	DC 12V power supply input.	
7	VIDEO OUTPUTS (HDMI 1-2)	Connect to HDMI display devices.	
8	AUDIO OUTPUTS	Audio de-embedded outputs:	
		3 Pins Phoenix port: L/R analog audio output.	

Installation and Wiring

Brackets Installation

Warning: Before installation, ensure the device is disconnected from the power source.

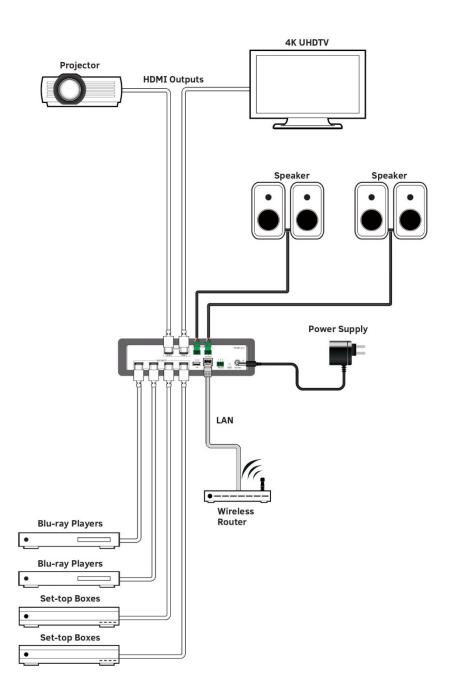
The PR-WP-412 can be mounted using V Style Surface Mounting Brackets, V Style Single Module Pole Mounting Kit, or the NMX-VRK V-Style Rack Shelf. For details, see www.amx.com.

Wiring

Warning:

Before wiring, disconnect the power from all devices. Connecting or disconnecting cables while powered, may cause damage to circuitry or possible injury. Connect and disconnect the cables with care.

- 1. Using high quality HDMI cable, firmly connect 4K or HD source devices (such as: Blu-Ray, computer, games console, satellite/ cable, music streaming device, CCTV etc.) to the HDMI input ports 1-4 of the processor.
- 2. Securely connect HDMI OUT 1-4 of the processor to HDMI IN of 4K or HD display devices, make sure all sources and displays are compatible and correctly configured.
- 3. Securely connect AUDIO OUT 1-2 of the processor to audio devices such as amplifier.
- 4. Insert the processor DC power cord. The front panel LEDs will lit on to indicate that the processor is ready for operation.
- 5. Warning: Always power off the processor before unplugging any HDMI cables following Last On, First Off protocol.
- 6. Switch between sources and displays using the processor front panel buttons, through serial RS232 or LAN.



Front Panel Control

The PR-WP-412 4x2 Matrix with Windowing Processor is designed with ease of connection and control in mind. Basic switching of input sources to output displays can be achieved by pressing the front panel buttons with the front panel LEDs indicating the current input and output status of the matrix.

After powered up, the front panel LEDs will show the matrix model name indicating the matrix is ready for operation.



Step1. Press the OSD Menu Button.

Step2. Press the button to select video mode, or pass it as confirm when entering OSD menu.

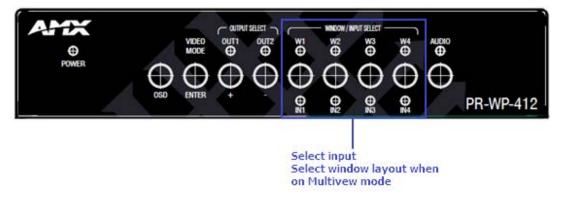


Switch Video Mode when exit OSD

Step 3. Press to select output or press the + button for page up, - button for page down to select the menu item when entering OSD menu.



Press for up/down. Output select when exit OSD. Step 4. Press to select input or press to select the current window layout display when on Multiview mode.







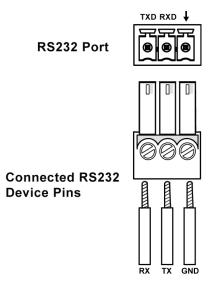
Audio Select

RS232 Operation

RS232 Control

RS232 Phoenix Connector Pinout

The following figure shows the RS232 Phoenix Connector pinout. Connect with the Phoenix Connectors provided.



RS232 port is used to control the processor through RS232 serial communication.

Advanced users may also choose to control the unit through RS232 serial communication. API commands for RS232 control are available in **Appendix: API Command List Instructions**.

Parameters	Value
Baud Rate	9600
Data Bits	8 bits
Parity	None
Stop Bits	1 bit
Flow Control	None

WebGUI Control

Identify the IP address of the PR-WP-412

Press the OSD button to enter the main menu, and then press the ENTER button once to enter the "NETWORK STATUS" page. Finally, the current IP address will be presented on the displays connected to the HDMI OUT port.

Access the Web Interface

To access the WebGUI:

- 1. Connect your PC and the LAN port of the PR-WP-412 to the same local area network.
- 2. Type the IP address of the unit into the address bar of the browser. The following page will pop up. Enter the default password "admin" and click "Login". After logging in, the main screen appears.

PR-WP-412 Window Processor	
Login	
Password	
[
	• D Login

Note: Select Launch Web UI Control Page via Default Browser or type the IP address into a web browser. Chrome, Safari, Firefox, Opera and IE10+ browsers are supported. Make sure the web browser is the latest version.

Web Interface Introduction

Network

In the Network Column, users can set up the IPv4 and IPv6 environments with the following IP mode settings:

- DHCP: When enabled, the IP address of the PR-WP-412 will be assigned automatically by the connected DHCP server.
- Static: When the PR-WP-412 fails to obtain or detect an IP address from the network to which it is connected, select "Static" to set up the IP address manually.
- Accept: Click Apply to initiate the network setting.

4 Address	DNS Address	IPv6 Network Settings for the System.
Hostname :	Domain :	IPv6 Address
-WP-412-	amx.com	
DHCP Static IP Address	DNS IP 1 :	DHCP Static IP Address
Address :	8.8.8	IPv6 Address :
2.168.1.2	DNS IP 2 :	0000.0000.0000.0000.0000.0000.0000
bnet Mask :	8.8.4.4	Subnet Prefix Length :
.255.0.0	DNS IP 3 :	128
teway :	9.9.9.9	Default Gateway :
168.1.1		0000:0000:0000:0000:0000:0000:0000

Security

In the Security Column, modification can be made for the Login Password.

Web User Management	
Username	Action
administrator	Change Password

- Web User Management: The Login Password default is admin.
 - 1. Click the "Change Password" button and the following window pops up for new password verification.
 - 2. Click the "Save" button to save the changes.

Note: Passwords must be 4 to 16 characters in length (alphanumeric only).

	Change Password	×	
leb User Manager			
	Username :		
	administrator		ion
	New Password : *		assword
	Confirm Password : *		
SH Account			
ccess :			
	×	Cancel Accept	
ON OFF			

• **SSH/Telnet Account**: SSH/Telnet Account is used to configure the user name and password of the account. For SSH Account, the default user name is **admin**, the default password is **password**. For Telnet Account, the default user name and password are null.

Note: Reboot the device for the SSH changes to take effect.

SSH Account	Telnet Account
Access :	Access :
ON OFF	ON OFF
Username :	Username :
Password :	Password :
✓ Accept	✓ Accept

- Certification Management: In the Certification Management column,
 - Private Key: Click on the "Browse" button and locate the Private Key file on your local PC then click "Open" to install the key in the unit.
 - Certificate: Click on the "Browse" button and locate the Certificate file on your local PC then click "Open" to install the certificate in the unit.

Password: Set the password used to encrypt the content stream. After entering the password press the "Accept" button to store the settings

Switcher

In the Switcher Column, 3 submenus are used to perform the settings of routing.

- Configuration:
 - Output:
 - Mirrored: This column provides control and settings of mirrored window in the Windowing mode.

General	On-Screen Display	Display Settings	Logo Setup
Scaling :	Enable OSD Information	Video Mute	Logo 1 :
Auto Manual	OSD Color :	Video Freeze	🛈 Load Logo F
Resolution :	Black 🗸	Test Pattern :	Logo 2 :
1920×1080p, 🗸	OSD Menu	OFF 🗸	Coad Logo F
Show only EDID Display	Position :	Blank Color /	Logo 3 :
Supported(DS)	Top Left 🖌 🗸	Logo :	• Load Logo F
• Save EDID		Blue 🗸	C Eddu Edgo I

- 1. General: Set Scaling as "Auto" or "Manual", and the resolutions of output sources from the drop-down menu.
- 2. On-Screen Display: Enable and disenable OSD information and further define its color and position.
- 3. Display Settings: Click to Mute or Freeze the output video sources. Set Blank Color/Logo from the drop-down menu.

Note: The format RGB is 8bits (256 colors) bitmap and the size is up to 960x540.

+ HDCP Settings: HDCP support of HDMI Input 1-4 ports can be set.

IDCP Settings	
IDCP Complicance :	
Auto	~

- **CEC Settings:** Click Manual Power On/Off to execute a display manual control on/off. Click Auto Power On/Off to define a display control automatically.

CEC Settings	
Manual Power On / Off :	
ON OFF Auto Power On / Off :	
ON OFF	
Delay Time (1 ~ 30 min) :	
2	

udio	Source	:			
None	Input	I Input	2 Input 3	Input 4	Auto
🗸 Auc	lio Mut	e			

Display Settings: Select whether to allow display sleep, and Display Sleep Delay from 1~1800 seconds.

Display Settings	
Allow Display Sl	leep
Display Sleep Dela	ay (0 ~ 1800 s) :

- Input: This column provides control and settings of the four inputs in the Windowing mode.
 - General: Set EDID Mode and the Preferred EDID from the drop-down menu.

General	
Resolution :	
No Signal	
EDID Mode :	
4K60	~
Preferred EDID :	
4096x2160p,30	~

- HDCP Settings: Select whether to exercise HDCP Compliance.

HDCP Settings	
✓ HDCP Compliance	

- Image Adjustments: Adjust the brightness, contrast, saturation, hue and sharpness H/V.

Image Adjustments	
Brightness : 50	•
Contrast: 75	
Satuation: 50	
Hue: 50	
Sharpness H: 10	
Sharpness V: 10	

- Switching
- Video Mode: Users can freely switch between Matrix and Windowing mode (P-in-P/3-Stack/Quad), and a total of 8 preset modes can choose from.



- Switch: The Switch manages the connection configurations of displays and sources.
 - Matrix

		Video Channels				Audio Channels	
nputs \ Outputs	OUTPUT 1	OUTPUT 2	All	Inputs \ Outputs	OUTPUT 1	OUTPUT 2	All
INPUT 1	۲			INPUT 1			
INPUT 2	0	۲	0	INPUT 2	۲	0	0
INPUT 3				INPUT 3		۲	
INPUT 4	0	0	0	INPUT 4	0	0	0
				Auto			
Input/Outp				None	0	0	0

- Windowing

		v	ideo Channe	els			A	udio Channel	5
nputs\Outp	Window 1 (P1)	Window 2 (P2)	Window 3 (P3)	Window 4 (P4)	All	Inputs\Outputs	OUTPUT 1	OUTPUT 2	All
INPUT 1	۲					INPUT 1			
INPUT 2	0	۲	0	0	0	INPUT 2	۲	0	0
INPUT 3			۲			INPUT 3		۲	
INPUT 4	0	0	0	۲	0	INPUT 4	0	0	0
						Auto (P1)			
Input	/Output Stat					Window1 (P1)	0	0	0
input	output stat	us				Window2 (P2)			
Sic	nal Present					Window3 (P3)	0	0	0
_	No Signal					Window4 (P4)			
	vo signal					None	0	0	0

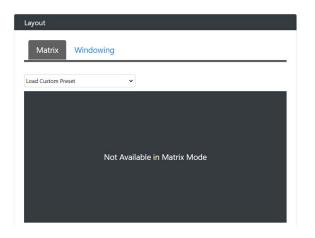
The input/output switch allows selection of output port (display) and input port (source) for specific combinations of displays and sources within the matrix.

Click the white button, it will become blue, which represents that the input and output are routed.

All: Route all outputs to one input.

None: Route output to none (turn off output)

Layout: This column provides control over the output layouts. When the unit is in the Matrix or Auto modes, only a limited selection of controls are available.



- Windowing

Reset All Layou
← Reset Window Layout
Window 4

Preset Configuration: This column allows users to define presets themselves.

Preset Configuration		
Preset Name :		
Save as Preset :		
Preset 1 (Preset 1)	✓ ④ Save	
Load in Preset :		
Preset 1 (Preset 1)	✓ () Load	

Settings: This column allows users to respectively define settings of each Input & Output in Matrix mode, and each Window & Output in Windowing mode.

Settings	
Window 1 Window 2 Window 3 Window 4	
X,Y: 0, 0 Save	
W,H: 1920 , 1080 Save	
Priority :	Output 1 Output 2 Scaling : Auto Manua
Display : ON OFF	Resolution :
Aspect Ratio :	1920×1080p,60 ~
BestFit ~	Show only EDID Display Supported(DS)
Mirror : ON OFF	Audio Source :
Border : ON OFF	Input 4 ~
Border Color :	

System

In the System Column, users can set up following settings:

• **Firmware Version**: In the Firmware Version column, the firmware version can be checked.

Package Version : 1.20	
ARM Firmware Version : 1.20	
MCU Firmware Version : 1.20	

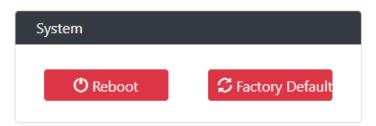
- **RS-232 Settings**: In the RS-232 Settings column, users can choose to turn "**ON**" or "**OFF**" the RS-232 stream and set the following configuration:
- **Baud Rate**: Set the baud rate. The available range is from 2400 to 115200 baud.
- Parity Bits: Set the connection parity bit. The available options are: none, odd, and even.
- Data Bits: Set the number of data bits. The available range is from 7 to 8.
- **Stop Bits**: Set the number of stop bits. The available range is from 1 to 2.

