

Vertex2 / DIVA install & setup

How to Install

Setup

---basic setup(for normal user)

---Advance setup(for adv user)

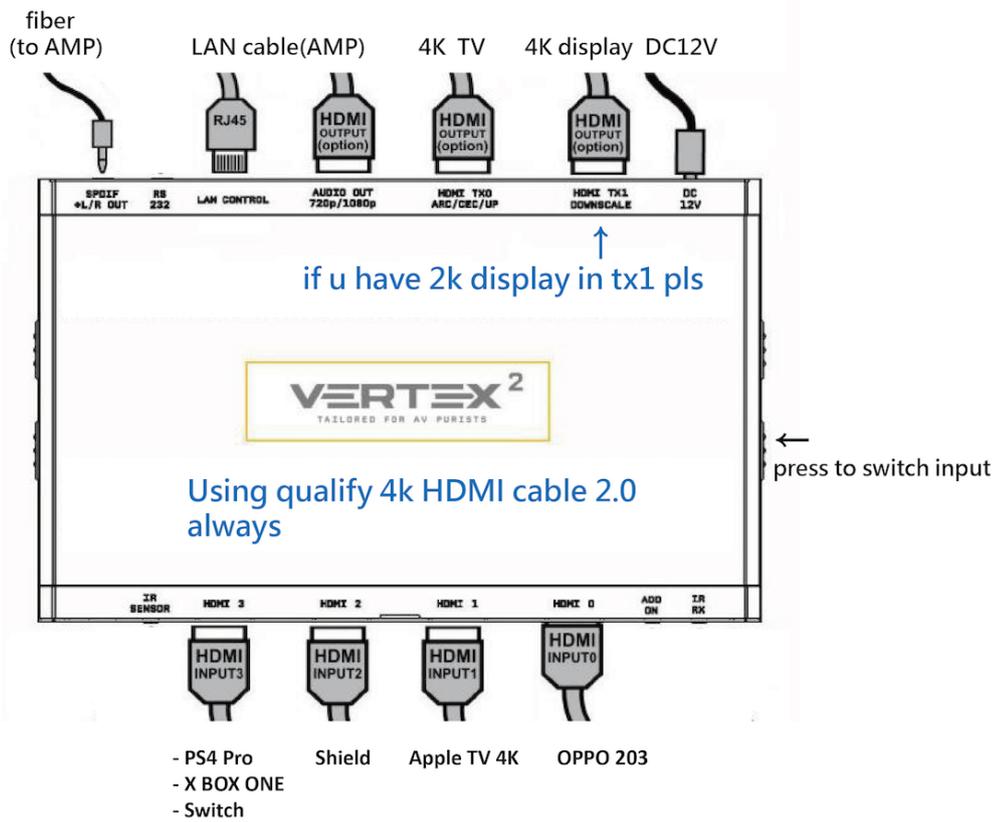
Ask For help(please offer config file)

