



How to use the MXNET API

Kevin Wang

Kwang@avproglobal.com

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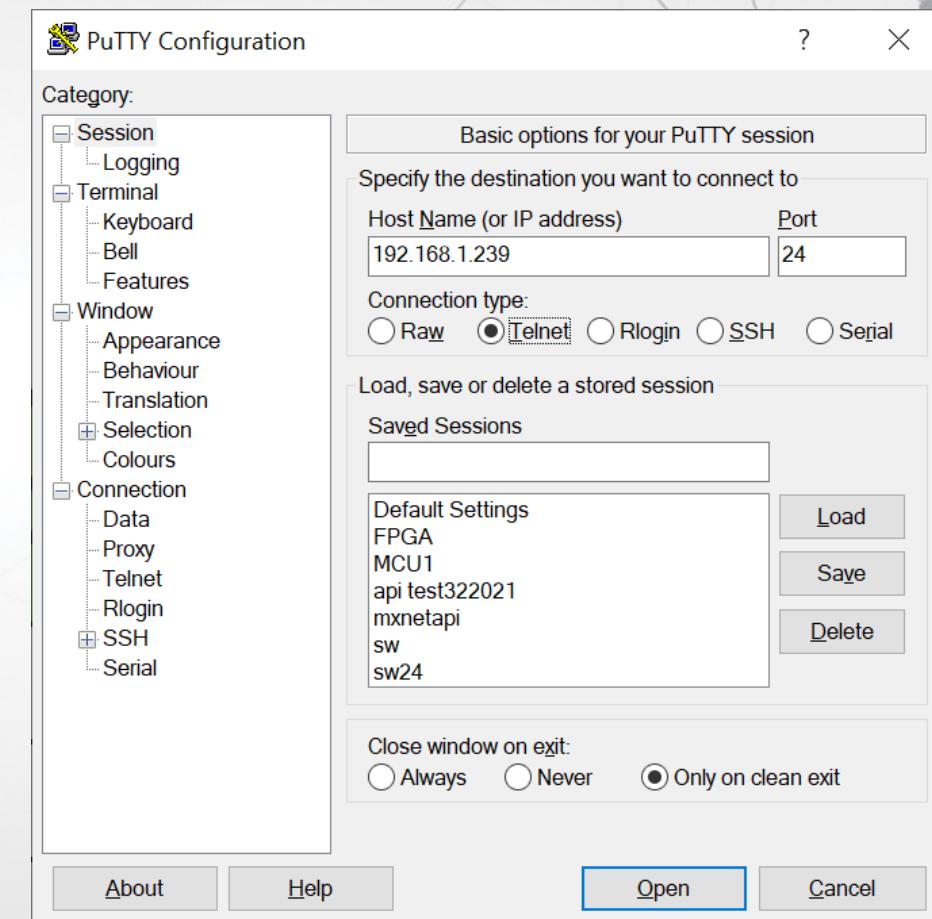
How to Connect MXNET Encoders, Decoders and Control Box (CBOX) to Network Switch



- The MXNet Control Box includes a built-in non-multicast standard data switch with seven ethernet LAN ports. Looking from the rear of the unit and starting from the left side, you will see the “PORT 1 MENTOR – LAN / CONTROL” port which is used for connecting to a LAN (DHCP default), or control PC/Mac/Linux desktop or laptop.
- The User Interface is WEB based, so you can use any modern web browser to access the MXNet MENTOR configuration app.
- PORTS 2-7 are extensions to “MENTOR PORT 1” and can be used for connecting other non-multicast devices including control system processors, DSP’s, IP control satellite boxes, etc.
- The “MXnet (PoE) – AV NETWORK” port (located on the far right side of the CBOX) is connected directly to any port on the MXnet network switch (SW10, SW24, and SW48) or other HIGH DEMAND multicast capable network switch.
- NOTE: Never connect a multicast enabled network switch directly to a normal data LAN without first setting that port to filter
- Finally, connect the MXnet Encoders/Transmitters and Decoders/Receivers to any ports on the network switch which share the same VLAN1.

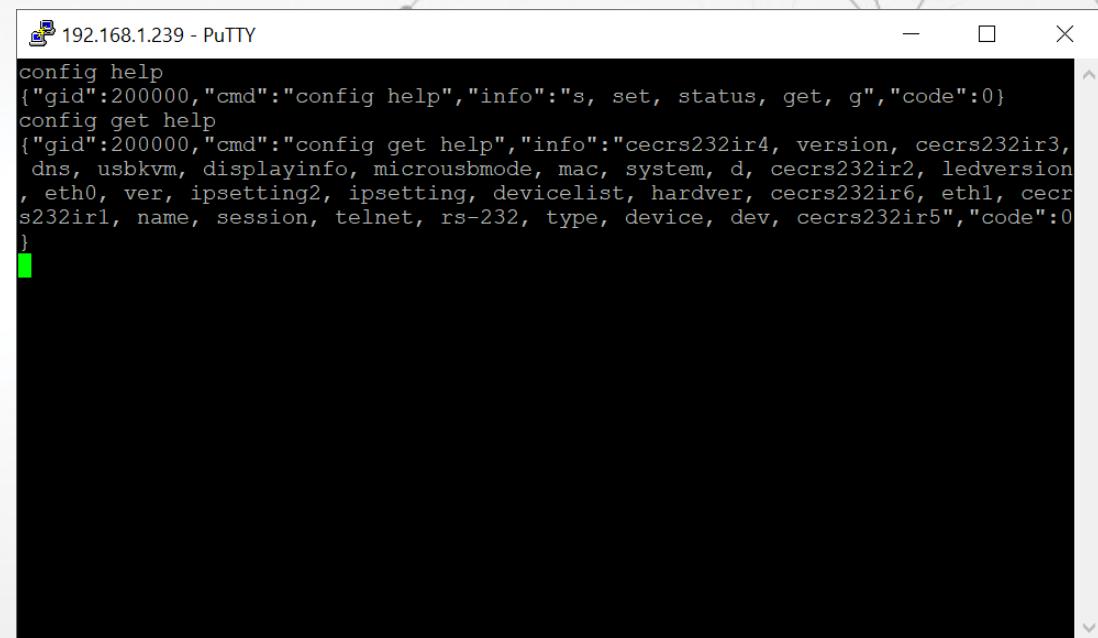
Telnet to CBOX

- Open a Terminal Emulator Software, for example, PuTTY
- Default IP of CBOX LAN 2 is 192.168.1.239/24
- Telnet port is 24



MXNET API Command Example

- API Command
 - Config help
- API Command Reply
 - {"gid":200000,"cmd":"config help","info":"s, set, status, get, g","code":0}
 - “code”:0 means the command was successfully executed

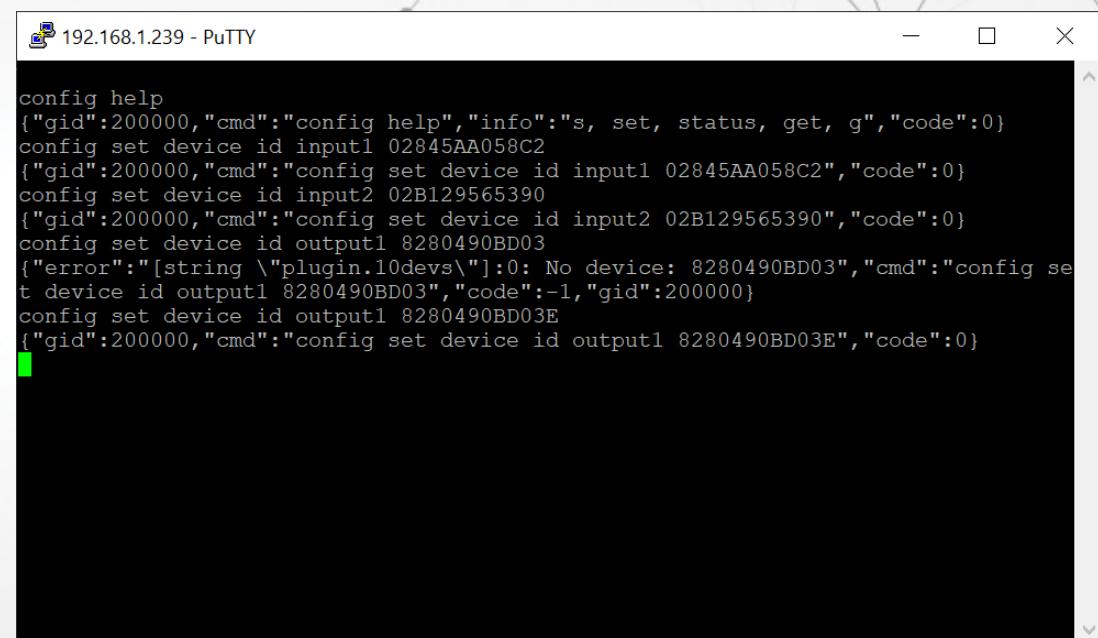


The screenshot shows a PuTTY terminal window titled "192.168.1.239 - PuTTY". The window displays two API command examples. The first command is "config help", which returns a JSON object with "gid":200000, "cmd": "config help", "info": "s, set, status, get, g", and "code": 0. The second command is "config get help", which returns a JSON object with "gid":200000, "cmd": "config get help", "info": "cecrs232ir4, version, cecrs232ir3, dns, usbkvm, displayinfo, microusbmode, mac, system, d, cecrs232ir2, ledversion, eth0, ver, ipsetting2, ipsetting, devicelist, hardver, cecrs232ir6, eth1, cecrs232ir1, name, session, telnet, rs-232, type, device, dev, cecrs232ir5", and "code": 0.