RS-232 Settings		
ON OFF		
Baud Rate :		
9600	~	
Parity Bits :		
NONE	~	
Data Bits :		
8	~	
Stop Bits :		
1	~	

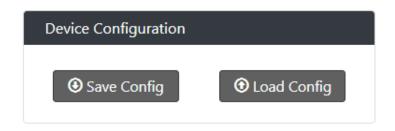
Panel Lock: In the Panel Lock column, the front panel lock can be set as "OFF", "Menu" or "ALL".

Panel Lock			
	OFF	~	

• System: In the System column, the unit can be set to "Reboot" and "Factory Default".



- **Device Configuration**: In the Device Configuration column, the current configuration can be saved and saved settings can be loaded.
 - Save Config: Save current settings as a setting file to be saved to a PC.
 - Load Config: Click to load a setting file from PC to Matrix.



• **Device Log**: In the Device Log column, log files can be saved to a PC.

Device Log		
	• Save Log Files	

• **Firmware Update**: In the Firmware Update column, the firmware can be upgraded.

Firmware Update	
Choose firmware file.	Browse
Note :	Update
LAN Module will update and reboot and login again.	automatically. Please wait about 3 minutes, then refresh

Firmware Upgrade

The PR-WP-412 uses KIT files for firmware upgrade.

Before Starting

- 1. Download the latest firmware (KIT) file to your PC. (Place KIT files on a local drive for the fastest throughput.)
- 2. Verify the following:
 - Verify that an Ethernet/RJ-45 cable is connected from the PR-WP-412 to the same network as the control system.
 - Verify the PR-WP-412 unit is powered ON.
- 3. Launch WebGUI page before you upgrade firmware to know the status of upgrading. More information, please refer to **UPGRADE STATUS** part in **WebGUI Control** section.

Firmware Upgrade through WebGUI

- 1. In the **Switcher Configuration** menu, enter the "System" page and then click "Browse" in the **Firmware Update** Column to open the file selection window.
- 3. Click "Update" to start firmware upgrading. The "Power" LED turns RED and keeps flashing.

Firmware Upgrade through USB

The system will be non-operational during the upgrade procedure below.

- 1. Copy firmware file to folder in USB original disk
- 2. Insert USB Disk to USB Type A program port
- 3. Press ID button on the rear panel 5 times in a row, and the unit starts upgrading when the "Power" LED turns RED and keeps flashing.
- 4. Once the "Power" LED turns GREEN and stop flashing, the unit finishes upgrading and auto reboots to active.

Troubleshooting

- 1. Power: Ensure all devices are powered on (sources, transmitter, receiver and display).
- 2. Indicator: Please make sure all LED indicators of the receiver is normal according to the user manual.
- 3. Devices: Ensure picture can be shown normally when directly connecting a source to a display device.
- 4. Cable: Plug in and out HDMI cable or try another HDMI cable.
- 5. Ensure the cable length being used is within available transmission range according to the Specification Section.
- 6. Compatibility: Test other source and display devices to determine correct compatibility.

Appendix: API Command List Instructions

System Commands

No.	Command	Description	Variables	Example
1.	? Or help	Display the		Command sent:
		commands listed		>?
		in the table		Response:
				Help
				System Commands
				? Or help This list
				ping ping to specified IP address
				fwversion Request the firmware version of the device
2.	? <command/>	Show details		Command sent:
		about the		>?set vidin hdcp
		specified		Response:
		command		
		function		Description: Set the HDCP mode for the specified input
				Example:
			Command send: set vidin hdcp:1,off	
				response: set HDCP compliance off for input port 1
3.	ping	Ping to specified		Command sent:
		IP address		>ping 192.168.1.2
				Response:
				ping 192.168.1.2 is alive.
4.	fwversion	Request the		Command sent:
		firmware version		>fwversion
		of the device	Response:	
				Package: 1.39
		<u>NOTE:</u>		ARM: 1.39
		<u>Command</u>		MCU: 1.39
		<u>response shall</u>		
		<u>list all</u>		
		<u>upgradable_</u>		
		<u>components</u>		
		firmware		
		version		
5.	fwupdatestatus	Report device's		Command sent:
		firmware update		>fwupdatestatus
		status with node		Response:
		status with Houe		

Image: state of the state		· · · · · · · · · · · · · · · · · · ·		
device firmware update status -99% Firmware update status: Updating MCU device firmware update status -97% device firmware update status -97% device firmware update status -94% device firmware update status -90% device firmware update status -00% device Firmware update status -00% Firmware update status -00% device firmware update status -00% device Firmware update status -00% Reboot the device device Command sent: >reboot Response: Rebooting reset factory Force the unit to a factory state (except for IP Response: Settings) Response: Resetting device to factory default parameters. <td></td> <td></td> <td>number</td> <td></td>			number	
Firmware update status: Updating MCU device firmware update status -97% device firmware update status -94% device firmware update status -94% device firmware update status -90% device firmware update status -90% device firmware update status -90% device firmware update status -00% device firmware update status -10% Firmware update status -0% device firmware update status -19% device firmware update status -19% device firmware update status -19% device firmware update status -10% Firmware update status -10% Firmware update status -10% Firmware update status -10% device Firmware update status -10% device Firmware update status -10% Firmware update status -10% Reboot the device device Response: Reboot the a factory state (except for IP Settings) Poice will automatically reboot shortly. Device will automatically reboot shortly. Device will automatically reboot shortly.				Firmware update status: copying file from web finish
6. reboot Reboot the device Command sent: >reboot 7. reset factory Force the unit to a factory state (except for IP Settings) Command sent: >reset factory Bettings) 7. reset factory Force the unit to a factory state (except for IP Settings) Command sent: >reset factory Bettings) 7. reset factory Force the unit to a factory state (except for IP Settings) Command sent: >reset factory Betting device to factory default parameters. 0 Device will automatically reboot shortly. Do NOT power off. Device will automatically reboot shortly.				device firmware update status -99%
Amount				Firmware update status: Updating MCU
Amount				device firmware update status -97%
Image: state stat				device firmware update status -94%
Firmware update status: Updating APP device firmware update status -60% device firmware update status -19% device firmware update status -0% Firmware update status: Update complete Firmware update status: Update complete Firmware update status: Please wait system reboot, do not powork off device 6. reboot Reboot the Command sent: device >reboot Response: Rebooting 7. reset factory Force the unit to a factory state (except for IP Settings) Response: Response: Response: Response: Response: Response: >reset factory Bestings) Preset factory Response: Response: Response: Response: Resetting device to factory default parameters. Device will automatically reboot shortly. Do NOT power off.				device firmware update status -90%
Amount device firmware update status -60% device firmware update status -19% device firmware update status -19% device firmware update status -0% Firmware update status: Update complete Firmware update status: Update complete Firmware update status: Please wait system reboot, do not pow off device Command sent: >reboot Response: device Rebooting 7. reset factory Force the unit to a factory state (except for IP Settings) Settings) Response: Device will automatically reboot shortly. Do NOT power off.				device firmware update status -70%
Amount				Firmware update status: Updating APP
6. reboot Reboot the device Command sent: >reboot 7. reset factory Force the unit to a factory state (except for IP Settings) Command sent: >reset factory default parameters. 9. Device will automatically reboot shortly. Do NOT power off.				device firmware update status -60%
Firmware update status: Update complete Firmware update status: Please wait system reboot, do not poworff device 6. reboot Reboot the device Command sent: reboot Response: Rebooting Rebooting 7. reset factory Force the unit to a factory state (except for IP Settings) Settings) Response: Device will automatically reboot shortly. Do NOT power off.				device firmware update status -19%
Image: Settings) Firmware update status: Please wait system reboot, do not poword off device Firmware update status: Please wait system reboot, do not poword flevice off device Freboot Reboot the device >reboot Response: Rebooting Rebooting Response: Rebooting Response: Settings) Proce the unit to a factory state (except for IP) Settings) Response: Device will automatically reboot shortly. Do NOT power off.				device firmware update status -0%
Image: Settings) Firmware update status: Please wait system reboot, do not poword off device Firmware update status: Please wait system reboot, do not poword flevice Off device Firmware update status: Please wait system reboot, do not poword flevice Off device Firmware update status: Please wait system reboot, do not poword flevice Off device Firmware update status: Please wait system reboot, do not poword flevice Off device Firmware update status: Please wait system reboot, do not poword flevice Off device Firmware update status: Please wait system reboot, do not poword flevice Off device Firmware update status: Please wait system reboot, do not poword flevice Off device Firmware update status: Please wait system reboot flevice Fore flevice Firmware update status: Please flevice Preset flevice Firmware update status: Please flevice Command sent: Firmware update status: Please flevice Preset factory Response: Preset factory Response: Preset factory default parameters. Device will automatically reboot shortly. Do NOT power off.				Firmware update status: Update complete
Image: state of the state				Firmware update status: Please wait system reboot, do not power
device >reboot Response: Rebooting 7. reset factory Force the unit to a factory state (except for IP Settings) Command sent: >reset factory Response: Response: Device will automatically reboot shortly. Do NOT power off. Device will automatically reboot shortly.				
device >reboot Response: Rebooting 7. reset factory Force the unit to a factory state (except for IP Settings) Resetting device to factory default parameters. Device will automatically reboot shortly. Do NOT power off. 	6.	reboot	Reboot the	Command sent:
Response: Response: 7. reset factory Force the unit to a factory state >reset factory (except for IP Response: Settings) Resetting device to factory default parameters. Device will automatically reboot shortly. Do NOT power off.				>reboot
7. reset factory Force the unit to a factory state (except for IP Settings) Command sent: >reset factory 8 >reset factory Response: Device will automatically reboot shortly. Do NOT power off.				Response:
A factory state >reset factory Image: a factory state (except for IP Settings) Resetting device to factory default parameters. Device will automatically reboot shortly. Do NOT power off.				Rebooting
Response: (except for IP Settings) Resetting device to factory default parameters. Device will automatically reboot shortly. Do NOT power off.	7.	reset factory	Force the unit to	Command sent:
Settings) Resetting device to factory default parameters. Device will automatically reboot shortly. Do NOT power off.			a factory state	>reset factory
Settings) Resetting device to factory default parameters. Device will automatically reboot shortly. Do NOT power off.				Response:
Device will automatically reboot shortly. Do NOT power off.				Resetting device to factory default parameters.
				Device will automatically reboot shortly.
				Do NOT power off.
8. factoryfwimage Restore device Command sent:	8.	factoryfwimage	Restore device	Command sent:
to factory >factoryfwimage			to factory	>factoryfwimage
firmware image Response:			firmware image	Response:
Are you sure you wish to reset factory parameters, and load the				Are you sure you wish to reset factory parameters, and load the
factory firmware image of Version <factory fw="" image="" version=""> (Y/</factory>				factory firmware image of Version <factory fw="" image="" version=""> (Y/N)</factory>
->y				->γ
Notice:it will take some time, please keep device power on				Notice:it will take some time, please keep device power on
Start restore to factory firmware image				Start restore to factory firmware image
9. get sn Get device serial Command sent:	9.	get sn	Get device serial	Command sent:
number >get sn			number	>get sn
Response:				Response:
Serial Number:123456789				Serial Number:123456789
10. set serial Set serial port on Command sent:	10.	set serial	Set serial port on	Command sent:
<on off=""> or off >set serial on</on>		<on off=""></on>	or off	>set serial on
Response:				Response:
Serial port is on				Serial port is on

11.	get baud	Get serial port	Command sent:
	gerbaua	current	>get baud
		communicate	Response:
		parameters	Current serial setting
		parameters	baud rate:9600
			data bit:8
			parity:none
			stop bit:1
12.	set baud	Set serial port	Command sent:
		communicate	>set baud
		parameters	Response:
			Serial port setting
			Enter baud
			rate(115200,57600,38400,19200,9600,4800,2400):115200->115200
			Enter data bit(8 or 7):8->8
			Enter parity (E for Even, O for Odd, N for none):N->O
			Enter stop bit (1 or 2):1->1
			You have entered:
			Baud rate:115200
			Data bit:8
			Parity:odd
			Stop bit:1
			Would you like to save the new settings? Y/N ->y
			New settings were saved
			>Current serial port baud rate: 115200
			>Current serial port data bit: 8
			>Current serial port parity: odd
			>Current serial port stop bit: 1
13.	get key lock	Get front panel	Command sent:
		key lock state	>get key lock
			Response:
			Current key lock level state:off
14.	set key lock	Set front panel	Command sent:
		key lock level, all	>set key lock
		for lock all front	Response:
		panel key	Front panel key lock level Setting
		button, menu	Enter key lock level (All for all key button, Menu for only menu
		for only lock	button, Off for no key button) ->menu
		menu key button	Key lock is set to menu

			>Current key lock level state:menu
15.	exit	Close telnet/ssh window session	Command sent: >exit
		<u>NOTE: The</u> <u>command sent</u> <u>by Serial port is</u> <u>not supported</u>	