How to update firmware

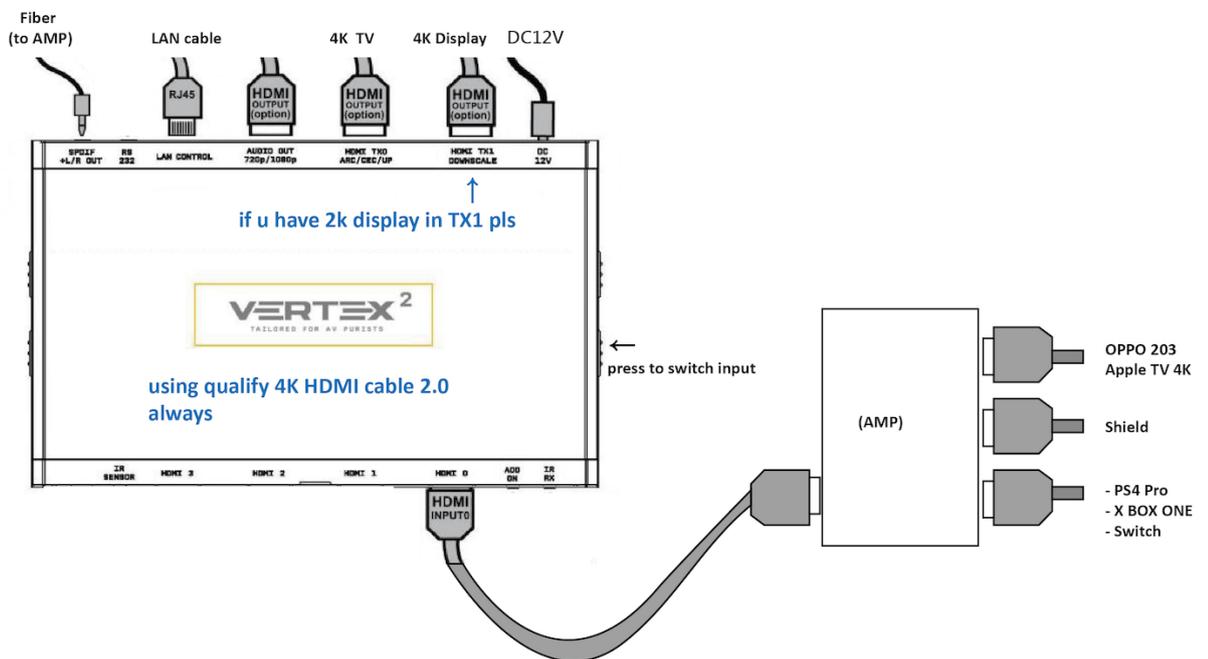
How to reset to factory default

How to Install

Connection way 1 Using Vertex2/DIVA for HDMI Switcher



Connection way 2 Using AMP for HDMI switcher—please make sure your AMP support Dolby Vision / atmos



Setup

1. Connect LAN cable to Vertex2 or DIVA ,than Plug DC12V power than display will show IP adresss
2. Using same LAN segment via phone or computer via Chrome for example
In web link enter IP address than can see after web setup picture
Here is like after <http://192.168.1.117>



Basic Setup(for normal user)

Make projector can watch Dolby Vision setup

A. Pick CUSTOM > select 5. Custom Default [SONY A1 LLDV DCI-P3]

The screenshot shows the VERTEX 2 projector's configuration menu. At the top, the logo 'VERTEX²' is displayed with the tagline 'TAILORED FOR AV PURISTS'. Below the logo, system information is provided: Hostname: http://VERTEX2-09/ [mDNS: http://VERTEX2-09.local/], IP Address: 192.168.86.9, and FW: 0.60. The main menu includes tabs for INFO, EDID, SCALER, HDR/AVI, DV, OSD, CEC/EARC, and MACROS. The 'CONFIG' section is active, showing options for COPY TX0 SINK, COPY TX1 SINK, and FIXED EDID [4K60 420 300MHz 8Bit 2ch audio]. The 'CUSTOM' option is selected, and a dropdown menu is open, listing 14 custom default profiles. Option 5, '5 - Custom Default [SONY A1 LLDV DCI-P3]', is highlighted with a blue checkmark. Other options include '1 - Custom Default [FULL no DV]', '2 - Custom Default [FULL + LG DV]', '3 - Custom Default [FULL + Vizio DV]', '4 - Custom Default [Q9FN ALLM VRR HDR10+]', '6 - Custom Default [LG65C7 DV V1]', '7 - Custom Default [VizioM50E1 DV V0]', '8 - Custom Default [LG65C8 LLDV]', '9 - Custom Default [PanaGZ960E DV HDR10+]', '10 - Custom Default [SONY A1 LLDV BT2020]', '11 - 4K60-444 600MHz HDR BT2020 All Sound', '12 - 4K60-444 600MHz HDR BT2020 SPDIF', '13 - 4K60-444 600MHz HDR BT2020 Stereo', and '14 - 4K60-444 600MHz BT2020 All Sound'. The 'AUTOMIX' section is also visible, with checkboxes for VIDEO FLAGS, AUDIO FLAGS, HDR FLAGS, DV FLAGS, and MATRIXMODE. At the bottom, there are buttons for 'DOWNLOAD ACTIVE EDID TABLES' (RX0 EDID, RX1 EDID, TX0 EDID, TX1 EDID), 'SAVE ACTIVE EDID TO CUSTOM' (SAVE), 'UPLOAD EDID TABLES' (選擇檔案, SEND EDID), and a 'Refresh' button.

B. HDR/AVI Page setup like after

INFO	EDID	SCALER	HDR/AVI	DV	OSD	CEC/EARC	MACROS
TOOLS				CONFIG			
CAPTURED INPUT HDR METADATA:							
<input type="text"/>							
EOTF: GRN: BLU: RED: WP: Max/Min Lum: MaxCLL/FALL:							
HDR METADATA GENERATOR:							
<input type="checkbox"/> Use custom HDR for TX0 and TX1 [ignore RX HDR]							
<input type="checkbox"/> Use custom HDR for TX0 and TX1 when input is HDR10 [ignore RX HDR10]							
<input type="checkbox"/> Use custom HDR for TX0 and TX1 when input is HLG [ignore RX HLG]							
<input type="checkbox"/> Use custom HDR for TX0 and TX1 when input is HLG and display has no HLG support							
<input checked="" type="checkbox"/> Use custom HDR for TX0 and TX1 when input is LLDV							
<input type="checkbox"/> Disable output HDR for TX0 and TX1 when input is HDR10							
<input type="checkbox"/> Disable output HDR for TX0 and TX1 when input is HLG							
<input type="checkbox"/> Disable output LLDV for TX0 and TX1 when input is LLDV							
<input type="checkbox"/> Disable all output HDR/HLG [keep LLDV]							
EOTF:	SMPTE ST 2084		Primaries:	DCI P3		WP:	D65
Max Luminance [nits]:				4000			
Min Luminance [nits]:				0.0001			
MaxCLL [nits]:				1000			
MaxFALL [nits]:				400			
<input type="text" value="87:01:1a:e1:02:00:c2:33:c4:86:4c:1d:b8:0b:d0:84:80:3e:13:3d:42:40:a0:0f:01:00:e8:03:90:01:00"/>							
Create IF		Default IF		Send HDR			

C. How to confirm your source player is playing DV content

If see after red square have text value its mean source player play DV content.

