Vaddio API

PCC MatrixMIX 2.1.0 February 03, 2026

NAME

audio mute

SYNOPSIS

audio channel[1-4] mute { get | set }

DESCRIPTION

Get or set audio mute for a specific channel.

OPTIONS

channel[1-4]	The audio channel to modify
get	Get the current mute setting
set	Turn mute on or off

EXAMPLES

audio channel1 get

Get mute status for channel 1

---

audio channel2 mute on

Turn mute on for channel 2.

---

audio channel3 mute off

Turn mute off for channel3.

NAME

audio volume

SYNOPSIS

audio channel[1-4] volume { get | set }

DESCRIPTION

Method used to get or set the audio volume for a specific channel.

OPTIONS

channel[1-4]	The audio channel to modify
get	Get the volume setting
set	Set the volume
up	Increase volume by 1db
down	Decrease volume by 1db

EXAMPLES

audio channel1 volume get

Get the current volume for channel 1.

---

audio channel3 volume set -20

Set the volume on channel 3 to -20db.

---

audio channel4 volume set 3

Set the volume on channel 4 to +3db.

---

audio channel2 volume up

Increase the volume on channel 2

---

audio channel2 volume down

Decrease the volume on channel 2

NAME

camera focus

SYNOPSIS

camera <1-8> focus { { near [<speed>] | far [<speed>] } | stop }

camera <1-8> focus mode { get | auto | manual }

DESCRIPTION

Method used to focus a camera

OPTIONS

near	Move a camera focus near (with optional speed)
far	Move a camera focus far (with optional speed)
stop	Stop camera focus near/far change
mode	Get the current mode or set the it to auto or manual
speed	Optional integer from 1-8 that represents the speed

EXAMPLES

camera 3 focus near

Focuses camera 3 near at the default speed

---

camera 1 focus far 8

Focuses camera 1 far at a speed of 8

---

camera 2 focus stop

Stops focus movement of camera 2

---

camera 3 focus mode get

Gets the focus mode of camera 3

NAME

camera home

SYNOPSIS

camera <1-8> home

DESCRIPTION

Method used to move a camera to its home position

EXAMPLES

camera 2 home

Move camera 2 to home position

NAME

camera pan

SYNOPSIS

camera <1-8> pan { left [<speed>] | right [<speed>] | stop }

DESCRIPTION

Method used to pan a camera

OPTIONS

left	Move a camera left
right	Move a camera right
stop	Stop a camera movement
speed	Optional integer from 1-24 that represents the speed (Default: 12)

EXAMPLES

camera 1 pan left

Pans camera 1 left at the default speed

---

camera 2 pan right 20

Pans camera 2 to the right at a speed of 20

---

camera 3 pan stop

Stops the pan movement of camera 3

NAME

camera preset

SYNOPSIS

camera <1-8> preset recall <1-16>

camera <1-8> preset store <1-16> [tri-sync <1-24>] [save-ccu]

DESCRIPTION

Method used to recall and store camera presets

OPTIONS

recall	Recall preset
store	Store preset
tri-sync	Tri-Sync recall speed
save-ccu	Saves CCU information as well in the preset

EXAMPLES

camera 2 preset recall 3

Move camera 2 to preset 3

---

camera 2 preset store 1

Store current camera 2 position as preset 1

---

camera 1 preset store 2 tri-sync 10 save-ccu

Store current camera 1 position and CCU settings as preset 2, will recall using tri-sync at speed 10

---

camera 4 preset store 4 tri-sync 15

Store current camera 4 position as preset 4, will recall using tri-sync at speed 15

NAME

camera select

SYNOPSIS

camera <ID> select

DESCRIPTION

Method used to select the camera you want to control

OPTIONS

ID	camera ID

EXAMPLES

camera 2 select

select camera 2

NAME

camera standby

SYNOPSIS

camera <1-8> standby { on | off | toggle }

DESCRIPTION

Method used to put the camera in and out of standby

OPTIONS

on	put the camera into standby mode
off	put the camera out of standby mode
toggle	switches the standby mode state

EXAMPLES

camera 3 standby on

Puts camera 3 into standby

---

camera 1 standby off

Takes camera 1 out of standby

---

camera 2 standby toggle

Causes camera 2 to change standby state

NAME

camera tilt

SYNOPSIS

camera <1-8> tilt { up [<speed>] | down [<speed>] | stop }

DESCRIPTION

Method used to tilt a camera

OPTIONS

up	Move a camera up
down	Move a camera down
stop	Stop a camera movement
speed	Optional integer from 1-20 that represents the speed (Default: 10)