Network Commands

No.	Command	Description	Variables	Example
1.	get friendly	Get device's		Command sent:
		hostname		>get friendly
				Response:
				Current device friendly name:PR-WP-412
2.	set friendly	Set device's		Command sent:
		hostname		>set friendly
				Response:
				Please input friendly name:
				Old friendlyname: PR-WP-412
				New friendlyname: PR-WP-412
				Would you like to save this setting(Y/N)y
				Setting is ok , you should reboot that make it effective
				>Current device friendly name:PR-WP-412
3.	get ip	Show the IP		Command sent:
		configuration of this		>get ip
		device		Response:
				IP Settings
				HostName: PR-WP-412
				Type: dhcp
				IP Address: 192.168.5.149
				Subnet Mask: 255.255.255.0
				Gateway IP: 192.168.5.254
				MAC Address: f8:22:85:00:14:72
4.	set ip	Setup the IP		Command sent:
		configuration of this		>set ip
		device		Response:
				Enter Host Name: PR-WP-412
				Enter IP type. Type D for DHCP, or S for Static IP and
				then Enter:S
				Enter IP Address: 192.168.1.20->192.168.1.20
				Enter Subnet Mask: 255.255.255.0->255.255.255.0
				Enter Gateway IP: 0.0.0.0->0.0.0.0
				You have entered:
				Host Name PR-WP-412
				Type Static IP
				IP Address 192.168.1.20
				Subnet Mask 255.255.255.0
				Gateway IP 0.0.0.0
				Successing in 0.0.0.0

			>get dns
5.	get dns	Get device's DNS	Command sent:
		address	
			Response:
			DNS Servers
			Domain suffix: www.amx.com
			Entry 1: 8.8.8.8
			Entry 2: 8.8.4.4
			Entry 3: 9.9.9.9
6.	set dns	Set device's DNS	Command sent:
		address	>set dns
			Response:
			Enter Domain Suffix: www.amx.com
			Enter DNS Entry 1 : 8.8.8.8
			Enter DNS Entry 2 : 8.8.4.4
			Enter DNS Entry 3 : 9.9.9.9
			You have entered:
			Domain Name: www.amx.com
			DNS Entry 1: 8.8.8.8
			DNS Entry 2: 8.8.4.4
			DNS Entry 3: 9.9.9.9
			Is this correct? Type Y or N and Enter ->Y
			Settings written. Device must be rebooted to enable
			new settings.
			>Current Domain Name: www.amx.com
			>Current DNS Entry 1: 8.8.8.8
			>Current DNS Entry 2: 8.8.4.4
			>Current DNS Entry 3: 9.9.9.9
7.	get ethernet mode	Get ethernet mode	Command sent:
			>get ethernet mode
			Response:
			Current ethernet mode : auto
8.	set ethernet mode	Set ethernet mode	Command sent:

		to auto, 100full or	>set ethernet mode
		10 half	Response:
			Current ethernet mode : auto
			Enter new ethernet mode(Auto, 100 full or 10 half)
			->10 half
			Warning: When setting ethernet mode to 10 half, it
			must reset device to factory default if need change
			etherment mode to be Auto/100 full
			Would you like to set the ethernet mode (y/n):y
			New ethernet mode set, reboot the device for the
			change to take effect.
			>Current ethernet mode : 10 half
9.	renew dhcp	Renew the DHCP	Command sent:
		lease (may cause	>renew dhcp
		telnet	Response:
		disconnection)	You may need to re-establish the telnet session since
			the device will re-acquire an IP address lease.
			>Current IP Address: 0.0.0.0
			>Current Subnet Mask: 0.0.0.0
			>Current Gateway IP: 0.0.0.0
			>Current Domain Name: cypress.local
			>Current DNS Entry 1: 10.10.10.5
			>Current DNS Entry 2: 10.10.10.2
			>Current DNS Entry 3: 0.0.0.0
			>Current IP Address: 192.168.5.149
			>Current Subnet Mask: 255.255.255.0
			>Current Gateway IP: 192.168.5.254
			>Current Domain Name: www.amx.com
			>Current DNS Entry 1: 8.8.8.8
			>Current DNS Entry 2: 8.8.4.4
			>Current DNS Entry 3: 9.9.9.9

Security Commands

No.	Command	Description	Variables	Example
1.	set telnet port	Set the device's IP		Command sent:
		port listened to for		>set telnet port
		Telnet connections		Response:
				Current telnet port number = 23
		NOTE: This		Enter new telnet port number(0 = disable telnet) ->23
		command requires		Setting telnet port number to 0
		a reboot to enable		New telnet port number set, reboot the device for the
		new settings		change to take effect.
		<u>new settings</u>		>Current telnet port: 23
		IMPORTANT: If you		
		set the Telnet port		
		to "0" to disable it,		
		<u>you will need to</u>		
		reset it in WebGUI		Command sent:
2.	set telnet username	Set the Username		>set telnet username
		for a secure Telnet		Response:
		session		Enter Telnet new username ->123
		Default = blank (no		Would you like to set this username (y/n) ->y
		username required)		
				(please set telnet password)
-				Changed && Saved Command sent:
3.	set telnet password	Set the Username		>set telnet password
		for a secure Telnet		Response:
		session		Enter Telnet new password ->123
		Default = blank (no		Would you like to set this password (y/n) ->y
		username required)		Changed && Saved
	aat aab waat			Command sent:
4.	set ssh port	Set the device's IP		>set ssh port
		port listened to for		Response:
		SSH connections		Current SSH port number = 22
				Enter new SSH port number(0 = disable ssh) ->22
		<u>NOTE: This</u>		Setting SSH port number to 22
		<u>command requires</u>		New SSH port number set, reboot the device for the
		<u>a reboot to enable</u>		change to take effect.
		<u>new settings.</u>		-
				>Current SSH port: 22
		IMPORTANT: If you		
		<u>set the SSH port to</u>		
		<u>"0" to disable it,</u>		

		1	
		<u>you will need to</u>	
		<u>reset it in WebGUI</u>	
		NOTE: This	
		<u>command is</u>	
		supported by SSH	
		only, not by telnet	
5.	set ssh username	Set the Username	Command sent:
		for a secure SSH	>set ssh username
		session	Response:
			Enter SSH new username ->123
		NOTE: This	Would you like to set this username (y/n) ->y
		command is	(please set SSH password)
		supported by SSH	Changed && Saved
		only, not by telnet	
6.	set ssh password	Set the Username	Command sent:
		for a secure SSH	>set ssh password
		session	Response:
			Enter SSH new password ->123
		NOTE: This	Would you like to set this password (y/n) ->y
		command is	Changed && Saved
		supported by SSH	
		only, not by telnet	

Configuration Commands-Input

No.	Command	Description	Variables	Example
1.	get vidin	Get the name of the	<input channel=""/> =	Command sent:
	portname:< <i>input</i>	specified input	1~4	>get vidin portname:1
	channel>			Response:
				get input port 1 named as meeting room 1
2.	set vidin	Set the name of the	<input channel=""/> =	Command sent:
	portname:< <i>input</i>	specified input	1~4	>set vidin portname:1,123
	channel>, <name></name>		<name= name="" string<="" td=""><td>Response:</td></name=>	Response:
				set input port 1 named as meeting room 2
3.	get vidin	Get the HDCP mode	<input channel=""/> =	Command sent:
	hdcp: <i><input< i=""></input<></i>	for the specified	1~4	>get vidin hdcp:1
	channel>	input		Response:
				get HDCP compliance on for input port 1
4.	set vidin	Set the HDCP mode	<input channel=""/> =	Command sent:
	hdcp:< <i>input</i>	for the specified	1~4	>set vidin hdcp:1,on
	channel>, <hdcp_co< td=""><td>input</td><td><hdcp_compliance></hdcp_compliance></td><td>Response:</td></hdcp_co<>	input	<hdcp_compliance></hdcp_compliance>	Response:
	mpliance>		= on/off	set HDCP compliance on for input port 1
5.	get vidin res: <input< td=""><td>Get input video</td><td><input channel=""/>=</td><td>Command sent:</td></input<>	Get input video	<input channel=""/> =	Command sent:
	channel>	resolution for the	1~4	>get vidin res:1
		specified input		Possible response message includes:
				 get 1920x1080p,60 video input 1
				 get no video input 1
6.	get vidin	Get edid mode for	<input channel=""/> =	Command sent:
	edidmode:< <i>input</i>	the specified input	1~4	>get vidin edidmode:1
	channel>			Response:
				get input 1 edid mode set to all hd resolutions
7.	set vidin	Set edid mode for	<input channel=""/> =	Command sent:
	edidmode:< <i>input</i>	the specified input	1~4	>set vidin edidmode:1,MIRROR OUTPUT1
	channel>, <edid_mo< td=""><td></td><td><edid_mode=< td=""><td>Response:</td></edid_mode=<></td></edid_mo<>		<edid_mode=< td=""><td>Response:</td></edid_mode=<>	Response:
	de>		{	set input 1 edid mode to MIRROR OUTPUT1
			Auto	
			All HD RESOLUTIONS	
			HD WIDE SCREEN	
			HD FULL SCREEN	
			4К	
			4K60	
			Custom	
			MIRROR OUTPUT1	
			MIRROR OUTPUT2	
			MIRROR OUTPUT2	
			MIRROR OUTPUT4	38

			MIRROR OUTPUT5	
			MIRROR OUTPUT6	
			MIRROR OUTPUT7	
			MIRROR OUTPUT8	
			}	
8.	get vidin	Get preferred	<input channel=""/> =	Command sent: >get vidin prefedid:1
	prefedid: <input< td=""><td>resolution in the</td><td>1~4</td><td></td></input<>	resolution in the	1~4	
	channel>	current edid used		Response:
		for the specified		get preferred edid set to 1920x1080p,60 for input 1
		input, no matter it is		
		under which EDID		
		mode		
9.	set vidin	Set preferred edid	<input channel=""/> =	Command sent:
	prefedid: <input< td=""><td>for the specified</td><td>1~4</td><td>>set vidin prefedid:1,1920x1080p,60</td></input<>	for the specified	1~4	>set vidin prefedid:1,1920x1080p,60
	channel>, <edid></edid>	input	<edid>=</edid>	Response:
			<h>x<v><i p="">,<rate< td=""><td>set preferred edid to 1920x1080p,60 for input 1</td></rate<></i></v></h>	set preferred edid to 1920x1080p,60 for input 1
			> <specific info=""></specific>	
			{	
			(refer to AMX EDID	
			Library)	
			640x400,85	
			640x480,60	
			640x480,72	
			640x480,75	
			640x480,85	
			720x400,85	
			720x480p,60	
			720x480p,120	
			720x480p,240	
			720x576p,50	
			720x576p,100	
			720x576p,200	
			800x600,56	
			800x600,60	
			800x600,72	
			800x600,75	
			800x600,85	
			848x480,60	
			848x480,75	
			848x480,85	
			5707700,00	

	1024x640,60	
	1024x768,60	
	1024x768,70	
	1024x768,75	
	1024x768,85	
	1152x864,75	
	1280x720,50	
	1280x720,60	
	1280x720p,60	
	1280x720p,100	
	1280x720p,120	
	1280x768,59	
	1280x768,60	
	1280x768,74	
	1280x768,75	
	1280x768,85	
	1280x800,60	
	1280x960,60	
	1280x960,85	
	1280x1024,60	
	1280x1024,75	
	1280x1024,85	
	1360x764,60	
	1360x768,60	
	1440x900,60	
	1440x900,75	
	1440x900,85	
	1400x1050,60	
	1400x1050,75	
	1600x1200,60	
	1680x1050,60	
	1920x1080i,50	
	1920x1080i,60	
	1920x1080p,24	
	1920x1080p,25	
	1920x1080p,30	
	1920x1080p,50	
	1920x1080,60	
	1920x1080p,60	
	1920x1200,59	

			1920x1200,60	
			3840x2160p,24	
			3840x2160p,25	
			3840x2160p,30	
			4096x2160p,24	
			4096x2160p,25	
			4096x2160p,30	
			3840x2160p,50	
			3840x2160,50	
			3840x2160p,60	
			3840x2160p,60CVR	
			4096x2160p,50	
			4096x2160p,60	
			}	
10.	get vidin	Get the current edid	<input channel=""/> =	Command sent:
	ediddata: <input< th=""><th>data used for the</th><th>1~4</th><th>>get vidin ediddata:1</th></input<>	data used for the	1~4	>get vidin ediddata:1
	channel>	specified input port		Response:
				>get vidin ediddata:1
				get ediddata for input 1 is: 00 FF FF FF FF FF FF 00 05 B8
				00 18 02 00 00 00 20 1E 01 03 80 00 00 78 0E EE 95 A3
				54 4C 99 26 0F 50 54 FF FF 80 D1 00 B3 00 A9 40 81 00
				81 C0 81 80 8B C0 95 00 02 3A 80 18 71 38 2D 40 58 2C
				45 00 40 84 63 00 00 1E 02 3A 80 18 71 38 2D 40 58 2C
				45 00 40 84 63 00 00 1E 00 00 00 FD 00 17 78 0F 87 3C
				00 0A 20 20 20 20 20 20 00 00 00 FC 00 41 4D 58 5F 48
				44 4D 49 31 30 76 32 0A 01 92 02 03 3A 70 6E 03 0C 00
				11 00 80 3C 20 00 80 01 02 03 04 67 D8 5D C4 01 78 80
				00 57 61 60 5F 5E 5D 64 62 63 10 20 22 1F 21 05 14 04
				03 13 07 12 16 27 01 E2 0F 03 23 09 07 07 D1 3D 80 80
				72 B0 26 40 78 C8 36 00 40 E8 63 00 00 1C 28 3C 80 A0
				70 B0 23 40 30 20 36 00 40 E8 63 00 00 1A 00 00 00 00
				00 00 00 00 00 00 00 00 00 00 00 00 00
				00 00 00 00 00 00 00 00 00 00 7A
11.	set vidin	Set edid data for the	<input channel=""/> =	Command sent:
	ediddata:< <i>input</i>	specified input	1~4	>set vidin ediddata:1,256byte EDID Data
	channel>, <edid_dat< th=""><th>channel as custom</th><th><edid_data>=</edid_data></th><th>Response:</th></edid_dat<>	channel as custom	<edid_data>=</edid_data>	Response:
	a>	edid	256byte EDID Data	set input 1 to custom edid mode and custom edid data
				to be: 0E 0D DA 10 00 00 01 00 00 00 7C 00 00 00 00 00
		NOTE: EDID mode		00 00 77 00 00 00 30 11 B6 7E DC 97 EE 76 20 7C EE 76
		will be set to		00 90 EE 76 00 00 00 00 00 02 00 00 50 71 D4 01 E8 74
		<u>Custom</u>		D4 01 70 00 00 00 50 71 D4 01 E8 74 D4 01 FF FF FF FF
		<u>Custom</u>		D4 01 70 00 00 00 50 71 D4 01 E8 74 D4 01 FF FF FF