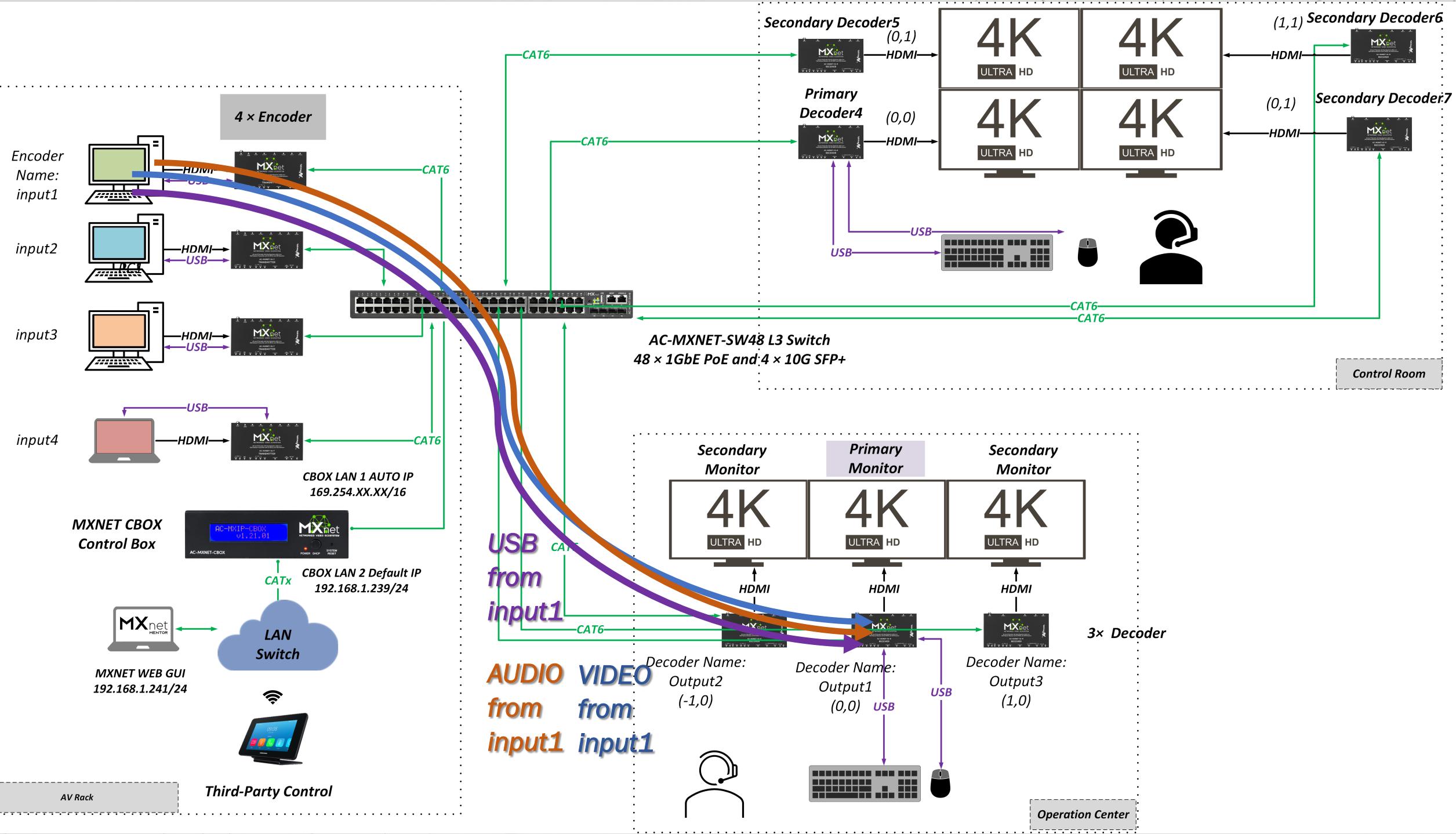
```
config help
{"gid":200000,"cmd":"config help","info":"s, set, status, get, g","code":0}
config get help
{"gid":200000,"cmd":"config get help","info":"cecrs232ir4, version, cecrs232ir3, dns, usbkvm, displayinfo, microusbmode, mac, system, d, cecrs232ir2, ledversion, eth0, ver, ipsetting2, ipsetting, devicelist, hardver, cecrs232ir6, eth1, cecrs232ir1, name, session, telnet, rs-232, type, device, dev, cecrs232ir5","code":0}
```

Modify Encoder/Decoder Name

- API Command
 - config set device id input1 02845AA058C2
- API Reply
 - {"gid":200000,"cmd":"config set device id input1 02845AA058C2","code":0}
 - {"error":"[string \\\"plugin.10devs\\\"]:0: No device: 8280490BD03","cmd":"config set device id output1 8280490BD03","code":-1,"gid":200000}
 - "code":-1 means the command failed.

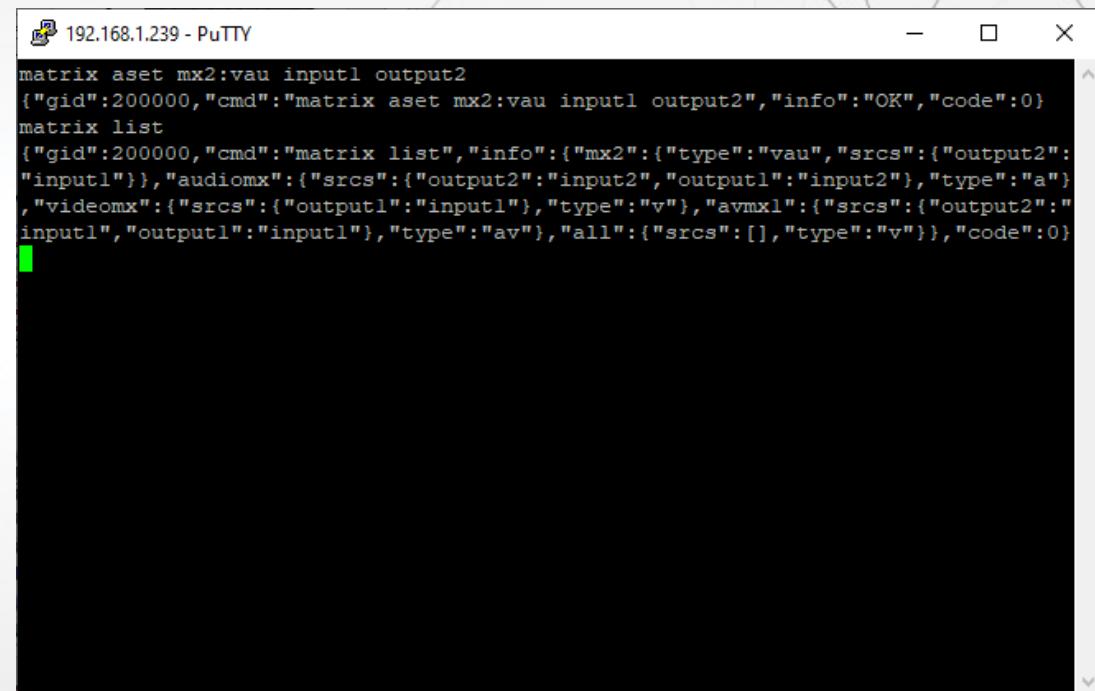


```
config help
{"gid":200000,"cmd":"config help","info":"s, set, status, get, g","code":0}
config set device id input1 02845AA058C2
{"gid":200000,"cmd":"config set device id input1 02845AA058C2","code":0}
config set device id input2 02B129565390
{"gid":200000,"cmd":"config set device id input2 02B129565390","code":0}
config set device id output1 8280490BD03
{"error":"[string \\\"plugin.10devs\\\"]:0: No device: 8280490BD03","cmd":"config set device id output1 8280490BD03","code":-1,"gid":200000}
config set device id output1 8280490BD03E
{"gid":200000,"cmd":"config set device id output1 8280490BD03E","code":0}
```



Switch signal from an encoder to a decoder

- API command format
 - matrix asset
[[name]:[video/audio/usb/infrared/serial /gpio/all]] {tx1 rx1 rx2 .. rxn[, tx2 rx...]}
- API command
 - matrix asset mx2:vau input1 output2
 - Description
 - Matrix name:mx2
 - vau means " video, audio, usb"
 - video="v", usb="u", audio="a", infrared="r", serial="s", gpio="p", all="z"
 - Encoder name:input1
 - Decoder name:output2
- API reply
 - {"gid":200000,"cmd":"matrix asset mx2:vau input1 output2","info":"OK","code":0}