EXAMPLES

camera 1 tilt up

Tilts camera 1 up at the default speed

---

camera 2 tilt down 20

Tilts camera 2 down at a speed of 20

---

camera 3 tilt stop

Stops the tilt movement of camera 3

NAME

camera zoom

SYNOPSIS

camera <1-8> zoom { in [<speed>] | out [<speed>] | stop }

DESCRIPTION

Method used to zoom a camera

OPTIONS

in	Zoom in
out	Zoom out
stop	Stop the camera movement
speed	Optional integer from 1-7 for designating speed (Default: 3)

EXAMPLES

camera 2 zoom in

Zooms camera 2 in at the default speed

---

camera 1 zoom out 7

Zooms camera 1 out at a speed of 7

---

camera 3 zoom stop

Stops zoom movement of camera 3

NAME

device

SYNOPSIS

device { get | set <host_name> | reset | dump }

DESCRIPTION

Method used to control the selected device

OPTIONS

get	Return the selected device name and IP
set	Select a device
reset	Clear the selected device
dump	Show all devices
host_name	Device name or IP address

EXAMPLES

device get

Shows the current selected device

---

device set 10.0.0.1

Sets the current device to the device at 10.0.0.1, if it exists

---

device reset

Sets the current device to null

---

device dump

Shows the user label and host name for each device in the directory

NAME

exit

SYNOPSIS

exit

DESCRIPTION

Ends the current API command session. If the session is over telnet, the session is ended and the socket is closed. If the session is over serial, a new session is started.

NAME

graphics enable

SYNOPSIS

graphics <channel> enable <layer> <action>

OPTIONS

<channel>

program	Program output
preview	Preview output

<layer>

layer1	First graphics layer
layer2	Second graphics layer (not available in dual-bus mode)

<action>

get	Display current enabled state for a layer
on	Enable layer
off	Disable layer
toggle	Toggle the layer's current enabled state

DESCRIPTION

Method used to enable or disable a graphics layer on a video bus.

EXAMPLES

graphics program enable layer1 off

Remove the layer1 graphic from the program output

---

graphics preview enable layer2 toggle

Layer2 on the preview output is enabled if currently disabled, or disabled if currently enabled

NAME

graphics source

SYNOPSIS

graphics <channel> source <layer> { get | set <select> }

DESCRIPTION

Method used to enable or disable a graphics layer on a video bus.

OPTIONS

<channel>:

program	Program output { input7 | input8 | image_filename }
preview	Preview output { input7 | input8 | image_filename }

<layer>

layer1	First graphics layer
layer2	Second graphics layer (not available in dual-bus mode)

<select>

input7	Motion graphics video on input7
input8	Motion graphics video on input8
image_filename	Uploaded static graphics filename

EXAMPLES

graphics preview source layer1 get

source: input7

Get the current setting of the source for preview layer1, which is video input7

---

graphics preview source layer2 set foo.png

Set source for layer2 on the preview output to foo.png

NAME

help

SYNOPSIS

help

DESCRIPTION

Display an overview of the command line syntax

NAME

history

SYNOPSIS

history [limit]

DESCRIPTION

Since many of the programs read user input a line at a time, the command history is used to keep track of these lines and also recall historic information

HISTORY NAVIGATION

The command history can be navigated using the up and down arrow keys. The up arrow with move up a single entry in the command history while the down arrow moves down in the command history.

HISTORY EXPANSION

The command history supports the expansion functionality from which previous commands can be recalled from within a single session. History expansion is performed immediately after a complete line is read.

Listed below are examples of history expansion:

* !! Subsitute the the last command line.

* !N Substitute the Nth command line (absolute as per ’history’ command)

* !-N Substitute the command line entered N lines before (relative)

EXAMPLES

history

Displays the current command buffer

history 5

Sets the history command buffer to remember the last 5 unique entries

NAME

info all get

SYNOPSIS

info all get

DESCRIPTION

Gets all the data from info

OPTIONS

get	Get all the data from info

EXAMPLES

info all get

Product	GenericTHING
Company Name	Vaddio
Room Name	Rick’s cubicle
Room Phone Number	(248) 434-5508
Help Phone Number	(763) 971-4428

NAME

info product get

SYNOPSIS

info product get

DESCRIPTION

Gets the product name

OPTIONS

get	Get the product name

EXAMPLES

info product get

Product	GenericTHING

NAME

info roomlabels get

SYNOPSIS

info roomlabels get

DESCRIPTION

Gets all the user set room lables

OPTIONS

get	Get the user set room labels

EXAMPLES

info roomlabels get

Company Name	Vaddio
Room Name	Rick’s cubicle
Room Phone Number	(248) 434-5508
Help Phone Number	(763) 971-4428

NAME

monitor buttons

SYNOPSIS

monitor buttons

DESCRIPTION

Turns on input button monitoring. (Use Ctrl-C to exit).