		<u>the command</u>		BE 66 07 00 06 00 00 00 26 00 00 00 26 00 00 00 06 00 00 00 26 00 00 00 15 00 00 00 D4 7C 02 00 07 5E 05 00
				26 00 00 00 18 D0 01 00 00 00 00 00 44 2C 20 20 2C 20
				44 2C 20 61 2C 20 74 2C 20 61 2C 20 00 2C 20 00 2C 20
				62 2C 20 79 2C 20 74 2C B0 11 B6 7E 01 00 00 00 54 54
				01 00 00 00 00 00 C8 55 01 00 BC 11 B6 7E 34 32 39 34
				39 36 37 32 39 35 00 00 01 00 00 00 6C 51 01 00 F3 D8
				OF 60 31 11 B6 7E F3 D8 OF 60 8F 64 07 00 00 00 00 00
				00 00 00 00
				>set input 1 to custom edid mode
				>get ediddata for input 1 is: 25 0B 0E 0D DA 10 00 00 01
				00 00 00 7C 00 00 00 00 00 00 00 77 00 00 00 30 11 B6
				7E DC 97 EE 76 20 7C EE 76 00 90 EE 76 00 00 00 00 00
				02 00 00 50 71 D4 01 E8 74 D4 01 70 00 00 00 50 71 D4
				01 E8 74 D4 01 FF FF FF FF F0 AF D4 01 02 00 00 00 84
				60 07 00 02 5E 05 00 08 00 00 00 18 57 02 00 F3 D8 0F
				60 60 11 B6 7E F3 D8 0F 60 BE 66 07 00 06 00 00 00 26
				00 00 00 26 00 00 00 06 00 00 00
—				
12.	get vidin	Get brightness	<input channel=""/> =	Command sent:
12.	get vidin brightness:< <i>input</i>	Get brightness setting for the	<input channel=""/> = 1~4	>get vidin brightness:1
12.	-	-	-	>get vidin brightness:1 Response:
	brightness:< <i>input</i>	setting for the specified input	-	>get vidin brightness:1 Response: get brightness set to 100 for input 1
12.	brightness: <input channel> set vidin</input 	setting for the specified input Set brightness for	-	>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent:
	brightness: <input channel> set vidin brightness:<input< td=""><td>setting for the specified input</td><td>1~4 <input channel=""/>= 1~4</td><td>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50</td></input<></input 	setting for the specified input	1~4 <input channel=""/> = 1~4	>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50
	brightness: <input channel> set vidin</input 	setting for the specified input Set brightness for	1~4 <input channel=""/> =	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response:</pre>
	brightness: <input channel> set vidin brightness:<input< td=""><td>setting for the specified input Set brightness for</td><td>1~4 <input channel=""/>= 1~4</td><td>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50</td></input<></input 	setting for the specified input Set brightness for	1~4 <input channel=""/> = 1~4	>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50
	brightness: <input channel> set vidin brightness:<input channel>,<brightne< td=""><td>setting for the specified input Set brightness for</td><td>1~4 <input channel=""/>= 1~4 <brightness= 0~100<="" td=""><td><pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent:</pre></td></brightness=></td></brightne<></input </input 	setting for the specified input Set brightness for	1~4 <input channel=""/> = 1~4 <brightness= 0~100<="" td=""><td><pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent:</pre></td></brightness=>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent:</pre>
13.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss></brightne </input </input 	setting for the specified input Set brightness for the specified input	1~4 <input channel=""/> = 1~4 <brightness= 0~100<br="">(50 is bypass)</brightness=>	>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1
13.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin</brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting	1~4 <input channel=""/> = 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>=</brightness=>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response:</pre>
13.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin contrast:<input< td=""><td>setting for the specified input Set brightness for the specified input Get contrast setting for the specified input</td><td>1~4 <input channel=""/>= 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>= 1~4</brightness=></td><td><pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1</pre></td></input<></brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting for the specified input	1~4 <input channel=""/> = 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>= 1~4</brightness=>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1</pre>
13.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin contrast:<input< td=""><td>setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the</td><td>1~4 <input channel=""/>= 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>=</brightness=></td><td><pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent:</pre></td></input<></brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the	1~4 <input channel=""/> = 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>=</brightness=>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent:</pre>
13.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin contrast:<input channel> set vidin contrast:<input< td=""><td>setting for the specified input Set brightness for the specified input Get contrast setting for the specified input</td><td>1~4 <input channel=""/>= 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>= 1~4 <input channel=""/>= 1~4</brightness=></td><td><pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50</pre></td></input<></input </brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting for the specified input	1~4 <input channel=""/> = 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>= 1~4 <input channel=""/>= 1~4</brightness=>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50</pre>
13.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin contrast:<input channel> set vidin</input </brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the	1~4 <input channel=""/> = 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>= 1~4 <input channel=""/>=</brightness=>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50 Response:</pre>
13.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin contrast:<input channel> set vidin contrast:<input< td=""><td>setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the</td><td>1~4 <input channel=""/>= 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>= 1~4 <input channel=""/>= 1~4</brightness=></td><td><pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1</pre></td></input<></input </brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the	1~4 <input channel=""/> = 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>= 1~4 <input channel=""/>= 1~4</brightness=>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1</pre>
13.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin contrast:<input channel> set vidin contrast:<input channel>,<contrast< td=""><td>setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the</td><td><pre>1~4 <input channel=""/>= 1~4 <brightness= (50="" 0~100="" <input="" bypass)="" channel="" is="">= 1~4 <input channel=""/>= 1~4 <contrast= 0~100<="" pre=""></contrast=></brightness=></pre></td><td><pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1</pre></td></contrast<></input </input </brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the	<pre>1~4 <input channel=""/>= 1~4 <brightness= (50="" 0~100="" <input="" bypass)="" channel="" is="">= 1~4 <input channel=""/>= 1~4 <contrast= 0~100<="" pre=""></contrast=></brightness=></pre>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1</pre>
13. 14. 15.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin contrast:<input channel> set vidin contrast:<input channel>,<contrast ></contrast </input </input </brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the specified input	1~4 <input channel=""/> = 1~4 <brightness= 0~100<br="">(50 is bypass) <input channel=""/>= 1~4 <input channel=""/>= 1~4 <contrast= 0~100<br="">(50 is bypass)</contrast=></brightness=>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1 Command sent: >get vidin constrast:1,50 Response: set contrast to 50 for input 1 Command sent: >get vidin constrast:1,50 Response: set contrast to 50 for input 1</pre>
13. 14. 15.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin contrast:<input channel> set vidin contrast:<input channel>,<contrast > get vidin</contrast </input </input </brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the specified input Get saturation	<pre>1~4 <input channel=""/>= 1~4 <brightness= (50="" 0~100="" <input="" bypass)="" channel="" is="">= 1~4 <input channel=""/>= 1~4 <contrast= (50="" 0~100="" <input="" bypass)="" channel="" is="">=</contrast=></brightness=></pre>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1 Command sent: >get vidin satuation:1 Response: </pre>
13. 14. 15.	brightness: <input channel> set vidin brightness:<input channel>,<brightne ss> get vidin contrast:<input channel> set vidin contrast:<input channel>,<contrast > get vidin saturation:<input< td=""><td>setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the specified input Get saturation setting for the</td><td><pre>1~4 <input channel=""/>= 1~4 <brightness= (50="" 0~100="" <input="" bypass)="" channel="" is="">= 1~4 <input channel=""/>= 1~4 <contrast= (50="" 0~100="" <input="" bypass)="" channel="" is="">=</contrast=></brightness=></pre></td><td><pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1 Command sent: >get vidin constrast:1,50 Response: set contrast to 50 for input 1 Command sent: >get vidin constrast:1,50 Response: set contrast to 50 for input 1</pre></td></input<></contrast </input </input </brightne </input </input 	setting for the specified input Set brightness for the specified input Get contrast setting for the specified input Set contrast for the specified input Get saturation setting for the	<pre>1~4 <input channel=""/>= 1~4 <brightness= (50="" 0~100="" <input="" bypass)="" channel="" is="">= 1~4 <input channel=""/>= 1~4 <contrast= (50="" 0~100="" <input="" bypass)="" channel="" is="">=</contrast=></brightness=></pre>	<pre>>get vidin brightness:1 Response: get brightness set to 100 for input 1 Command sent: >set vidin brightness:1,50 Response: set brightness to 50 for input 1 Command sent: >get vidin contrast:1 Response: get contrast set to 100 for input 1 Command sent: >set vidin constrast:1,50 Response: set contrast to 50 for input 1 Command sent: >get vidin constrast:1,50 Response: set contrast to 50 for input 1 Command sent: >get vidin constrast:1,50 Response: set contrast to 50 for input 1</pre>

	saturation:< <i>input</i>	the specified input	1~4	>set vidin satuation:1,100
	channel>, <saturati< td=""><td>the specified input</td><td><pre>saturation=0~100</pre></td><td>Response:</td></saturati<>	the specified input	<pre>saturation=0~100</pre>	Response:
4.0	on>		(50 is bypass)	set saturation to 100 for input 1 Command sent:
18.	get vidin	Get hue setting for	<input channel=""/> =	>get vidin hue:1
	hue: <i><input< i=""></input<></i>	the specified input	1~4	Response:
	channel>			
10		Set hue for the	<input channel=""/> =	get hue set to 50 for input 1 Command sent:
19.	set vidin hue:< <i>input</i>			>set vidin hue:1,100
	channel>, <hue></hue>	specified input	1~4	Response:
			<hue= (50="" 0~100="" is<="" td=""><td>set hue to 100 for input 1</td></hue=>	set hue to 100 for input 1
			bypass)	
20.	get vidin	Get sharpness h	<input channel=""/> =	Command sent:
	sharpnessh: <input< td=""><td>setting for the</td><td>1~4</td><td>>get vidin sharpnessh:1</td></input<>	setting for the	1~4	>get vidin sharpnessh:1
	channel>	specified input		Response:
				get sharpnessh set to 10 for input 1
21.	set vidin	Set sharpness h for	<input channel=""/> =	Command sent:
	sharpnessh: <input< td=""><td>the specified input</td><td>1~4</td><td>>set vidin sharpnessh:1,20</td></input<>	the specified input	1~4	>set vidin sharpnessh:1,20
	channel>, <sharpnes< td=""><td></td><td><sharpnessh= 0~20<="" td=""><td>Response:</td></sharpnessh=></td></sharpnes<>		<sharpnessh= 0~20<="" td=""><td>Response:</td></sharpnessh=>	Response:
	sh>		(10 is bypass)	set sharpnessh to 20 for input 1
22.	get vidin	Get sharpness v	<input channel=""/> =	Command sent:
	sharpnessv:< <i>input</i>	setting for the	1~4	>get vidin sharpnessv:1
	channel>	specified input		Response:
				get sharpnessv set to 10 for input 1
23.	set vidin	Set sharpness v for	<input channel=""/> =	Command sent:
	sharpnessv: <input< td=""><td>the specified input</td><td>1~4</td><td>>set vidin sharpnessv:1,20</td></input<>	the specified input	1~4	>set vidin sharpnessv:1,20
	channel>, <sharpnes< td=""><td></td><td><sharpnessv= 0~20<="" td=""><td>Response:</td></sharpnessv=></td></sharpnes<>		<sharpnessv= 0~20<="" td=""><td>Response:</td></sharpnessv=>	Response:
	sv>		(10 is bypass)	set sharpnessv to 20 for input 1
24.	get vidin aspect	Get aspect ratio	<input channel=""/> =	Command sent:
	ratio: <i><input< i=""></input<></i>	setting for the	1~4	>get vidin aspect ratio:1
	channel>	specified input		Response:
				get aspect ratio set to best fit for input 1
25.	set vidin aspect	Set aspect ratio for	<input channel=""/> =	Command sent:
	ratio: <i><input< i=""></input<></i>	the specified input	1~4	>set vidin aspect ratio:1,user
	channel>, <aspect< td=""><td></td><td><aspect ratio="">=</aspect></td><td>Response:</td></aspect<>		<aspect ratio="">=</aspect>	Response:
	ratio>		{	set aspect ratio to user for input 1
			full,	>set position y of window 1 to 0
			best fit,	>set the height size for window 1 to 480
			16:9,	>set aspect ratio to user for input 1
			16:10,	
			4:3,	
			user	
			4361	