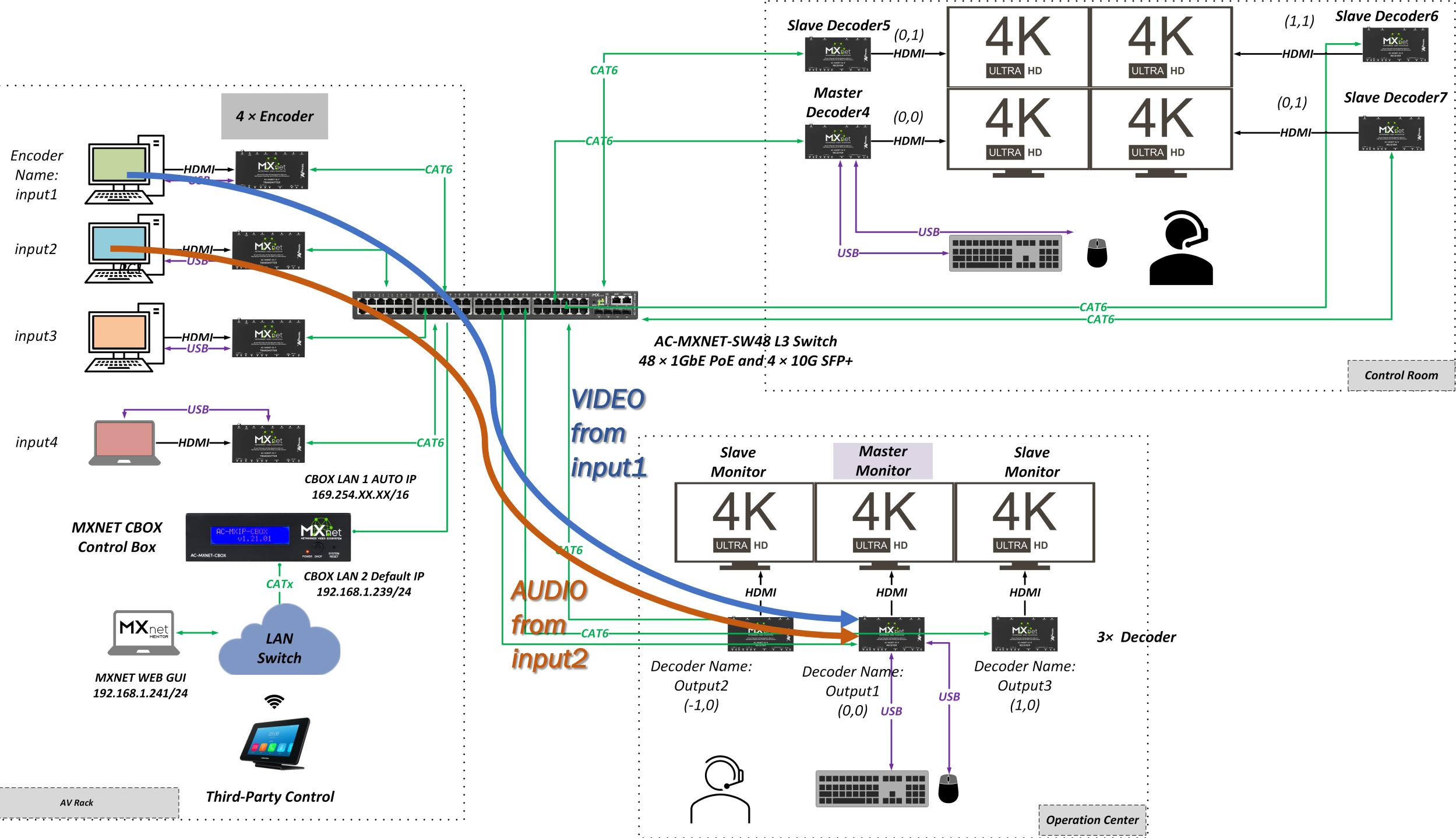


The screenshot shows a PuTTY terminal window titled "192.168.1.239 - PuTTY". The user has entered the following commands:

```
matrix asset mx2:vau input1 output2
{"gid":200000,"cmd":"matrix asset mx2:vau input1 output2","info":"OK","code":0}
matrix list
```

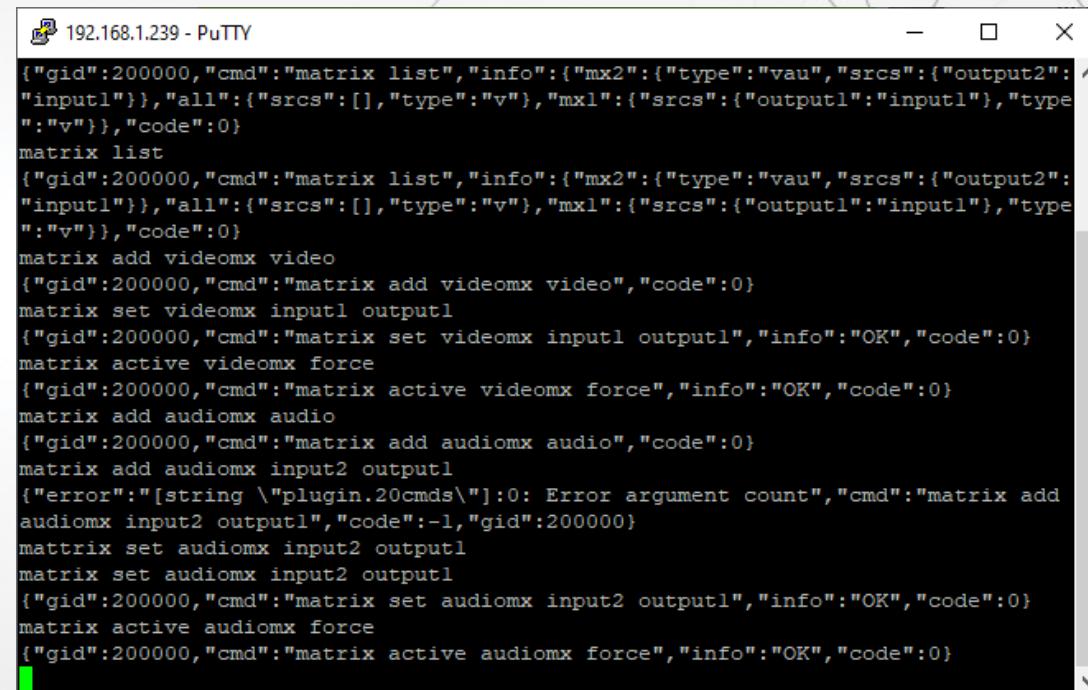
The response to the "matrix list" command is:

```
{"gid":200000,"cmd":"matrix list","info":{"mx2":{"type":"vau","srcs":{"output2":"input1"},"audiomx":{"srcs":{"output2":"input1","output1":"input2"}, "type":"a"}, "videomx":{"srcs":{"output1":"input1"}, "type":"v"}, "avmx1":{"srcs":{"output2":"input1", "output1":"input1"}, "type":"av"}, "all":{"srcs":[], "type":"v"}}, "code":0}
```



Independent Switching

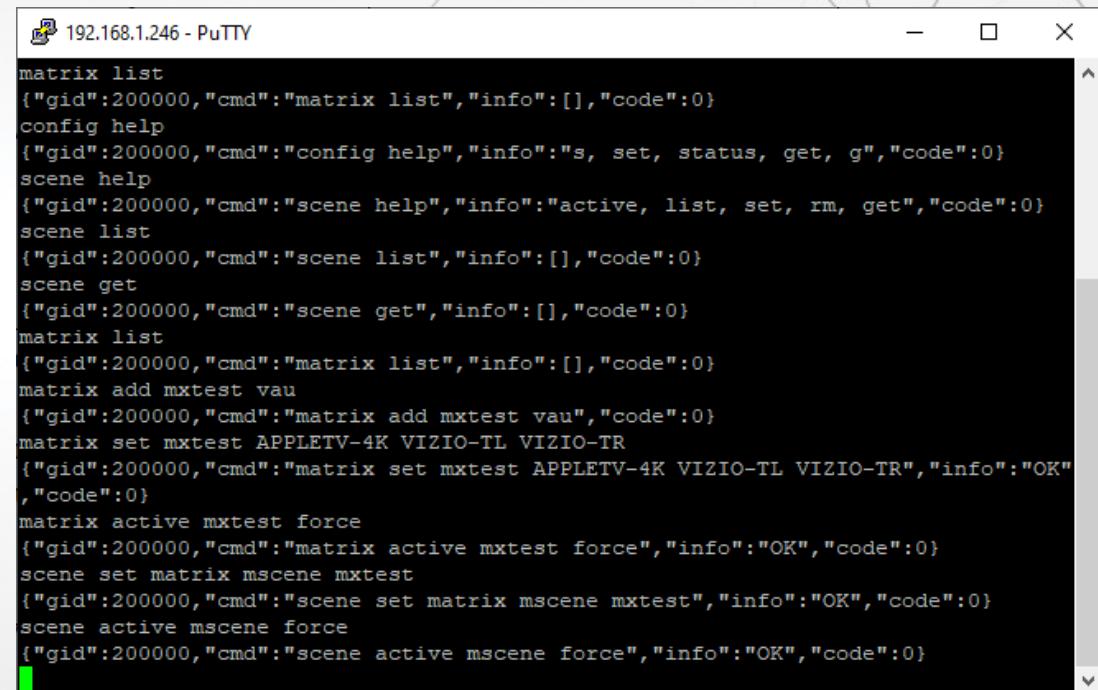
- Send input1 video and input2 audio to output1
- API commands
 - matrix add videomx video
 - {"gid":200000,"cmd":"matrix add videomx video","code":0}
 - matrix set videomx input1 output1
 - {"gid":200000,"cmd":"matrix set videomx input1 output1","info":"OK","code":0}
 - matrix active videomx force
 - {"gid":200000,"cmd":"matrix active videomx force","info":"OK","code":0}
 - matrix add audiomx audio
 - {"gid":200000,"cmd":"matrix add audiomx audio","code":0}
 - matrix set audiomx input2 output1
 - {"gid":200000,"cmd":"matrix set audiomx input2 output1","info":"OK","code":0}
 - matrix active audiomx force
 - {"gid":200000,"cmd":"matrix active audiomx force","info":"OK","code":0}



```
192.168.1.239 - PuTTY
("gid":200000,"cmd":"matrix list","info":{"mx2":{"type":"vau","srcs":{"output2":"input1"}}, "all":{"srcs":[],"type":"v"}, "mx1":{"srcs":{"output1":"input1"}, "type":"v"}}, "code":0)
matrix list
("gid":200000,"cmd":"matrix list","info":{"mx2":{"type":"vau","srcs":{"output2":"input1"}}, "all":{"srcs":[],"type":"v"}, "mx1":{"srcs":{"output1":"input1"}, "type":"v"}}, "code":0)
matrix add videomx video
("gid":200000,"cmd":"matrix add videomx video", "code":0)
matrix set videomx input1 output1
("gid":200000,"cmd":"matrix set videomx input1 output1", "info":"OK", "code":0)
matrix active videomx force
("gid":200000,"cmd":"matrix active videomx force", "info":"OK", "code":0)
matrix add audiomx audio
("gid":200000,"cmd":"matrix add audiomx audio", "code":0)
matrix add audiomx input2 output1
("error":"[string \\\"plugin.20cmds\\\"]:0: Error argument count", "cmd":"matrix add audiomx input2 output1", "code":-1, "gid":200000)
matrix set audiomx input2 output1
matrix set audiomx input2 output1
("gid":200000,"cmd":"matrix set audiomx input2 output1", "info":"OK", "code":0)
matrix active audiomx force
("gid":200000,"cmd":"matrix active audiomx force", "info":"OK", "code":0)
```