EXAMPLES

monitor buttons

(Then when button 1 on bus A is pressed, output is A1 pressed.)

NAME

network ping

SYNOPSIS

network ping [count <count>] [size <size>] <destination-ip>

DESCRIPTION

Use the ICMP protocol's mandatory ECHO_REQUEST datagram to elicit an ICMP ECHO_RESPONSE from a host or gateway. ECHO_REQUEST datagrams have an IP and ICMP header, followed by a struct timeval and then an arbitrary number of pad bytes used to fill out the packet.

OPTIONS

count Stop after sending count ECHO_REQUEST packets. With deadline option, ping waits for count ECHO_REPLY packets, until the timeout expires. The default is 5.

destination The destination IP address where the ECHO_REQUESTS are sent size The data size of the ICMP packet to send. The default is 56 bytes

EXAMPLES

network ping 192.168.1.1

Attempt to send 5 ICMP ECHO_REQUESTs with data size 56 to the host at 192.168.1.1

---

network ping count 10 size 100 192.168.1.1

Attempt to send 10 ICMP ECHO_REQUESTs with data size of 100 to the host at 192.168.1.1

NAME

network settings

SYNOPSIS

network settings { get }

DESCRIPTION

Method used to get the current network settings of the device

OPTIONS

get	Get the current network settings for the machine

EXAMPLES

network settings get

MAC Address:	00:04:a3:85:0a:ee
IP Address:	10.10.8.116
Netmask:	255.255.255.0
Gateway:	10.10.8.100

Returns the current network settings for mac address, ip address, netmask, and gateway

NAME

switch duration

SYNOPSIS

switch duration { get | set <value> }

switch { program | preview } duration { get | set <value> }

DESCRIPTION

Method used to get or set the switch transition duration

OPTIONS

get	Get the switch transition duration
set	Set the switch transition duration
value	Transition duration in milliseconds

EXAMPLES

switch duration get

In A/B mode, get the switch transition duration in milliseconds

---

switch duration set 100

In A/B mode, set the switch transition duration to 100 milliseconds

---

switch preview duration get

In dual bus mode, get the switch transition duration of the preview bus in milliseconds

---

switch program duration set 200

In dual bus mode, set the switch transition duration of the program bus to 200 milliseconds

NAME

switch effect

SYNOPSIS

switch effect { get | set <A/B effect> }

switch { program | preview } effect { get | set <Dual Bus effect> }

DESCRIPTION

Method used to get or set the switch transition effect

OPTIONS

get	Get the switch transition effect
set	Set the switch transition effect
<A/B effect>	
cut	Cut
dissolve	Dissolve
dip	Dip to Black
wipe_right	Wipe Right
wipe_left	Wipe Left
wipe_down	Wipe Down
wipe_up	Wipe Up
wipe_ULC	Wipe Upper Left Corner
wipe_URC	Wipe Upper Right Corner
wipe_LLC	Wipe Lower Left Corner
wipe_LRC	Wipe Lower Right Corner
wipe_center	Wipe Center
<Dual Bus effect>	cut Cut
dissolve	Dissolve
dip	Dip to Black

EXAMPLES

switch effect get

In A/B mode, get the switch transition effect

---

switch effect set wipe_right

In A/B mode, set the switch transition effect to Wipe Right

---

switch program effect get

In dual bus mode, get the switch transition effect of the program bus

---

switch preview effect set cut

In dual bus mode, set the switch transition effect of the preview bus to Cut

NAME

switch mode

SYNOPSIS

switch mode { get | a_b | dual_bus }

DESCRIPTION

Method used to set the switching mode

OPTIONS

a_b Swap program and preview outputs on a take

dual Swap selected inputs on each bus individually

EXAMPLES

switch mode a_b

Set switching mode to A/B

NAME

switch take

SYNOPSIS

switch take

switch { program | preview } take

DESCRIPTION

Method used to perform a video take

EXAMPLES

switch take

In A/B mode, a take with no arguments performs a swap between the program and preview busses

---

switch program take

In dual bus mode, swap the selected inputs on the program bus

---

switch preview take

In dual bus mode, swap the selected inputs on the preview bus

NAME

system factory-reset

SYNOPSIS

system factory-reset { get | on | off }

DESCRIPTION

Method used to get or set the factory reset status. An attempt will be made first to use the middleware.