			}	
26.	get vidin	Get the border on or	<input channel=""/> =	Command sent:
20.	border: <input< td=""><td>off for the specified</td><td>1~4</td><td>>get vidin border:1</td></input<>	off for the specified	1~4	>get vidin border:1
	channel>	input	1 7	Response:
		input		get the border on for input 1
		NOTE: The		
		command is only		
		supported for		
		PR-WP-412 under		
		Matrix Mode		
27.	set vidin	Set the border on or	<input channel=""/> =	Command sent:
	border: <input< td=""><td>off for the specified</td><td>1~4</td><td>>set vidin border:1,off</td></input<>	off for the specified	1~4	>set vidin border:1,off
	channel>, <state></state>	input	<state>= on/off</state>	Response:
	,	1		set the border off for input 1
		NOTE: The		
		command is only		
		supported for		
		PR-WP-412 under		
		<u>Matrix Mode</u>		
28.	get vidin border	Get the border color	<input channel=""/> =	Command sent:
	color: <input< td=""><td>setting for the</td><td>1~4</td><td>>get vidin border color:1</td></input<>	setting for the	1~4	>get vidin border color:1
	channel>	specified input	<color>=</color>	Response:
			{	get the border color black for input 1
		NOTE: The	bk for Black,	
		command is only	r for Red,	
		supported for	g for Green,	
		PR-WP-412 under	b for Blue,	
		<u>Matrix Mode</u>	y for Yellow,	
			m for Magenta,	
			c for Cyan,	
			w for White,	
			dr for Dark Red,	
			dg for Dark Green,	
			db for Dark Blue,	
			dy for Dark Yellow,	
			dm for Dark	
			Magenta,	
			dc for Dark Cyan,	
			gr for Gray	
			}	

29.	set vidin border	Set the border color	<input channel=""/> =	Command sent:
25.	color: <input< td=""><td>setting for the</td><td>1~4</td><td>>set vidin border color:1,g</td></input<>	setting for the	1~4	>set vidin border color:1,g
			<color>=</color>	Response:
	channel>, <color></color>	specified input		set the border color green for input 1
		NOTE: The	{	
		<u>NOTE: The</u>	bk for Black,	
		<u>command is only</u>	r for Red,	
		supported for	g for Green,	
		PR-WP-412 under	b for Blue,	
		<u>Matrix Mode</u>	y for Yellow,	
			m for Magenta,	
			c for Cyan,	
			w for White,	
			dr for Dark Red,	
			dg for Dark Green,	
			db for Dark Blue,	
			dy for Dark Yellow,	
			dm for Dark	
			Magenta,	
			dc for Dark Cyan,	
			gr for Gray	
			}	
30.	get vidin	Get the video mirror	<input channel=""/> =	Command sent:
	mirror:< <i>input</i>	state from specified	1~4	>get vidin mirror:1
	channel>	input		Response:
				get the video mirror off for input 1
		NOTE: The		
		command is only		
		supported for		
		PR-WP-412 under		
		Matrix Mode		
31.	set vidin	Set the video mirror	<input channel=""/> =	Command sent:
	mirror:< <i>input</i>	on or off state for	1~4	>set vidin mirror:1,on
	channel>, <state></state>	specified input	<state>= on/off</state>	Response:
	,			set the video mirror on for input 1
		NOTE: The		
		command is only		
		supported for		
		PR-WP-412 under		
		Matrix Mode		
		INIGUIX IVIOUE		

Configuration Commands-Output

No.	Command	Description	Variables	Example
1.	get vidout	Get the name of the	<output channel="">=</output>	Command sent:
	portname: <output< td=""><td>specified output</td><td>1~2</td><td>>get vidout portname:1</td></output<>	specified output	1~2	>get vidout portname:1
	channel>	port		Response:
				output 1 is named as meeting room 1
2.	set vidout	Set the name of the	<output channel="">=</output>	Command sent:
	portname: <output< td=""><td>specified output</td><td>1~2</td><td>>set vidout portname:1,Meeting Room 2</td></output<>	specified output	1~2	>set vidout portname:1,Meeting Room 2
	channel>, <name></name>	port	<name= name="" string<="" td=""><td>Response:</td></name=>	Response:
				output 1 is named as meeting room 2
3.	get vidout	Get HDCP mode for	<output channel="">=</output>	Command sent:
	hdcp: <i><output< i=""></output<></i>	the specified output	1~2	>get vidout hdcp:1
	channel>			Response:
				output 1 is set to AUTO HDCP mode
4.	set vidout	Set HDCP mode for	<output channel="">=</output>	Command sent:
	hdcp: <i><output< i=""></output<></i>	the specified output	1~2	>set vidout hdcp:1,hdcp2.2
	channel>, <hdcp_m< td=""><td></td><td><hdcp_mode=< td=""><td>Response:</td></hdcp_mode=<></td></hdcp_m<>		<hdcp_mode=< td=""><td>Response:</td></hdcp_mode=<>	Response:
	ode>		{	output 1 is set to HDCP2.2 mode
			AUTO,	
			HDCP2.2,	
			HDCP1.4,	
			NO-HDCP	
			}	
5.	get vidout res	Get video resolution	<output channel="">=</output>	Command sent:
		for the specified	1~2	>get vidout res:1
		output		Possible response message includes:
				 output 1 resolution is 1280x720p,50
				 output 1 resolution is no signal
6.	set vidout	Set video solution	<resolution>=</resolution>	Command sent:
	res: <resolution></resolution>	for the specified	<h>x<v<i p="">,<rate></rate></v<i></h>	>set vidout res:1,4096x2160p,60
		output; it will	<specific info=""></specific>	Possible response message includes:
		change to manual	{	 output resolution is set to 4096x2160p,60
		scaling mode	640x480p,60	 unsupported resolution
		automatically if	720x480p,60	
		under Auto scaling	720x576p,50	
		mode	800x600p,60	
			1024x768p,60	
			1280x720p,50	
			1280x720p,60	
			1280x768p,60	
			1280x708p,60	
			120020000,00	

			1280x960p,60	
			1280x1024p,60	
			1360x768p,60	
			1366x768p,60	
			1400x1050p,60	
			1440x900p,60	
			1600x900p,60RB	
			1600x1200p,60	
			1680x1050p,60	
			1920x1080p,24	
			1920x1080p,25	
			1920x1080p,30	
			1920x1080p,50	
			1920x1080p,60	
			1920x1200p,60RB	
			3840x2160p,24	
			3840x2160p,25	
			3840x2160p,30	
			3840x2160p,50	
			3840x2160p,60	
			4096x2160p,24	
			4096x2160p,25	
			4096x2160p,30	
			4096x2160p,50	
			4096x2160p,60	
			}	
7.	get vidout scale	Get scale mode for		Command sent:
		video output		>get vidout scale
				Response:
				get manual scale mode for video output
8.	set vidout	Set scale mode for	<mode>=</mode>	Command sent:
	scale: <mode></mode>	video output	auto/manual	>set vidout scale:manual
				Response:
				set manual scale mode for video output
9.	get vidout osd	Get osd enable state		Command sent:
		for video output		>get vidout osd
				Response:
				get osd off for video output
10.	set vidout	Set osd enable state	<state>= on/off</state>	Command sent:
	osd:< <i>state></i>	for video output		>set vidout osd:on
				Response:

				set osd on for video output
11.	get vidout osd color	Get osd color setting		Command sent:
				>get vidout osd color
		for video output		Response:
				get osd color set to blue
12.	set vidout osd	Set osd color setting	<color>= black/blue</color>	Command sent:
	color:< <i>color></i>	for video output		>set vidout osd color:blue
				Response:
				set osd color to blue
13.	get vidout osd pos	Get osd position for		Command sent:
		video output		>get vidout osd pos
				Response:
				get osd pos set to top left
14.	set vidout osd	Set osd position for	<position>=</position>	Command sent:
	pos: <position></position>	video output	{	>set vidout osd pos:tr
			TR (Top Right),	Response:
		NOTE: The	TL (Top Left),	set osd pos to top right
		command is to set	BR (Bottom Right),	
		OSD Info position in	BL (Bottom Left),	
		Windowing	C (Center)	
		Processor, not OSD	}	
		Menu position in		
		<u>PR-WP-412</u>		
15.	get vidout cec	Get current power	<output channel="">=</output>	Command sent:
	power:< <i>output</i>	status from the sink	1~2	>get vidout cec power:1
	channel>	via CEC		Possible response message includes:
				 get cec on for sink on output 1
				 get cec fail for sink on output 1
				No attached sink
16.	set vidout cec	Set power status	<output channel="">=</output>	Command sent:
	power:< <i>output</i>	on/off for the sink	1~2	>set vidout cec power:1,on
	channel>, <state></state>	device via CEC	<state>=on/off</state>	Possible response message includes:
				 set cec on for sink on output 1
				No attached sink
17.	set vidout cec	Set power standby	<output channel="">=</output>	Command sent:
	standby:< <i>output</i>	for the sink device	1~2	>set vidout cec standby:1
	channel>	via CEC on specified		Possible response message includes:
		output port		 set cec standby for sink on output 1
				No attached sink
18.	set vidout cec	Make active for the	<output channel="">=</output>	Command sent:
	makeactive: <outpu< td=""><td>sink device via CEC</td><td>1~2</td><td>>set vidout cec makeactive:1</td></outpu<>	sink device via CEC	1~2	>set vidout cec makeactive:1
				Possible response message includes:

	t channel>	on specified output		 make active for sink on output 1
		port		No attached sink
19.	get vidout cec disp	Get cec display auto	<output channel="">=</output>	Command sent:
19.		on/off state for	1~2	>get vidout cec disp auto:2
	auto: <i><output< i=""></output<></i>		12	Response:
	channel>	specified output		get cec display auto off for output 2
20.	set vidout cec disp	Set cec display auto	<output channel="">=</output>	Command sent:
20.			-	>set vidout cec disp auto:2,on
	auto: <output< td=""><td>on/off state for</td><td>1~2</td><td>Response:</td></output<>	on/off state for	1~2	Response:
	channel>, <state></state>	specified output	<state>= on/off</state>	set cec display auto on for output 2
21				Command sent:
21.	get vidout cec sleep	Get cec display auto	<output channel="">=</output>	>get vidout cec sleep timeout:2
	timeout: <output< td=""><td>on/off delay time for</td><td>1~2</td><td>Response:</td></output<>	on/off delay time for	1~2	Response:
	channel>	specified output		
				get cec sleep timeout set to 30mins for output 2
22.	set vidout cec sleep	Set cec display auto	<output channel="">=</output>	Command sent:
	timeout: <output< td=""><td>on/off delay time for</td><td>1~2</td><td>>set vidout cec sleep timeout:2,5</td></output<>	on/off delay time for	1~2	>set vidout cec sleep timeout:2,5
	channel>, <time></time>	specified output	<time>= 1~30</time>	Response:
			minutes	set cec sleep timeout set to 5mins for output 2
23.	get vidout mute	Get video mute		Command sent:
		state for specified		>get vidout mute
		output		Response:
				get video mute off for output 1 and output 2
24.	set vidout	Set video mute for	<state>= on/off</state>	Command sent:
	mute: <state></state>	specified output		>set vidout mute:on
				set video mute on for output 1 and output 2
25.	get vidout freeze	Get video freeze		Command sent:
		state for output		>get vidout freeze
				Response:
				get video freeze off for output 1 and output 2
26.	set vidout	Set vidout freeze for	<state>= on/off</state>	Command sent:
	freeze: <state></state>	specified output		>set vidout freeze:on
				Response:
				set vidout freeze on for specified output 1 and output 2
27.	get vidout blank	Get video blank		Command sent:
	0	setting for specified		>get vidout blank
		output		Response:
		output		get video blank set to black for output 1 and output 2
28.	set vidout blank:	Set vidout blank	<pattern>=</pattern>	Command sent:
	<pre>contern></pre>	setting for specified		>set vidout blank:blue
			{	Response:
		output	black (no blank	set video test pattern to off for output 1 and output 2
			color),	>set video blank to red for output 1 and output 2
		NOTE: When select	red,	

		to LOGO, the LOGO	green,	>set video mute off for output 1 and output 2
		is fixed in the center	blue,	
			logo1,	
			logo2,	
			logo3	
			1	
29.	get vidout testpat	Get vidout test	1	Command sent:
29.	get Mubut testpat			>get vidout testpat
		pattern setting		Response:
				get video test pattern set to off for output 1 and output
				2
30.	set vidout	Set vidout test	<pattern>=</pattern>	Command sent:
50.				>set vidout testpat:red
	testpat: <pattern></pattern>	pattern setting	{	Response:
			off (no test pattern)	set video blank to black for output 1 and output 2
			red	>set video test pattern to red for output 1 and output 2
			green	
			blue	
			}	
31.	get vidout	Get vidout tmds		Command sent:
	sleep: <output< th=""><th>sleep on/off setting</th><th></th><th>>get vidout sleep:1</th></output<>	sleep on/off setting		>get vidout sleep:1
	channel>	for specified output		Response:
				get video sleep on for output 1
32.	set vidout	Set vidout tmds	<output channel="">=</output>	Command sent: >set vidout sleep:1,off
	sleep: <output< th=""><th>sleep on/off setting</th><th>1~8</th><th></th></output<>	sleep on/off setting	1~8	
	channel>, <state></state>	for specified output	<state>= on/off</state>	Response:
				set video sleep off for output 1
				>set vidout freeze off for specified output 1 and output
				2
				>set aspect ratio to user for input 1
				>set aspect ratio to best fit for input 2
				>set aspect ratio to best fit for input 3
				>set aspect ratio to best fit for input 4
33.	get vidout sleep	Get vidout tmds		Command sent:
	delay: <output< th=""><th>sleep on/off delay</th><th></th><th>>get vidout sleep delay:1</th></output<>	sleep on/off delay		>get vidout sleep delay:1
	channel>	time setting for		Response:
		specified output		get video sleep off delay time set to 300 seconds for
				output 1
34.	set vidout sleep	Set vidout tmds	<output channel="">=</output>	Command sent:
	delay: <output< th=""><th>sleep on/off delay</th><th>1~8</th><th>>set vidout sleep delay:1,100</th></output<>	sleep on/off delay	1~8	>set vidout sleep delay:1,100
	channel>, <time></time>	time setting for	<time>= 0~1800</time>	Response:
		specified output	seconds	set video sleep off delay time to 100 seconds for output