Matrix Scene

- Create a matrix
 - matrix add mxtest vau
 - {"gid":200000,"cmd":"matrix add mxtest vau","code":0}
 - mxtest: matrix name
 - Vau means video, audio,USB
- Active the matrix
 - matrix set mxtest APPLETV-4K VIZIO-TL VIZIO-TR
 - APPLETV-4K: encoder name
 - VIZIO-TL and VIZIO-TR: decoder names
 - {"gid":200000,"cmd":"matrix set mxtest APPLETV-4K VIZIO-TL VIZIO-TR","info":"OK","code":0}
 - matrix active mxtest force
 - {"gid":200000,"cmd":"matrix active mxtest force","info":"OK","code":0}
- Create a scene
 - scene set matrix mscene mxtest
 - mscene: scene name
 - {"gid":200000,"cmd":"scene set matrix mscene mxtest","info":"OK","code":0}
- Recall(active) the scene
 - scene active mscene force
 - {"gid":200000,"cmd":"scene active mscene force","info":"OK","code":0}



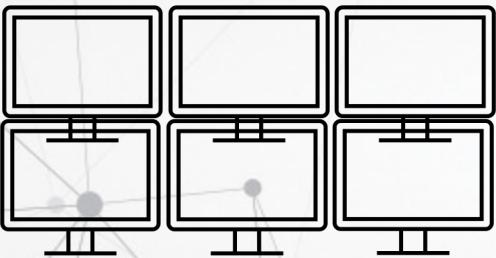
```
192.168.1.246 - PuTTY
matrix list
{"gid":200000,"cmd":"matrix list","info":[],"code":0}
config help
{"gid":200000,"cmd":"config help","info":"s, set, status, get, g","code":0}
scene help
{"gid":200000,"cmd":"scene help","info":"active, list, set, rm, get","code":0}
scene list
{"gid":200000,"cmd":"scene list","info":[],"code":0}
scene get
{"gid":200000,"cmd":"scene get","info":[],"code":0}
matrix list
{"gid":200000,"cmd":"matrix list","info":[],"code":0}
matrix add mxtest vau
{"gid":200000,"cmd":"matrix add mxtest vau","code":0}
matrix set mxtest APPLETV-4K VIZIO-TL VIZIO-TR
{"gid":200000,"cmd":"matrix set mxtest APPLETV-4K VIZIO-TL VIZIO-TR","info":"OK","code":0}
matrix active mxtest force
{"gid":200000,"cmd":"matrix active mxtest force","info":"OK","code":0}
scene set matrix mscene mxtest
{"gid":200000,"cmd":"scene set matrix mscene mxtest","info":"OK","code":0}
scene active mscene force
{"gid":200000,"cmd":"scene active mscene force","info":"OK","code":0}
```

IR over IP (Central Control Mode)


```
192.168.1.246 - PuTTY
config set device ir 0000 006D 0022 0002 0157 00AC 0015 0016 0015 0015 0016 0015 0041
0015 0016 0015 0015 0016 0015 0016 0015 0016 0015 0041 0015 0041 0015 0016 0016
0015 0041 0015 0041 0015 0041 0015 0041 0015 0041 0015 0041 0015 0016 0015 0041
0015 0016 0015 0016 0015 0041 0015 0016 0015 0016 0015 0016 0015 0041 0015 0016
0015 0041 0015 0041 0015 0016 0041 0015 0041 0015 0041 0015 0041 0015 0689 0157 0056 0015 0E94
VIZIO-BR
{"gid":200000,"cmd":"config set device ir 0000 006D 0022 0002 0157 00AC 0015 001
6 0015 0016 0015 0041 0015 0016 0015 0016 0015 0016 0015 0016 0015 0016 0015 004
1 0015 0041 0015 0016 0015 0041 0015 0041 0015 0041 0015 0041 0015 0041 0015 004
1 0015 0016 0015 0041 0015 0016 0015 0016 0015 0041 0015 0016 0015 0016 0015 001
6 0015 0041 0015 0016 0015 0041 0015 0041 0015 0041 0015 0041 0015 0041 0015 068
9 0157 0056 0015 0E94 VIZIO-BR","code":0}
config set device ir 0000 006D 0022 0002 0157 00AC 0015 0016 0015 0015 0016 0015 0041
0015 0016 0015 0015 0016 0015 0016 0015 0016 0015 0041 0015 0041 0015 0016 0016
0015 0041 0015 0041 0015 0016 0041 0015 0041 0015 0041 0015 0041 0015 0041 0015 001
6 0015 0041 0015 0016 0015 0041 0015 0016 0015 0016 0015 0041 0015 0016 0015 0041
0015 0016 0015 0041 0015 0016 0041 0015 0041 0015 0041 0015 0041 0015 0689 0157 0056 0015 0E94
VIZIO-BR
{"gid":200000,"cmd":"config set device ir 0000 006D 0022 0002 0157 00AC 0015 001
6 0015 0016 0015 0041 0015 0016 0015 0016 0015 0016 0015 0016 0015 0016 0015 004
1 0015 0041 0015 0016 0015 0041 0015 0041 0015 0041 0015 0041 0015 0041 0015 004
1 0015 0016 0015 0041 0015 0016 0015 0016 0015 0041 0015 0016 0015 0016 0015 001
6 0015 0041 0015 0016 0015 0041 0015 0041 0015 0041 0015 0041 0015 0041 0015 068
9 0157 0056 0015 0E94 VIZIO-BR","code":0}
```