OPTIONS

get	Get the current factory reset status
on	Enable factory reset on reboot
off	Disable factory reset on reboot

EXAMPLES

system factory-reset get

factory-reset (software):

off

factory-reset (hardware):

off

Returns the factory reset status

---

system factory-reset on

factory-reset (software):

on

factory-reset (hardware):

off

Enables factory reset upon reboot

NAME

system reboot

SYNOPSIS

system reboot [<seconds>]

DESCRIPTION

Method used to reboot system

OPTIONS

seconds	The number of seconds to delay the reboot

EXAMPLES

reboot

Reboot system immediately

reboot 30

Reboot the system in 30 seconds

NAME

system standby

SYNOPSIS

system standby { get | on | off | toggle }

DESCRIPTION

Method used to put the system in and out of standby

OPTIONS

get	get the state of the system standby mode
on	put the system into standby mode
off	put the system out of standby mode
toggle	switches the standby mode state

EXAMPLES

system standby get

Gets the system standby state

system standby on

Activates the system standby

system standby off

Takes the system out of standby

system standby toggle

Cameras in standby leave it. Cameras out of standby go into it.

NAME

version

SYNOPSIS

version

DESCRIPTION

Display an overview of the command line syntax

EXAMPLES

version

Returns the current software version

NAME

video mute

SYNOPSIS

video <channel> mute { get | on | off | toggle }

DESCRIPTION

Method used to get or set video mute

OPTIONS

<channel>

local	Get/set/toggle the local HDMI output mute state
input1	Get/set/toggle mute state of the switcher’s input1
input2	Get/set/toggle mute state of the switcher’s input2
input3	Get/set/toggle mute state of the switcher’s input3
input4	Get/set/toggle mute state of the switcher’s input4
input5	Get/set/toggle mute state of the switcher’s input5
input6	Get/set/toggle mute state of the switcher’s input6
input7	Get/set/toggle mute state of the switcher’s input7
input8	Get/set/toggle mute state of the switcher’s input8
program	Get/set/toggle mute state of the switcher’s program output
preview	Get/set/toggle mute state of the switcher’s preview output multiviewer Get/set/toggle mute state of the switcher’s multiviewer output
usb_stream	Get/set/toggle mute state of the switcher’s usb_stream output
ip_stream	Get/set/toggle mute state of the switcher’s ip_stream output
get	Get the current video mute

on	Set video mute to on
off	Set video mute to off
toggle	Toggle the video mute

EXAMPLES

video local mute get

Get current local HDMI video output mute setting

---

video input2 mute toggle

Toggles the current input2 video mute setting

---

video program mute on

Mutes program output video

---

video ip_stream mute off

Unmutes ip_stream output video

NAME

video pip

SYNOPSIS

video preview pip { get | on | off | toggle | source <select> | dual_source <half>

video program pip { get | on | off | toggle | source <select> | dual_source <half>

DESCRIPTION

Method used to set video output PIP settings.

OPTIONS

get	Prints the current PIP source
on	Enables PIP
off	Disables PIP
toggle	Toggles PIP enable
source	Configures the inset PIP image
select	Video input { input1 | input2 | … | input8 }
quadrant	PIP quadrant {upper_left | … | lower_right }
	half PIP half {upper_half | lower_half | left_half | right_half }
pip_layout	Pip Layout { upper_right | … | left_right | top_bottom | quad }

EXAMPLES

video program pip off

Disables program output PIP

---

video preview pip source input2

Sets the preview PIP source to input 2

---

video program pip get

source: none

Gets the current program output PIP source

---

video preview pip layout top_bottom

Sets the preview PIP layout to split screen (stacked)

---

video preview pip dual_source left_half input7

Sets the preview PIP left half source to input 7 ----

video preview pip quad_source upper_right input7

Sets the preview PIP upper right quadrant source to input 7

NAME

video source

SYNOPSIS

video <output> source <select>

DESCRIPTION

Method used to get or set the video program output source

OPTIONS

<output>:

program	Program output { input1 | input2 | input3 | input4 | input5 | input6 | input7 | input8 }
preview	Preview output { input1 | input2 | input3 | input4 | input5 | input6 | input7 | input8 }
usb_stream	USB Stream output { program | preview | multiviewer }
ip_stream	IP Stream output { program | preview | multiviewer }

EXAMPLES

video program source get

source: input 1

Gets the current program output source

---

video preview source set input2

Sets the preview output source to input2

---

video usb_stream source set program

Sets the USB stream output source to program