				1
				 set video test pattern to off for output 1 and output 2
35.	get audout	Get audio mute		Command sent:
55.	mute: <output< td=""><td>state for the</td><td></td><td>>get audout mute:1</td></output<>	state for the		>get audout mute:1
	channel>	specified output		Response:
	chumer>	specified output		get audio mute set to off for output 1
36.	set audout	Set audio mute for	<output channel="">=</output>	Command sent:
	mute: <i><output< i=""></output<></i>	the specified output	1~8	>set audout mute:1,on
	channel>, <state></state>		<state>= on/off</state>	Response:
		Enable or disable		set audio mute to on for output 1
		audio muting on the		
		ports specified by		
		AUDOUT_FORMAT,		
		The mute state		
		works as follows:		
		Setting:		
		AUDOUT_MUTE =		
		ENABLE		
		AUDOUT_FORMAT -		
		HDMI (HDMI audio		
		muted, AUDIO OUT		
		audio off)		
		AUDOUT_FORMAT -		
		ANALOG (HDMI		
		audio off, AUDIO		
		OUT audio muted)		
		AUDOUT_FORMAT -		
		ALL (HDMI audio		
		muted, AUDIO OUT		
		audio muted)		
		Setting:		
		AUDOUT_MUTE =		
		DISABLE		
		AUDOUT_FORMAT -		
		HDMI (HDMI audio		
		plays , AUDIO OUT		
		audio off)		
		AUDOUT_FORMAT -		
		ANALOG (HDMI		
		audio off, AUDIO		

		OUT audio plays)	
		AUDOUT_FORMAT -	
		ALL (HDMI audio	
		plays, AUDIO OUT	
		audio plays)	
37.	get vidout	Get edid data for the	Command sent:
	ediddata: <output< td=""><td>sink on specified</td><td>>get vidout ediddata:1</td></output<>	sink on specified	>get vidout ediddata:1
	channel>	output	Response:
			get edid data from output 1: 00 FF FF FF FF FF FF 00
			05 B8 00 11 04 00 00 00 1C 19 01 03 80 00 00 78 0E
			EE 95 A3 54 4C 99 26 0F 50 54 FF FF 80 D1 00 B3 00
			A9 40 81 00 81 C0 81 80 8B C0 95 00 02 3A 80 18 71
			38 2D 40 58 2C 45 00 40 84 63 00 00 1E 00 00 00 FC
			00 41 4D 58 5F 48 44 4D 49 31 76 34 0A 20 00 00 00
			FD 00 17 78 0F 66 11 00 0A 20 20 20 20 20 20 00 00
			00 FA 00 D1 C0 A9 C0 90 40 81 40 01 01 01 01 0A 01
			5F 02 03 30 70 67 03 0C 00 11 00 80 22 5F 10 20 22
			1F 21 05 14 04 03 13 02 0E 0F 11 06 07 12 15 16 1D
			1E 27 29 2A 2B 2C 2D 2F 30 31 01 23 09 07 07 1A 36
			80 A0 70 38 1F 40 30 20 35 00 40 84 63 00 00 1A 46
			37 80 70 72 38 22 40 70 C8 35 00 40 84 63 00 00 1C
			D1 3D 80 80 72 B0 26 40 78 C8 36 00 40 E8 63 00 00
			1C 28 3C 80 A0 70 B0 23 40 30 20 36 00 40 E8 63 00
			00 1A 00 00 00 00 00 00 00 45

Switching Commands

No.	Command	Description	Variables	Example
1.	load preset: <preset< td=""><td>Load the specified</td><td><preset mode="">= 1~8</preset></td><td>Command sent:</td></preset<>	Load the specified	<preset mode="">= 1~8</preset>	Command sent:
	mode>	preset mode for		>load preset:1
		switcher setting		Response:
				loaded preset 1
2.	save preset: <preset< td=""><td>Save current</td><td><preset mode="">= 1~8</preset></td><td>Command sent:</td></preset<>	Save current	<preset mode="">= 1~8</preset>	Command sent:
	mode>	switcher setting as		>save preset:2
		the specified preset		Response:
		mode		saved current switcher as preset mode 2
3.	get preset	Get preset name for	<preset mode="">= 1~8</preset>	Command sent:
	name: <preset< td=""><td>the specified preset</td><td></td><td>>get preset name:2</td></preset<>	the specified preset		>get preset name:2
	mode>	mode		Response:
				get Preset 2 as name for preset mode 2
4.	set preset	Set preset name for	<preset mode="">= 1~8</preset>	Command sent:
	name: <preset< td=""><td>the specified preset</td><td><name>= name</name></td><td>>set preset name:2,1toALL</td></preset<>	the specified preset	<name>= name</name>	>set preset name:2,1toALL
	mode>, <name></name>	mode	string	Response:
				set 1toAll as name for preset mode 2
5.	get switch VI< <i>input</i>	Get which video	<input channel=""/> =	Command sent:
	channel>	outputs is switched	1~4	>get switch VI1
		to specified input		Possible response message includes:
		or		•get switch video from input 1 for all output
		get which window is		•get switch video from input 1 for no output
		switched to		•get switch video from input 1 for output 1,2
		specified video input		•get switch video from input 1 for window 1
		(just for PR-WP-412		•invalid
		under Windowing		
		mode)		
6.	get switch	Get which video	<channel>=</channel>	Command sent:
	VO <channel></channel>	input is switched to	{	>get switch VO2
		specified output	1~4 for PR-WP-412	Possible response message includes:
		or	Window Channel	•get switch video from input 1 for output 2
		get which video	under Windowing	•get switch no video from no input for output 2
		input is switched to	mode,	•get switch video from input 1 for window 2
		specified window	1~2 for PR-WP-412	•get switch video from no video input for window 2
		(just for PR-WP-412	Output Channel	•invalid
		under Windowing	under Matrix Mode	
		mode)	}	
7.	set switch VI< <i>input</i>	Set switch video for		Possible command sent:
	channel>O <channel></channel>	input port to the	1~4 for PR-WP-412	 set switch VI1OALL
		output port.	}	 set switch VI2O1
L	I	1 •	I	

		Or	<output channel="">=</output>	•set switch VI4O2
		set switch video	{	•set switch VI2O1,2,3
		input to the	0 for Selection of No	•set switch VI2O0
		specified window	channel,	Possible response message includes:
		(just for PR-WP-412	1~4 for PR-WP-412	 set switch video from input 1 for all output
		under Windowing	Window Channel	 set switch video from no input for output 1
		mode)	under Windowing	 set switch video from no input for window 1
			mode,	set switch video from no input for output 1,2
		NOTE: The	1~2 for PR-WP-412	set switch video from input 2 for window 1,2,3
		command is linked	Output Channel	set switch video from input 2 for no output
		<u>to "set win</u>	under Matrix Mode,	•invalid switch
		<u>select" for</u>	all for Selection of	
		<u> PR-WP-412 in</u>	ALL channel	
		Windowing Mode	}	
8.	get switch CI <input< th=""><th>Get audio/video in</th><th><input channel=""/>=</th><th>Command sent:</th></input<>	Get audio/video in	<input channel=""/> =	Command sent:
	channel>	specified input are	1~4	get switch Cl1
		switched to which		Possible response message includes:
		outputs		For PR-WP-412, Matrix Mode
				•get switch video from input 1 for all output
		NOTE: "get switch		•get switch audio from input 1 for all output
		<u>CI" command</u>		•get switch video from input 1 for output 1
		<u>response as "get</u>		•get switch audio from input 1 for output 2
		switch AI" and "get		•get switch audio from input 1 for no output
		switch VI" for		
		PR-WP-412 under		For PR-WP-412, Windowing Mode
		<u>Matrix Mode, as its</u>		 no support in windowing video mode
		audio and video can		
		<u>be routed</u>		
		independently		
		NOTE: "get switch		
		<u>CI" command isn't</u>		
		supported for		
		<u> PR-WP-412 in</u>		
		Windowing Mode		
9.	get switch	Get audio/video in	<output channel="">=</output>	Command sent:
	CO <output channel=""></output>	specified output are	1~2 for PR-WP-412	>get switch CO2
		switched from which	Output Channel	Possible response message includes:
		inputs	under Matrix Mode	For PR-WP-412, Matrix Mode
				•get switch video from input 1 for output 2
				•get switch audio from input 1 for output 2

		NOTE, "and and the		and quitch video from an input for subject 2
		NOTE: "get switch		•get switch video from no input for output 2
		<u>CO" command</u>		•get switch audio from input 1 for output 2
		response as "get		•get switch video from input 1 for output 2
		switch AO" and "get		•get switch audio from no input for output 2
		switch VO" for		
		PR-WP-412 under		For PR-WP-412, Windowing Mode
		<u>Matrix Mode, as its</u>		 no support in windowing video mode
		<u>audio and video can</u>		
		<u>be routed</u>		
		independently		
		NOTE: "get switch		
		<u>CO" command isn't</u>		
		supported for		
		<u>PR-WP-412 in</u>		
		Windowing Mode		
10.	set switch Cl <input< th=""><th>Set switch both the</th><th><input channel=""/>=</th><th>Possible command sent:</th></input<>	Set switch both the	<input channel=""/> =	Possible command sent:
	channel>O <channel></channel>	audio and video	{	•set switch CI1OALL
		input to the output	0 for Selection of No	•set switch Cl0O1
		port.	input channel,	•set switch Cl0O1,2
			1~4 for PR-WP-412	■set switch CI2O0
		NOTE: "set switch	input channel	Possible response message includes:
		<u>CI" command isn't</u>	}	set switch audio and video from input 1 for all output
		supported for		set switch audio and video from no input for output 1
		<u>PR-WP-412 in</u>	<output channel="">=</output>	set switch audio and video from no input for window 1
		Windowing Mode	{	set switch audio and video from no input for output
			0 for Selection of No	1,2
		NOTE: "set switch	channel,	set switch audio and video from input 2 for window
		<u>CI" command isn't</u>	1~2 for PR-WP-412	1,2,3
		supported set input	Output Channel	set switch audio and video from input 2 for no output
		channel to None	under Matrix Mode,	•invalid switch
		(input channel = 0)	all for Selection of	
		for PR-WP-412 in	ALL channel	
		<u>Matrix Mode</u>	}	
11.	get switch Al <input< th=""><th>Get which audio</th><th><input channel=""/>=</th><th>Command sent:</th></input<>	Get which audio	<input channel=""/> =	Command sent:
	channel>	outputs is switched	1~4	>get switch Al1
		to specified audio		Possible response message includes:
		input		 get switch audio from input 1 for all output
				 get switch audio from input 1 for no output
				•get switch audio from input 1 for output 1
				•invalid

12.	get switch	Get which audio	<output channel="">=</output>	Command sent:
	AO <output channel=""></output>	input is switched to	1~2	>get switch AO2
	··	specified audio		Possible response message includes:
		output		•get switch audio from input 1 for output 2
				•get switch audio from no input for output 2
				■invalid
13.	set switch Al <input< td=""><td>Switch the audio</td><td><input channel=""/>=</td><td>Possible command sent:</td></input<>	Switch the audio	<input channel=""/> =	Possible command sent:
	channel>O <output< td=""><td>channel for the</td><td>{</td><td>•set switch AI1OALL</td></output<>	channel for the	{	•set switch AI1OALL
	channel>	specified output or	0 for no channel,	■set switch Al2O1,2
		window ,both HDMI	1~4 for input	■set switch AI2O0
		Embedded audio	channel	■set switch AI2O1
		and analog audio	}	Possible response message includes:
		output	<output channel="">=</output>	set switch audio from input 1 for all output
			{	set switch audio from input 2 for output 1,2
		NOTE: The	0 for Selection of No	set switch audio from input 2 for no output
		command is linked	output channel,	set switch audio from input 2 for window 1
		<u>to "set audout</u>	1~2 for output	■invalid switch
		priority" command	channel (both	
			Windowing and	
			Matrix Mode),	
			all for selection of all	
			output	
			}	