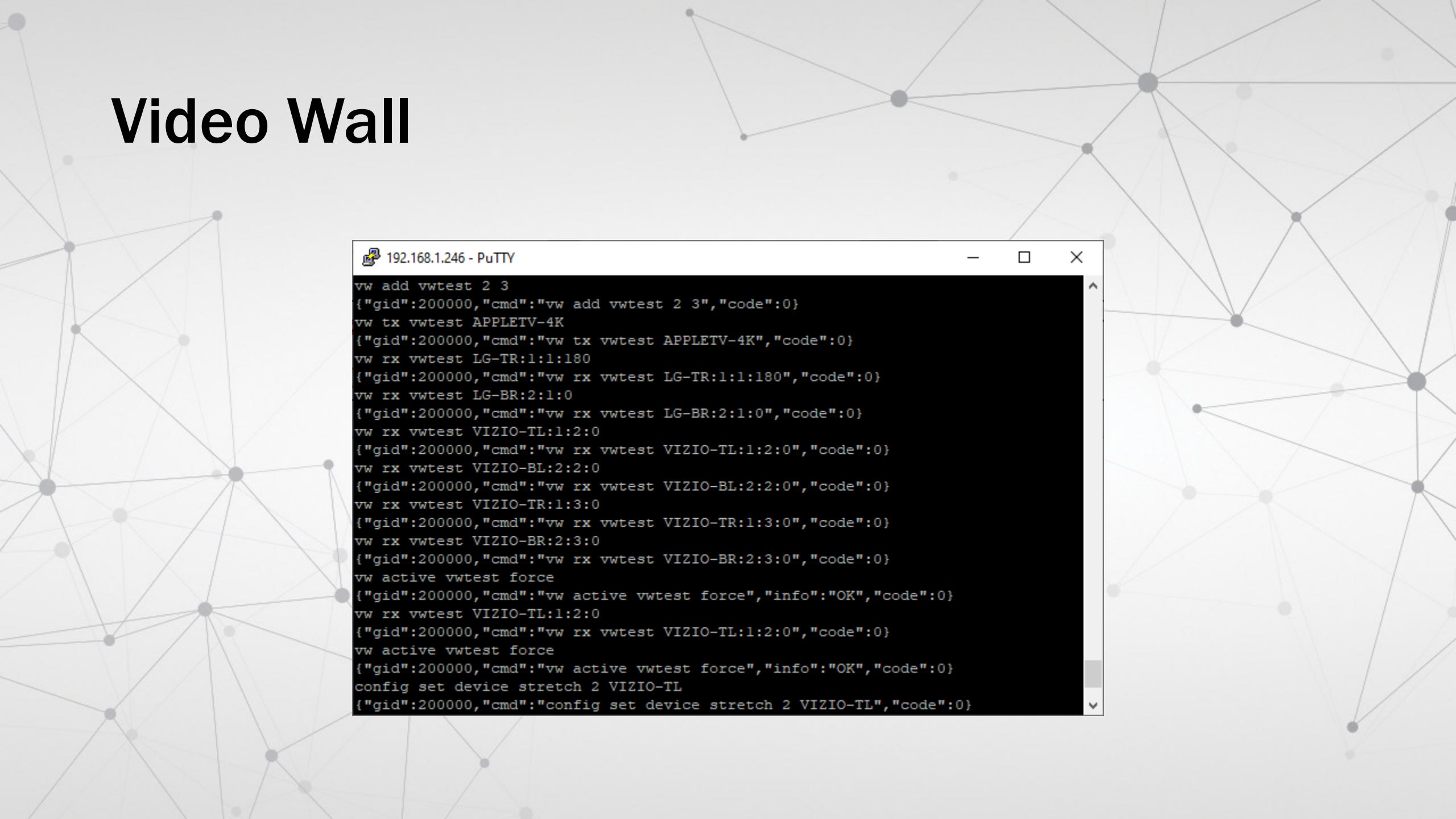
IR Pronto Codes for VIZIO Television

Video Wall Setting Commands



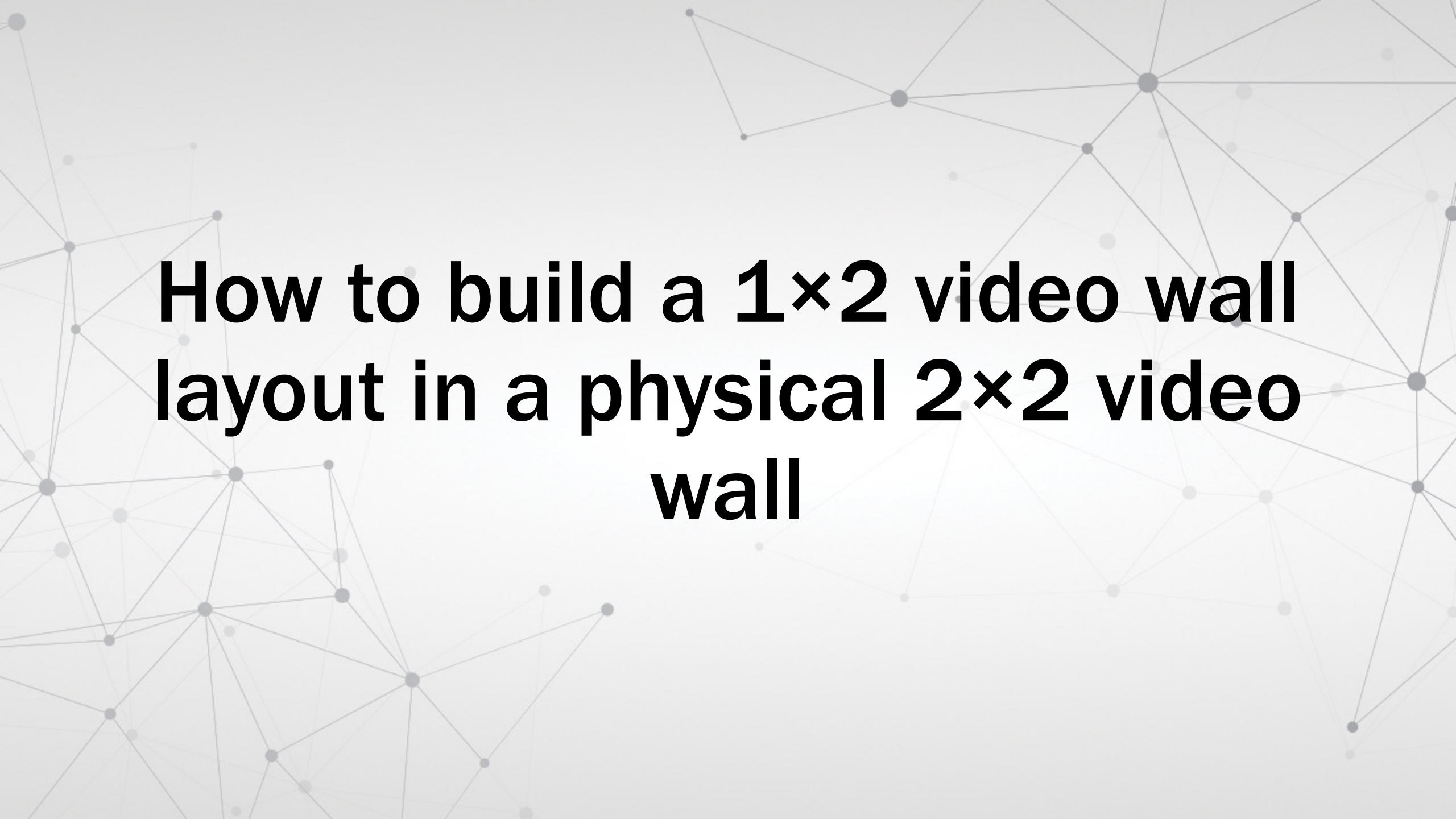
- Video Wall Layout: 3×2 , three columns, two rows
- Video Wall Name: vwtest
- Video Wall Input: APPLETV-4K
- Video Wall Outputs: LG-TR, LG-BR, VIZIO-TL, VIZIO-TR, VIZIO-BL, VIZIO-BR

Video Wall



A screenshot of a PuTTY terminal window titled "192.168.1.246 - PuTTY". The terminal displays a series of JSON command-line interactions with a video wall system. The commands involve adding and testing video walls (vw) across various devices (APPLETV-4K, VIZIO-TL, VIZIO-BL, VIZIO-TR, VIZIO-BR) and setting device stretch configurations.

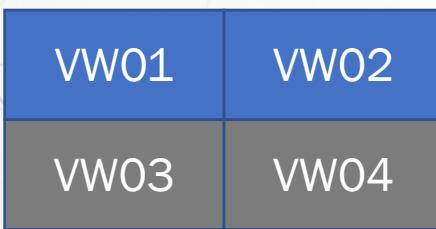
```
vw add vwtest 2 3
{"gid":200000,"cmd":"vw add vwtest 2 3","code":0}
vw tx vwtest APPLETVP-4K
{"gid":200000,"cmd":"vw tx vwtest APPLETVP-4K","code":0}
vw rx vwtest LG-TR:1:1:180
{"gid":200000,"cmd":"vw rx vwtest LG-TR:1:1:180","code":0}
vw rx vwtest LG-BR:2:1:0
{"gid":200000,"cmd":"vw rx vwtest LG-BR:2:1:0","code":0}
vw rx vwtest VIZIO-TL:1:2:0
{"gid":200000,"cmd":"vw rx vwtest VIZIO-TL:1:2:0","code":0}
vw rx vwtest VIZIO-BL:2:2:0
{"gid":200000,"cmd":"vw rx vwtest VIZIO-BL:2:2:0","code":0}
vw rx vwtest VIZIO-TR:1:3:0
{"gid":200000,"cmd":"vw rx vwtest VIZIO-TR:1:3:0","code":0}
vw rx vwtest VIZIO-BR:2:3:0
{"gid":200000,"cmd":"vw rx vwtest VIZIO-BR:2:3:0","code":0}
vw active vwtest force
{"gid":200000,"cmd":"vw active vwtest force","info":"OK","code":0}
vw rx vwtest VIZIO-TL:1:2:0
{"gid":200000,"cmd":"vw rx vwtest VIZIO-TL:1:2:0","code":0}
vw active vwtest force
{"gid":200000,"cmd":"vw active vwtest force","info":"OK","code":0}
config set device stretch 2 VIZIO-TL
{"gid":200000,"cmd":"config set device stretch 2 VIZIO-TL","code":0}
```



How to build a 1×2 video wall layout in a physical 2×2 video wall

1×2 Video Wall Layout

Physical Video Wall: 2×2



Layout: 1×2 Video Wall



Video Wall Layout 1×2 API Commands-1

API Command Format

- vwid layout set {videowall_name} {layout_name}
row:col:tx:rx:vwrows:vwcols:vwrow:vwcol:rotate:stretch:vw:ow:vh:oh
row:col:tx:rx:vwrows:vwcols:vwrow:vwcol:rotate:stretch:vw:ow:vh:oh
...