Windowing Commands

No.	Command	Description	Variables	Example
1.	get video mode	Get video mode for		Command sent:
	0	video output		>get video mode
				Response:
				get quad video mode for video output
2.	set video	Set video mode for	<mode>=</mode>	Command sent:
	mode: <i><mode></mode></i>	video output	{	>set video mode:pip
			matrix,	Response:
			pip,	set pip video mode for video output
			3stack,	
			quad,	
			}	
3.	get win	Get the video input	<pre><window channel="">=</window></pre>	Command sent:
	select: <window< td=""><td>to be used for the</td><td>1~4</td><td>>get win select:1</td></window<>	to be used for the	1~4	>get win select:1
	channel>	specified window		Response:
				get video input 1 to be used for window 1
		NOTE: The		
		command is only		
		supported for		
		PR-WP-412 under		
		Windowing mode		
4.	set win	Set the video input	<window channel="">=</window>	Command sent:
	select: <window< td=""><td>to be used for the</td><td>1~4</td><td>>set win select:1,2</td></window<>	to be used for the	1~4	>set win select:1,2
	channel>, <input< td=""><td>specified window</td><td><input channel=""/>=</td><td>Response:</td></input<>	specified window	<input channel=""/> =	Response:
	channel>		1~4	set video input 2 to be used for window 1
		NOTE: The		>set switch video from input 2 for window 1
		command is only		
		supported for		
		PR-WP-412 under		
		Windowing mode		
5.	get win pos	Get the position	<window channel="">=</window>	Command sent:
	x: <window channel=""></window>	x(horizontal) for the	1~4	>get win pos x:1
		specified window		Response:
		,		get position x of window 1 is 50
		NOTE: The		
		command is only		
		supported for		
		PR-WP-412 under		
		Windowing mode		
6.	set win pos	Set the position	<window channel="">=</window>	Command sent:
0.		Set the position		

channel>, svalue> specified window cvalue>= 0-Width af current output Possible response message includes: - set position x of window 1 to 100 7. get win pos y-swindow channel>- y-swindow Command sent: -set win pos y: 1. Response: get position y of window 1 is 50 8. set win pos y-swindow channel>, solution channel>, solution y-swindow channel>, solution perified window cwindow channel>- zori y-swindow channel>- zori window channel>- zori window channel>- zori window channel>- y-swindow channel>, solution Command sent: - set win pos y: 1.100 Possible response message includes: - set position y of window 1 to 100 - out of range 8. set win size width:-swindow channel>, solution Get the width size for the specified window -swindow channel>- zred Command sent: - set position y of window 1 to 100 - out of range 9. get win size width:-swindow channel> Get the width size for the specified window - swindow channel>- zred Command sent: - set window 2 is 300 10. set win size width:-swindow channel> Set the width size for the specified window set window channel>- zred Command sent: - zred		x: <window< th=""><th>x(horizontal) for the</th><th>1~4</th><th>>set win pos x:1,100</th></window<>	x(horizontal) for the	1~4	>set win pos x:1,100
Image: Set win postor of window channels and y supported for person window channels y cwindow channels y cwindow channels witht: window channels only supported for person window channels and y supported for person window channels for the specified window provide window channels for the specified window wi					
Image: Some of the specified window resolution - out of range 7. get win pos y:-swindow channel>- y:-swindow channel>- y:-swindow channel>- y:-swindow channel>- y:-swindow channel>- y:-swindow Set the position y:-swindow channel>- y: y:-swindow channel>- y: y: window channel>- y: window channel>- y: window channel>- y: window channel>- y: window channel>- y: window channel>- y: window channel>- y: window channel>- y: window channel>- y: window channel>- y:				_	
Image: Solution of the specified for prewer at the specified window protect for prewer at the specified window protect for the specified window protect for prewer at the specified protect for prewer at the			NOTE: The		
Image: supported for PR-WP-412 under. Windowina mode supported for PR-WP-412 under. Window channel>= 2 ~4 Command sent: >get win pos y:1 Response: get position y of window 1 is 50 7. get win pos y: <window channel="">= y:<window channel="">= y:<window channel="">= window channel>= y:<window channel="">= window channel>= window channel>= y:<window channel>,<wodue> y:<window channel>,<volue> y:<window channel>,<volue> y:<window channel>,<volue> y:<window channel>,<volue> y:<window channel>,<volue> y:<window channel> window channel> window channel> Set the position y:<window y:<window channel> window channel> window channel> window channel> window channel> <window channel="">= y:<window y:<window channel> window window channel> window window channel> window window channel> window window window channel> window window window channel> window window channel> window window window window window window channel> window window window window channel> window</window </window </window></window </window </window </volue></window </volue></window </volue></window </volue></window </volue></window </wodue></window </window></window></window></window>					
PR-WP-412 under, Windowing mode Command sent: >get win pos y:1 7. get win pos y:-swindow channel>- y:-swindow channel>- y:-swindow channel>- y:-swindow channel>- y:-swindow channel>- y:-swindow channel>- y:-swindow channel>- pR-WP-412 under. Windowing mode Command sent: >get position y of window 1 is 50 8. set win pos y:-swindow y:-swindow channel>, -value> Set the position y(vertical) for the specified window i=-4 8. set win pos y:-swindow channel>, -value> Set the position y(vertical) for the specified window i=-4 9. get win size width:-cwindow channel> Get the width size for the specified i=-4 9. get win size width:-cwindow channel> Get the width size for the specified i=-4 9. get win size width:-cwindow channel> Get the width size for the specified i=-4 9. get win size width:-cwindow channel> Get the width size for the specified i=-4 10. set win size width:-cwindow Set the width size for the specified i=-4 10. set win size width:-cwindow Set the width size for the specified i=-4					
Vindowing mode Windowing mode 7. get win pos y:-window channel> y:-window channel> y:-window channel> y:-window channel> y:-window channel> y:-window Get the position pression of window 1 is 50 Command sent: >get position y of window 1 is 50 8. set win pos y:-window y:-window Set the position y(vertical) for the specified window 9. get win size width:-window channel>, -walue> Set the position y(vertical) for the specified window 9. get win size width:-window channel> Get the width size for the specified window 9. get win size width:-window channel> Get the width size for the specified window Command sent: >set win size width:2 9. get win size width:-window channel> Get the width size for the specified window Command sent: >set win size width:2 Response: get the width size for window 2 is 300 9. get win size width:-window channel> Set the width size for the specified window Command sent: >get win size width:2 Response: get the width size for window 2 is 300 10. set win size width:-window Set the width size for the specified Command sent: >set win size width:2,400 <td></td> <td></td> <td></td> <td></td> <td></td>					
7. get win pos y:-window channel>- y(vertical) for the specified window cwindow channel>- y(vertical) for the specified window command sent: 1~4 Command sent: set win pos y:1 Response: get position y of window 1 is 50 8. set win pos y:-window channel>, svalue> Set the position y(vertical) for the specified window <window channel="">- PR-WP-412 under PR-WP-412 under Windowing mode Command sent: >set win pos y:1,100 8. set win pos y:-window channel>, svalue> Set the position y(vertical) for the specified window <window channel="">- of current output resolution Command sent: >set win pos y:1,100 9. get win size width:-window channel> Get the width size for the specified window <window channel="">= resolution Command sent: >set position y of window 1 to 100 • out of range 9. get win size width:-window channel> Get the width size for the specified window <window channel="">= r=4 Command sent: >get win size width:2 Response: get the width size for window 2 is 300 10. set win size width:-window window Set the width size for the specified window <window channel="">= r=4 Command sent: >set win size width:2,400 10. set win size width:-window Set the width size for the specified <window channel="">= r=4 Command sent: >set win size width:2,400</window></window></window></window></window></window>					
and part of par	7	get win nos		<pre><window.channel>=</window.channel></pre>	Command sent:
8. set win pos y: Set twin pos y: Set twin pos y: Set twin pos y: Set the position y: Set the position y: Set the width size position y of window 1 to 100 Set the width size position y of window 1 to 100 Set the width size piget win size width:2 Set the width size piget win size width:2 Set the width size piget win size width:2 Set the width size piget the width size for window 2 is 300 Set the width size piget win size width:2,400 Set the sige figet figet win size width:2,400 Set win size width:2,400 10. set win size width:: Set the specified piget figet win size width:2,400 Set win size width:2,400 Set win size width:2,400 Set win size width:2,400	/.				
9. get window get position y of window 1 is 50 8. set win pos y: <window channel>,<value> Set the position y(vertical) for the channel>,<value> <window channel="">= 1^4 Command sent: >>set win pos y:1,100 9. get win size width::<window channel> Set the width size position y of window 1 to 100 • set position y of window 1 to 100 9. get win size width::<window channel> Get the width size for the specified window <window channel="">= 1^4 Command sent: >>set win pos y:1,100 9. get win size width::<window channel> Get the width size for the specified window <window channel="">= 1^4 Command sent: >>et win size width:2 9. get win size width::<window< td=""> Get the width size for the specified window <window channel="">= 1^4 Command sent: >>get win size width:2 9. get win size width::<window< td=""> Set the width size for the specified window <window channel="">= 1^4 Command sent: >>get win size width:2 10. set win size width::<window< td=""> Set the width size for the specified <window channel="">= 1^4 Command sent: >>get win size width:2,400</window></window<></window></window<></window></window<></window></window </window></window </window </window></value></value></window 		y. <window <="" chunner="" td=""><td></td><td>1 4</td><td></td></window>		1 4	
8. set win pos y: <window channel>, cvalue> Set the position y!<window channel>, cvalue> <window channel="">= 1^4 Command sent: >set win pos y:1,100 9. get win size width::window channel> Set the position y!<window< td=""> <window channel="">= 1^4 Command sent: >set win pos y:1,100 9. get win size width::window channel> Get the width size for the specified window <window channel="">= 1^4 Command sent: >set position y of window 1 to 100 9. get win size width::window channel> Get the width size for the specified window <window channel="">= 1^4 Command sent: >set position y of window 1 to 100 9. get win size width::window channel> Get the width size for the specified window <window channel="">= 1^4 Command sent: >get win size width:2 Response: get the width size for window 2 is 300 10. set win size width::window Set the width size for the specified window <window channel="">= 1^4 Command sent: >set win size width:2,400</window></window></window></window></window></window<></window></window </window 			specified window		
8. set win pos y: <window channel>,<value> Set the position y(vertical) for the specified window <window channel="">= 1^4 Command sent: >set win pos y:1,100 8. set win pos y:<window channel>,<value> Set the position y(vertical) for the specified window <window channel="">= of current output resolution Command sent: >set win pos y:1,100 9. get win size width:<window channel> Get the width size for the specified window <window channel="">= resolution Command sent: >set position y of window 1 to 100 9. get win size width:<window channel> Get the width size for the specified window <window channel="">= resolution Command sent: >get win size width:2 Response: get the width size for window 2 is 300 10. set win size width:cwindow Set the width size for the specified window <window channel="">= resolution Command sent: >get the width size for window 2 is 300 10. set win size width:cwindow Set the width size for the specified window <window channel="">= resolution Command sent: >get the width size for window 2 is 300 10. set win size width:cwindow Set the width size for the specified window <window channel="">= resolution Command sent: >set win size width:2,400</window></window></window></window></window </window></window </window></value></window </window></value></window 			NOTE		
supported for PR-WP-412 under, Windowing mode supported for PR-WP-412 under, Window indow supported for Y Set the position Y swindow channel>= Y Command sent: >set win pos y:1,100 8. set win pos y Set the position y specified window of current output resolution Command sent: >set position y of window 1 to 100 9. get win size width:-window channel> Get the width size for the specified window swindow channel>= I*4 Command sent: >get win size window window 9. get win size width:-window channel> Get the width size for the specified window swindow channel>= I*4 Command sent: >get win size window 2 is 300 9. get win size width:-window channel> Get the width size for the specified window swindow channel>= I*4 Command sent: >get win size width:2 Response: get the width size for window 2 is 300 10. set win size width:-window window Set the width size for the specified swindow channel>= I*4 Command sent: >set win size width:2,400					
PR-WP-412 under Windowing mode Window channel>= 1~4 Command sent: >set win pos y:1,100 8. Set win pos y: <window channel>,<value> Set the position y(vertical) for the specified window channel>,<value> 1~4 >set win pos y:1,100 9. get win size width:<window channel> OTE: The command is only supported for PR-WP-412 under Windowing mode cwindow channel>= 1~4 Command sent: >set position y of window 1 to 100 9. get win size width:<window channel> Get the width size for the specified window <window channel="">= 1~4 Command sent: >get win size width:2 Response: get the width size for window 2 is 300 10. set win size width:<window< td=""> Set the width size for the specified windowing mode <window channel="">= 1~4 Command sent: >get win size for window 2 is 300 10. set win size width:<window< td=""> Set the width size for the specified window <window channel="">= 1~4 Command sent: >set win size width:2,400 10. set win size width:<window< td=""> Set the width size for the specified window <window channel="">= 1~4 Command sent: >set win size width:2,400</window></window<></window></window<></window></window<></window></window </window </value></value></window 					
Vindowing mode Vindow channel>= Command sent: >set win pos y: <window< th=""> Set the position y(vertical) for the channel>,<value> Set the position y(vertical) for the specified window Command sent: set win pos y:1,100 >set win pos y:1,100 Possible response message includes: </value></window<>					
8. set win pos y: <window channel>,<volue> Set the position y(vertical) for the specified window <window channel="">= 1~4 Command sent: >set win pos y:1,100 NOTE: The command is only supported for PR-WP-412 under Windowing mode resolution Possible response message includes: >set position y of window 1 to 100 9. get win size width:<window channel> Get the width size for the specified window <window channel="">= 1~4 Command sent: >set position y of window 1 to 100 9. get win size width:<window channel> Get the width size for the specified window <window channel="">= 1~4 Command sent: >get win size width:2 Response: get the width size for window 2 is 300 10. set win size width:<window< td=""> Set the width size for the specified window <window channel="">= 1~4 Command sent: >set win size width:2,400 10. set win size width:<window< td=""> Set the width size for the specified <window channel="">= 1~4 Command sent: >set win size width:2,400</window></window<></window></window<></window></window </window></window </window></volue></window 					
y: <window channel>,<value> y(vertical) for the specified window 1~4 >set win pos y:1,100 NOTE: The command is only supported for PR-WP-412 under width:<window channel> 1~4 >set win pos y:1,100 9. get win size width:<window channel> Get the width size for the specified window 1~4 >set win pos y:1,100 9. get win size width:<window channel> Get the width size for the specified window 10. set win size width:<window< td=""> Set the width size for the specified window 10. set win size width:<window< td=""> Set the width size for the specified 10. set win size width:<window< td=""> Set the width size for the specified 10. set win size width:<window< td=""> Set the width size for the specified Command sent: > > 10. set win size width:<window< td=""> Set the width size for the specified 1~4 Command sent: > > ></window<></window<></window<></window<></window<></window </window </window </value></window 					Common docat
9. get win size width: Get the width size supported for PR-WP-412 under Windowing mode Possible response message includes: • set position y of window 1 to 100 • out of range 9. get win size width: Get the width size for the specified window Command sent: • set win size width:2 Response: get the width size for window 2 is 300 9. get win size width: Get the width size for the specified window Command sent: • set or window 2 is 300 9. get win size width: MOTE: The command is only supported for PR-WP-412 under Windowing mode 1~4 Command sent: • set win size width:2 Response: get the width size for window 2 is 300 10. set win size width: Set the width size for the specified window Command sent: • set win size width:2,400 10. set win size width: Set the width size for the specified Command sent: • set win size width:2,400	8.	-	-		
 Set win size width: 10. set win size width: 11. set win size width: 11					
9. get win size width: <window channel> Get the width size for the specified windowing mode <window channel="">= 1~4 Command sent: >get win size width:2 Response: get the width size for window 2 is 300 9. get win size width:<window channel> Get the width size for the specified window <window channel="">= 1~4 Command sent: >get win size width:2 Response: get the width size for window 2 is 300 10. set win size width:<window< td=""> Set the width size for the specified <window channel="">= 1~4 Command sent: >set win size width size for window 2 is 300</window></window<></window></window </window></window 		channel>, <value></value>	specified window	_	
9. get win size Get the width size <window channel="">= Command sent: yith: ////////////////////////////////////</window>					
9. get win size Get the width size <window channel="">= Command sent: >get win size width:2 width: for the specified 1~4 >get win size width:2 Response: get the width size >get win size for window 2 is 300 NOTE: The command is only supported for PR-WP-412 under >get the width size >get the width size for window 2 is 300 10. set win size Set the width size <window< td=""> for the specified 1~4 10. set win size Set the width size <window< td=""> for the specified 1~4</window<></window<></window>				resolution	
PR-WP-412 under Windowing mode PR-WP-412 under Windowing mode Command sent: >get win size width:2 9. get win size Get the width size for the specified window <window channel="">= 1~4 Command sent: >get win size width:2 9. get win size MOTE: The command is only supported for PR-WP-412 under Windowing mode 1~4 Response: get the width size for window 2 is 300 10. set win size width:<window< td=""> Set the width size for the specified <window channel="">= 1~4 Command sent: >set win size width:2,400</window></window<></window>					
Windowing mode Windowing mode Command sent: 9. get win size Get the width size <window channel="">= Command sent: width: for the specified 1~4 >get win size width:2 <i>channel></i> window 1~4 Response: get the width size command is only get the width size for window 2 is 300 NOTE: The command is only supported for <i>pR-WP-412 under</i> Windowing mode PR-WP-412 under 10. set win size Set the width size <window channel="">= width: Set the specified 1~4 Set win size width:2,400 PR-WP-412 under 1~4 >set win size width:2,400</window></window>					
9. get win size Get the width size <window channel="">= Command sent: >get win size width:2 window window i^4 i*4 Set win size width:2 Response: get the width size i*4 i*4 Set window 2 is 300 NOTE: The command is only supported for get win size get the width size for window 2 is 300 10. set win size Set the width size <window channel="">= Command sent: 10. set win size Set the width size <window channel="">= Command sent: width: for the specified 1~4 Set win size Set the width size width: set win size Set the specified 1~4 Set win size width: for the specified 1~4 Set win size width:2,400</window></window></window>					
initial set windle Set windle Initial set windle <			Windowing mode		
Image: channel> Image: channel> Image: channel> Image: channel> Response: get the width size for window 2 is 300 NOTE: The command is only supported for PR-WP-412 under Windowing mode Image: channel> Response: get the width size for window 2 is 300 10. set win size width: Set the width size for the specified 10. set win size width: Set the width size for the specified 11. Set win size width: Set the width size for the specified 12. Set win size width: Set the width size for the specified 1~4 Set win size width:2,400	9.	get win size	Get the width size	<window channel="">=</window>	
Image: Chainer Product of the specified window get the width size for window 2 is 300 Image: NOTE: The command is only supported for PR-WP-412 under Windowing mode get the width size for window 2 is 300 10. set win size width: Set the width size for window 2 is 300 10. set win size for the specified 1~4		width: <window< td=""><td>for the specified</td><td>1~4</td><td></td></window<>	for the specified	1~4	
NOTE: The command is only supported for PR-WP-412 under Windowing mode - 10. set win size width: Set the width size for the specified Command sent: >set win size width:2,400		channel>	window		
Image: command is only supported for pr-wp-412 under windowing mode Set win size PR-WP-412 under window PR-WP-412 under window 10. set win size width: Set the width size for the specified <window channel="">= 1~4 Command sent: >set win size width:2,400 10. set win size width: 1~4 >set win size width:2,400</window>					get the width size for window 2 is 300
supported for supported for PR-WP-412 under PR-WP-412 under Windowing mode Windowing mode 10. set win size Set the width size <window channel="">= width: for the specified 1~4 >set win size width:2,400</window>			NOTE: The		
PR-WP-412 under Windowing mode Command sent: 10. set win size Set the width size <window channel="">= Command sent: width: for the specified 1~4 >set win size width:2,400</window>			command is only		
Windowing mode Windowing mode 10. set win size width: Set the width size for the specified <window channel="">= 1~4 Command sent: >set win size width:2,400</window>			supported for		
10. set win size width: Set the width size for the specified <window channel="">= 1~4 Command sent: >set win size width:2,400</window>			PR-WP-412 under		
width: <window 1~4="" for="" specified="" the="">set win size width:2,400</window>			Windowing mode		
	10.	set win size	Set the width size	<window channel="">=</window>	Command sent:
		width: <window< td=""><td>for the specified</td><td>1~4</td><td>>set win size width:2,400</td></window<>	for the specified	1~4	>set win size width:2,400
channel>, <value> window <value>= 0~Width of Response:</value></value>		channel>, <value></value>	window	<value>= 0~Width of</value>	Response:
<i>current output</i> set the width size for window 2 to 400				current output	set the width size for window 2 to 400
NOTE: The resolution			NOTE: The	resolution	

		command is only		
		<u>command is only</u>		
		supported for		
		PR-WP-412 under		
		Windowing mode		
11.	get win size	Get the height size	<window channel="">=</window>	Command sent:
	height: <window< th=""><th>for the specified</th><th>1~4</th><th>>get win size height:2</th></window<>	for the specified	1~4	>get win size height:2
	channel>	window		Response:
				get the height size for window 2 is 300
		<u>NOTE: The</u>		
		<u>command is only</u>		
		supported for		
		PR-WP-412 under		
		Windowing mode		
12.	set win size	Set the height size	<window channel="">=</window>	Command sent:
	height: <window< th=""><th>for the specified</th><th>1~4</th><th>>set win size height:2,400</th></window<>	for the specified	1~4	>set win size height:2,400
	channel>, <value></value>	window	<value>= 0~Height</value>	Response:
			of current output	set the height size for window 2 to 400
		NOTE: The	resolution	
		command is only		
		supported for		
		PR-WP-412 under		
		Windowing mode		
13.	get win	Get the display layer	<window channel="">=</window>	Command sent:
	priority: <window< th=""><th>priority for the</th><th>1~4</th><th>>get win priority:1,4</th></window<>	priority for the	1~4	>get win priority:1,4
	channel>	specified window		Response:
				get display layer priority 4 for window 1
		NOTE: The		
		command is only		
		supported for		
		PR-WP-412 under		
		Windowing mode		
14.	set win	Set the display layer	<window channel="">=</window>	Command sent:
	priority:< <i>window</i>	priority for the	1~4	>set win priority:1,3
	channel>, <priority></priority>	specified window	<priority>= 1~4</priority>	Response:
			I 7	set display layer priority 3 for window 1
		NOTE: The		
		command is only		
		supported for		
		PR-WP-412 under		
		Windowing mode		
		windowing mode		
L	1	1	I	59

15.	get audout	Get the audio	<output channel="">=</output>	Command sent:
	priority: <output< td=""><td>source priority state</td><td>1~2</td><td>>get audout priority:1</td></output<>	source priority state	1~2	>get audout priority:1
	channel>	for the specified	<priority>=</priority>	Response:
		Windowing output	{	get audio out priority for output 1 to auto
		port	i auto,	
		ροιτ		
			1~4,	
			w1~w4 (under	
			Windowing mode)	
			}	
16.	set audout	Set audio source	<output channel="">=</output>	Command sent: >set audout priority:1,w1
	priority:< <i>output</i>	priority for the	1~2	
	channel>, <priority></priority>	specified	<priority>=</priority>	Response:
		Windowing output	{	set audio out priority for output 1 to window 1
		port	auto,	
			1~4,	
		Priority Mode	w1~w4 (under	
		Definitions	Windowing mode)	
		auto:	}	
		 Under Matrix 		
		mode, active audio		
		source of certain		
		output channel		
		follow input channel		
		routing to the		
		output		
		 Under Windowing 		
		mode, active audio		
		source of certain		
		output channel		
		follow window set		
		as first priority		
		1~4: set active audio		
		source of certain		
		output channel fixed		
		in the specified		
		input channel		
		w1~w4:		
		set active audio		
		source of certain		

		output channel fixed		
		in the specified		
		window channel,		
		only work under		
		Windowing mode		
		NOTE: The		
		command is linked		
		to "set switch AI"		
		<u>command</u>		
17.	get win	Get the border on or	<window channel="">=</window>	Command sent:
	border: <window< th=""><th>off for the specified</th><th>1~4</th><th>>get win border:3</th></window<>	off for the specified	1~4	>get win border:3
	channel>	window		Response:
				get the border off for window 3
		NOTE: The		
		command is only		
		supported for		
		PR-WP-412 under		
		Windowing mode		
18.	set win	Set the border on or	<window channel="">=</window>	Command sent:
10.	border: <window< th=""><th>off for the specified</th><th>1~4</th><th>>set win border:3,off</th></window<>	off for the specified	1~4	>set win border:3,off
	channel>, <state></state>	window	<state>= on/off</state>	Response:
		WINDOW		set the border off for window 3
		NOTE: The		
		<u>command is only</u>		
		<u>supported for</u>		
		<u>PR-WP-412 under</u>		
		Windowing mode		Command sent:
19.	get win border	Get the border color	<window channel="">=</window>	Command sent: >get win border color:4
	color: <window< th=""><th>setting for the</th><th>1~4</th><th>Response:</th></window<>	setting for the	1~4	Response:
	channel>	specified window	<color>=</color>	get the border color black for window 4
			{	
		<u>NOTE: The</u>	bk for Black,	
		<u>command is only</u>	r for Red,	
		supported for	g for Green,	
		PR-WP-412 under	b for Blue,	
		Windowing mode	y for Yellow,	
			m for Magenta,	
			c for Cyan,	
			w for White,	

<i>LL</i> .				>set win mirror:1,on
22.	set win	Set the video mirror	<window channel="">=</window>	Command sent:
		Windowing mode		
		supportea for PR-WP-412 under		
		command is only supported for		
		NOTE: The		
	channel>	specified window		get the video mirror off for window 1
	mirror: <i><window< i=""></window<></i>	state for the	1~4	Response:
21.	get win	Get the video mirror	<window channel="">=</window>	Command sent: >get win mirror:1
			}	
			gr for Gray	
			dc for Dark Cyan,	
			Magenta,	
			dm for Dark	
			dy for Dark Yellow,	
			db for Dark Blue,	
			dg for Dark Green,	
			dr for Dark Red,	
			w for White,	
			c for Cyan,	
			m for Magenta,	
		Windowing mode	y for Yellow,	
		PR-WP-412 under	b for Blue,	
		supported for	g for Green,	
		command is only	r for Red,	
		NOTE: The	bk for Black,	
			{	set the border color green for window 4
	channel>, <color></color>	specified window	<color>=</color>	Response:
_	color: <window< th=""><th>setting for the</th><th>1~4</th><th>>set win border color:4,g</th></window<>	setting for the	1~4	>set win border color:4,g
20.	set win border	Set the border color	, <window channel="">=</window>	Command sent:
			}	
			gr for Gray	
			dc for Dark Cyan,	
			Magenta,	
			dm for Dark	
			dy for Dark Yellow,	
			dg for Dark Green, db for Dark Blue,	
			da for Dark Groon	

	mirror: <window< th=""><th>on or off state for</th><th>1~4</th><th>Response:</th></window<>	on or off state for	1~4	Response:
	channel>, <state></state>	the specified	<state>= on/off</state>	set the video mirror on for window 1
		window		
		NOTE: The		
		<u>command is only</u>		
		supported for		
		<u>PR-WP-412 under</u>		
22		<u>Windowing mode</u>	<window channel="">=</window>	Command sent:
23.	get win	Get the video		>get win display:1
	display: <window< td=""><td>display state for the</td><td>1~4</td><td>Response:</td></window<>	display state for the	1~4	Response:
	channel>	specified window		get the video display on for window 1
		<u>NOTE: The</u>		
		<u>command is only</u>		
		supported for		
		PR-WP-412 under		
		Windowing mode		
24.	set win	Set the video display	<window channel="">=</window>	Command sent:
	display: <window< td=""><td>on or off state for</td><td>1~4</td><td>>set win display:1,off</td></window<>	on or off state for	1~4	>set win display:1,off
	channel>, <state></state>	the specified	<state>= on/off</state>	Response:
		window		set the video display off for window 1
		<u>NOTE: The</u>		
		command is only		
		supported for		
		PR-WP-412 under		
		Windowing mode		
25.	reset win	Reset the specified	<video mode="</td"><td>Command sent:</td></video>	Command sent:
	layout:< <i>video</i>	window layout of	{	>reset win layout:all,all
	mode>, <window< td=""><td>certain Video mode</td><td>pip,</td><td>Response:</td></window<>	certain Video mode	pip,	Response:
	channel>	to default setting	3stack,	reset all window layout of all video mode to default
			quad,	
			all	
			}	
			<pre> </pre> <	
			{	
			1~4,	
			all	
			}	
L			1	



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