API Example Description

- videowall_name:COVEMOON
- layout_name:tab
- row: the row position in the Physical Video Wall, in this example, physical video wall is 2×2, the first decoder VW01 start from 1, the row position is 1. The second decoder VW02 is also in the row 1.
- col: the column position in the Physical Video Wall, in this example, physical video wall is 2×2, the first decoder VW01 start from 1, the column position is 1. The column position of the second decoder (RX) VW02 is 2.

Video Wall Layout 1×2 API Commands-2

API Command Format

- vwid layout set {videowall_name} {layout_name}
row:col:tx:rx:vwrows:vwcols:vwrow:vwcol:rotate:s
stretch:vw:ow:vh:oh
row:col:tx:rx:vwrows:vwcols:vwrow:vwcol:rotate:s
stretch:vw:ow:vh:oh ...



API Example Description

- tx:SKY2
- rx: VW01, VW02
- vwrows: total rows, in this example, 1×2 video wall, total rows is 1.
- vwcols: total columns, in this example, 1×2 video wall, total columns are 2.

Video Wall Layout 1×2 API Commands-3

API Command Format

- `vwid layout set {videowall_name} {layout_name}`
`row:col:tx:rx:vwrows:vwcols:vwrow:vwcol:rotate:stretch:vw:`
`ow:vh:oh`
`row:col:tx:rx:vwrows:vwcols:vwrow:vwcol:rotate:stretch:vw:`
`ow:vh:oh ...`



API Example Description

- `vwrow`: the row position in the Video Wall layout, in this example, video wall layout is 1×2 , the first decoder VW01 start from 1, the row position is 1. The second decoder VW02 is also in the row 1.
- `vwcol`: the column position in the Video Wall layout, in this example, video wall layout is 1×2 , the first decoder VW01 start from 1, the column position is 1. The column position of the second decoder (RX) VW02 is 2.

Video Wall Layout 1×2 API Commands-4

API Command Format

- `vwid layout set {videowall_name} {layout_name}`
`row:col:tx:rx:vwrows:vwcols:vwrow:vwcol:rotate:stretch:vw:ow:vh:oh`
`row:col:tx:rx:vwrows:vwcols:vwrow:vwcol:rotate:stretch:vw:ow:vh:oh`
...

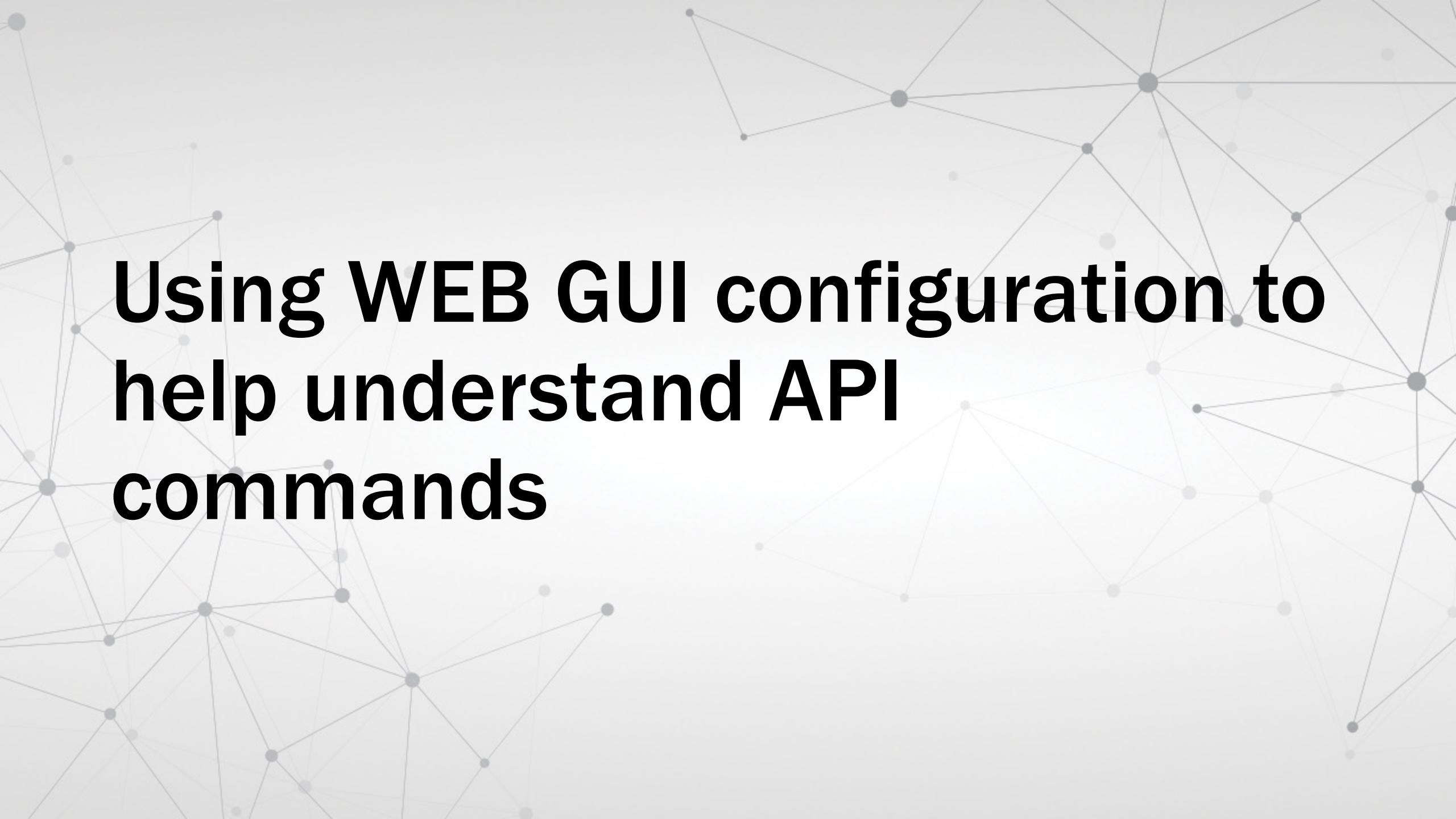


API Example Description

- `rotate`: the value can be 0, 180, 270. 180 means the display is rotated by 180 degree. 0 means no rotation.
- `stretch`: the value can 1 or 2. 1 means stretch out the input source and keep the aspect ration. 2 means the input source will fit in the screen in full screen display mode.
- `vw`: visible width of display.
- `ow`: outer width of display.
- `vh`: visible height of display.
- `oh`: outer height of display.
- `vw:ow:vh:oh` default value is 1:1:1:1.

Video Wall Layout 1×2 API Commands-5

- **vwid add COVEMOON 2 2**
 - {"cmd":"vwid add COVEMOON 2 2","info":"OK","code":0}
- **vwid layout add COVEMOON tab**
 - {"cmd":"vwid layout add COVEMOON tab","info":"OK","code":0}
- **vwid layout setrowcol COVEMOON tab 1 2**
 - {"cmd":"vwid layout setrowcol COVEMOON tab 1 2","info":"OK","code":0}
- **vwid layout list COVEMOON**
 - {"cmd":"vwid layout list COVEMOON","info":{"tab":{"cols":2,"rows":1,"layout":[]}}, "code":0}
- **vwid layout set COVEMOON tab 1:1:SKY2:VW01:1:2:1:1:0:2:1:1:1:1 1:2:SKY2:VW02:1:2:1:2:0:2:1:1:1:1**
 - {"cmd":"vwid layout set COVEMOON tab 1:1:SKY2:VW01:1:2:1:1:0:2:1:1:1 1:2:SKY2:VW02:1:2:1:2:0:2:1:1:1:1", "info":"OK", "code":0}
- **vwid layout active COVEMOON tab**
 - {"cmd":"vwid layout active COVEMOON tab","info":"OK","code":0}
- **vwid layout osd COVEMOON tab off**
 - {"cmd":"vwid layout osd COVEMOON tab off","info":"OK","code":0}
- **vwid layout osd COVEMOON tab on**
 - {"cmd":"vwid layout osd COVEMOON tab on","info":"OK","code":0}

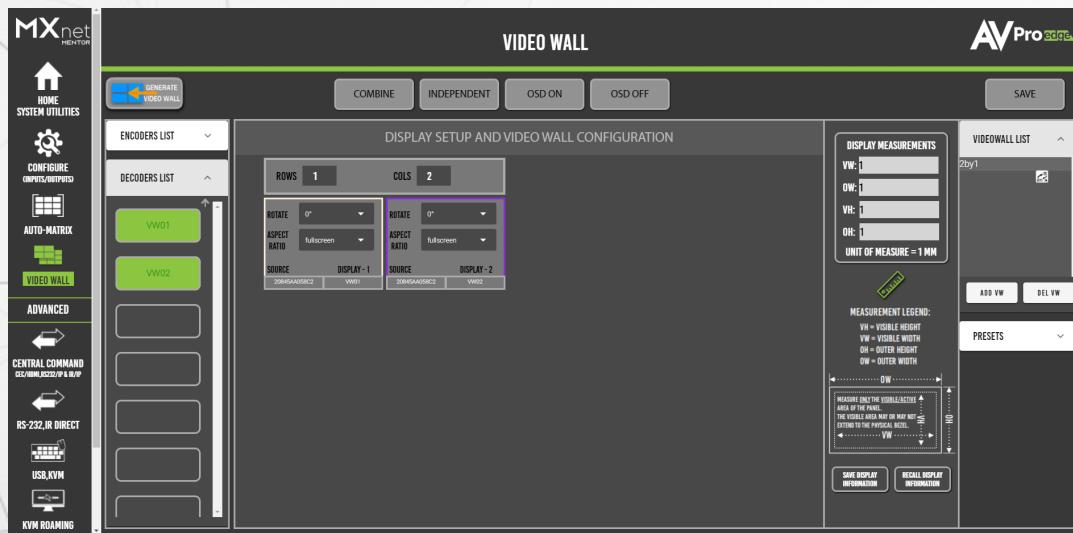


Using WEB GUI configuration to help understand API commands

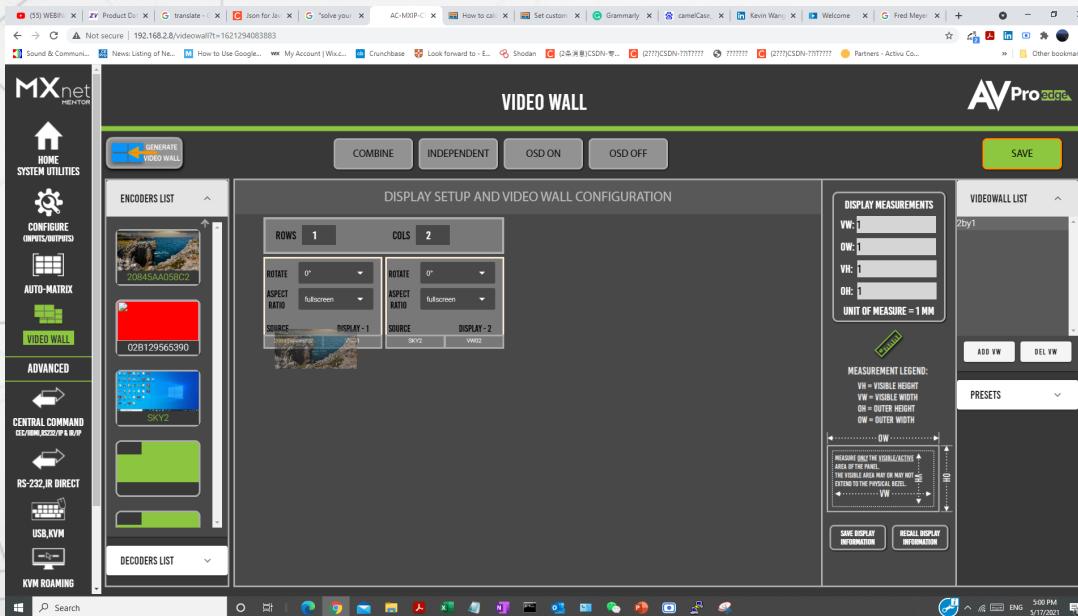
Using WEB GUI configuration to help understand API commands

1. Create a 1×2 video wall by using WEB GUI
2. Create two layouts by using WEB GUI, first layout is 1×2 video wall display the source in full-screen mode, second layout is 1×2 video wall display the source in cropping mode but keep the aspect ratio
3. Using API layout list command to check the configuration and understand the API parameters

Create a 1x2 video wall by using WEB GUI



Create a 1x2 video wall by using WEB GUI



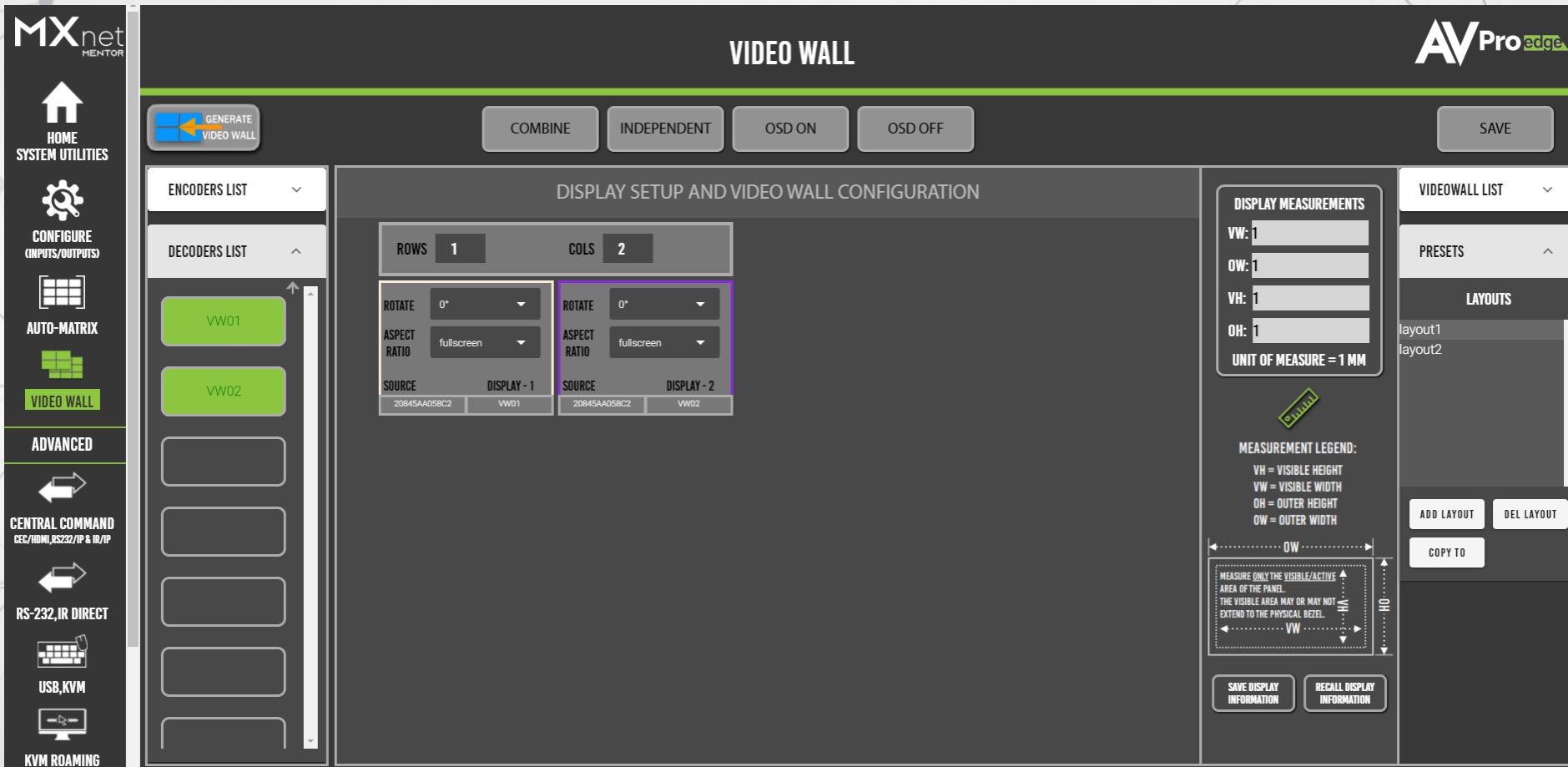
- Drag and drop the encoder to display (monitor)
- And then drag and drop the decoder to display (monitor)

Create a 1×2 video wall by using WEB GUI

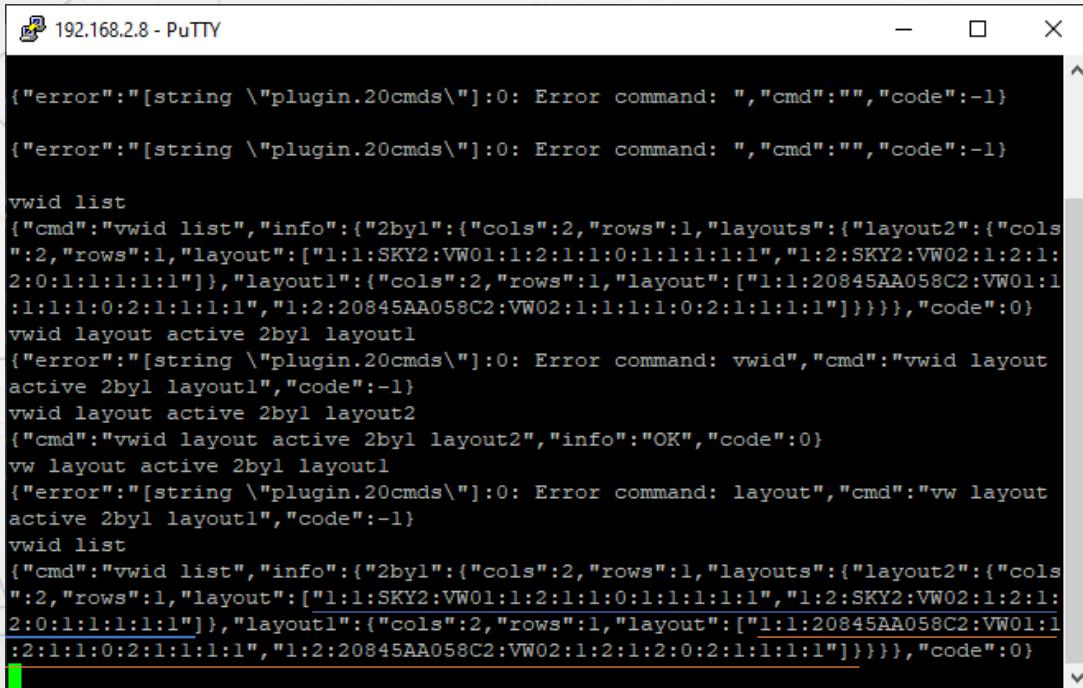


- left click monitor 1, and monitor 2
- And then click “COMBINE” button
- Then click “Generate VIDEO WALL” button to active this video wall layout

Using WEB GUI to create layouts



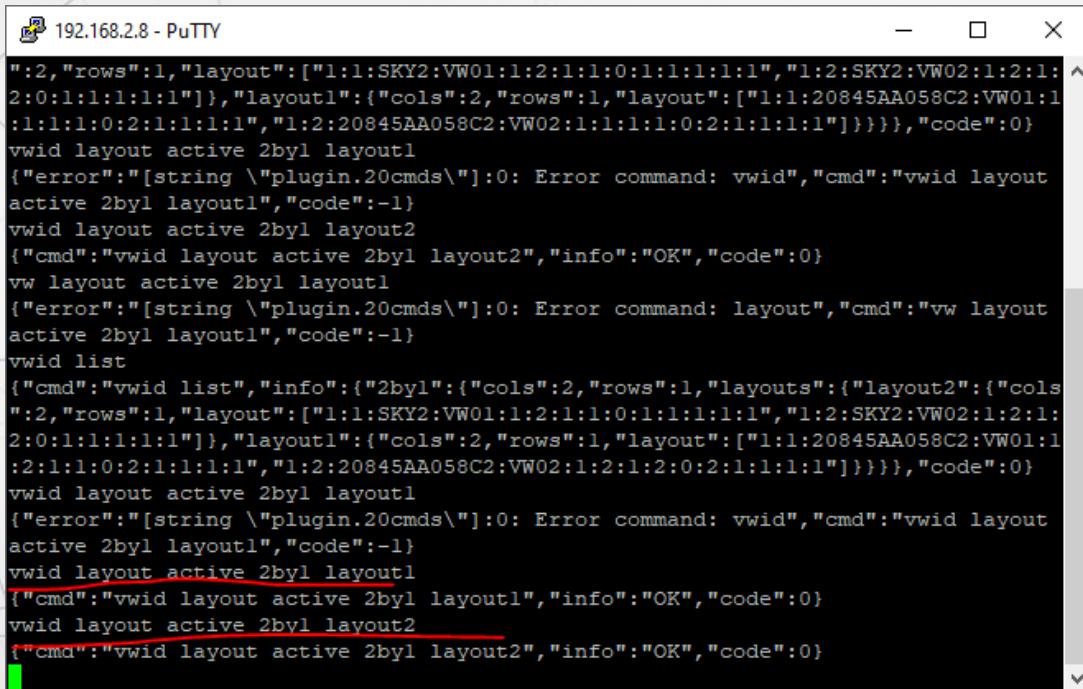
3. Using API layout list command to check the configuration



```
"error": "[string \\\"plugin.20cmds\\\"]:0: Error command: \",\"cmd\":\"\",\"code\":-1}\n\n\"error\": [string \\\"plugin.20cmds\\\"]:0: Error command: \",\"cmd\":\"\",\"code\":-1}\n\nvvid list\n{\"cmd\":\"vvid list\",\"info\":{\"2by1\":{\"cols\":2,\"rows\":1,\"layouts\":{\"layout2\":{\"cols\":2,\"rows\":1,\"layout\":[\"1:1:SKY2:VW01:1:2:1:1:0:1:1:1:1:1\",\"1:2:SKY2:VW02:1:2:1:2:0:1:1:1:1:1\"]},\"layout1\":{\"cols\":2,\"rows\":1,\"layout\":[\"1:1:20845AA058C2:VW01:1:1:1:0:2:1:1:1:1\"]}}},\"code\":0}\nvvid layout active 2by1 layout1\n{\"error\": [string \\\"plugin.20cmds\\\"]:0: Error command: vwid\",\"cmd\":\"vvid layout active 2by1 layout1\", \"code\":-1}\nvvid layout active 2by1 layout2\n{\"cmd\":\"vvid layout active 2by1 layout2\", \"info\":\"OK\", \"code\":0}\nvw layout active 2by1 layout1\n{\"error\": [string \\\"plugin.20cmds\\\"]:0: Error command: layout\", \"cmd\":\"vw layout active 2by1 layout1\", \"code\":-1}\nvvid list\n{\"cmd\":\"vvid list\",\"info\":{\"2by1\":{\"cols\":2,\"rows\":1,\"layouts\":{\"layout2\":{\"cols\":2,\"rows\":1,\"layout\":[\"1:1:SKY2:VW01:1:2:1:1:0:1:1:1:1:1\",\"1:2:SKY2:VW02:1:2:1:2:0:1:1:1:1:1\"]},\"layout1\":{\"cols\":2,\"rows\":1,\"layout\":[\"1:1:20845AA058C2:VW01:1:2:1:1:0:2:1:1:1:1\"]}}},\"code\":0}
```

- Format: vwid layout set {videowall_name} {layout_name}
row:col:tx:rx:vwrows:vwcols:vwrow:vw
col:rotate/stretch:vw:ow:vh:oh
row:col:tx:rx:vwrows:vwcols:vwrow:vw
col:rotate/stretch:vw:ow:vh:oh ...
- API commands:
 - **vvid layout set 2by1 layout2**
1:1:SKY2:VW01:1:2:1:1:0:1:1:1:1:1
1:2:SKY2:VW02:1:2:1:2:0:1:1:1:1:1
 - **vvid layout set 2by1 layout1**
1:1:20845AA058C2:VW01:1:2:1:1:0:2:
1:1:1:1
1:2:20845AA058C2:VW02:1:2:1:2:0:2:
1:1:1:1

Video Wall Layout Switching by API Commands



```
192.168.2.8 - PuTTY
:vwid layout active 2by1 layout1
{"cmd":"vwid layout active 2by1 layout1","info":"OK","code":0}
vwid layout active 2by1 layout1
{"error":"[string \"plugin.20cmds\"]:0: Error command: vwid","cmd":"vwid layout active 2by1 layout1","code":-1}
vwid layout active 2by1 layout2
{"cmd":"vwid layout active 2by1 layout2","info":"OK","code":0}
vw layout active 2by1 layout
{"error":"[string \"plugin.20cmds\"]:0: Error command: layout","cmd":"vw layout active 2by1 layout1","code":-1}
vwid list
{"cmd":"vwid list","info":{"2by1":{"cols":2,"rows":1,"layouts":{"layout2":{"cols":2,"rows":1,"layout":["1:1:SKY2:VW01:1:2:1:1:0:1:1:1:1:1","1:2:SKY2:VW02:1:2:1:2:0:1:1:1:1:1"]}},"layout1":{"cols":2,"rows":1,"layout":["1:1:20845AA058C2:VW01:1:1:1:0:2:1:1:1:1","1:2:20845AA058C2:VW02:1:1:1:0:2:1:1:1:1"]}}},"code":0}
vwid layout active 2by1 layout1
{"error":"[string \"plugin.20cmds\"]:0: Error command: vwid","cmd":"vwid layout active 2by1 layout1","code":-1}
vwid layout active 2by1 layout1
{"cmd":"vwid layout active 2by1 layout1","info":"OK","code":0}
vwid layout active 2by1 layout2
{"cmd":"vwid layout active 2by1 layout2","info":"OK","code":0}
```

- vwid layout active 2by1 layout1
 - {"cmd":"vwid layout active 2by1 layout1","info":"OK","code":0}
- vwid layout active 2by1 layout2
 - {"cmd":"vwid layout active 2by1 layout2","info":"OK","code":0}

KVM Mouse Roaming

- API command
 - config set device kvmroaming output2,-1,0 output1
 - output1 is the master decoder that connected to Master Monitor
 - output2 is the slave decoder that connected to Slave Monitor



Master Monitor output1 position is (0,0)
Slave Monitor output2 position is (-1,0)

```
config set device kvmroaming output2,-1,0 output1
{"gid":200000,"cmd":"config set device kvmroaming output2,-1,0 output1","info":"Set success, output1 will reboot","code":0}
```

Capture an input preview picture

- API command:
 - config set device capture APPLETV-4K
 - {"gid":200000,"cmd":"config set device capture APPLETV-4K","code":0}
- <http://192.168.1.246:81/capture.bmp?dev=022B50528B3D>
- After sending the command, the picture can be downloaded from the link below:
- http://IPCBox'IP:81/capture.bmp?dev=device_mac