The screenshot shows a software interface with a top navigation bar containing tabs: INFO, EDID, SCALER, HDR/AVI, DV, OSD, CEC/EARC, MACROS, TOOLS, and CONFIG. The 'DV' tab is selected.

CAPTURED INPUT DOLBY VISION METADATA [from source]:

81:01:1B:4A:46:D0:00:03:00:00:00:00:00:00:00:00:00:00:00:00:00:00

DV Status: active
DV interface: low latency
Backlight metadata: not present
Backlight Max Luminance: not present
Auxiliary runmode: not present
Auxiliary version: not present
Auxiliary debug: not present

CONNECTED DOLBY VISION EDID DATABLOCK [sink tx0]:

DV Version: not present
DV DM Version: not present
DV Interface: not present
2160p60: not present
YUV422 12bit: not present
Global Dimming: not present
Backlight Control: not present
RED Primary: not present
GREEN Primary: not present
BLUE Primary: not present
MAX/MIN Luminance: not present

CONSTRUCT CUSTOM DOLBY VISION DATA BLOCK (for advanced users only):
Generates a 12-byte DV Version 2 Data Block. Select AUTOMIX with CUSTOM STRING -flag to activate.

DV Interface: Low latency 12Bit YCbCr 422

Primaries: DCI P3 YUV422 12bit: supported Global Dimming: not supported

Backlight Ctrl: not supported Backlight Minlum: 100 nits Support 10/12b: 10/12b disabled

RED Primary X: 0.680
RED primary Y: 0.320
GREEN primary X: 0.265
GREEN primary Y: 0.690
BLUE primary X: 0.150
BLUE primary Y: 0.060
MAX luminance [nits]: 1000 Range 100 - 10000 nits
MIN luminance [nits]: 0 Range 0 - 1 nits

EB:01:46:D0:00:45:03:80:86:60:76:8F

Create Default Send DV

DV STATUS OK Refresh

Advance setup(for adv user)

A. Pick AUTOMIX like after

Than pick rest options like after. (VIDEO FLAGS: TX0 mean display connect to TX0)

The screenshot shows the EDID configuration page with the following settings and annotations:

- INFO** | **EDID** | SCALER | HDR/AVI | DV | OSD | CEC/EARC | MACROS | CONFIG
- COPY TX0 SINK
- COPY TX1 SINK
- FIXED EDID [4K60 420 300MHz 8Bit 2ch audio]
- CUSTOM
 - INPUT 0: 5 - Custom Default [SONY A1 LLDV DCI-P3]
 - INPUT 1: 0 - Follow INPUT 0
 - INPUT 2: 0 - Follow INPUT 0
 - INPUT 3: 0 - Follow INPUT 0
- AUTOMIX**
 - VIDEO FLAGS: TX0 (circled), TX1
 - AUDIO FLAGS: STEREO, 5.1, FULL, AUDIO OUT (circled)
 - HDR FLAGS: HDR/HDR10+ (circled), HLG (circled)
HDR/HDR10+ and HLG need to be checked if display already support
 - DV FLAGS: CUSTOM DV STRING (circled)
Create DV string under DV tab
 - MATRIXMODE: COPY SINKS
Copy sink EDIDs directly without applying EDID flags
- DOWNLOAD ACTIVE EDID TABLES:**
 - RX0 EDID, RX1 EDID, RX2 EDID, RX3 EDID
 - TX0 EDID, TX1 EDID, AUD EDID
- SAVE ACTIVE EDID TO CUSTOM EDID 10:**
 - SAVE
- UPLOAD EDID TABLES:**
 - 選擇檔案 (尚未選取檔案)
 - TABLE #: 1 - Custom #1
 - SEND EDID
- READY** | Refresh

B. HDR/AVI Page setup like after

INFO	EDID	SCALER	HDR/AVI	DV	OSD	CEC/EARC	MACROS
TOOLS				CONFIG			
CAPTURED INPUT HDR METADATA:							
<input type="text"/>							
EOTF: GRN: BLU: RED: WP: Max/Min Lum: MaxCLL/FALL:							
HDR METADATA GENERATOR:							
<input type="checkbox"/> Use custom HDR for TX0 and TX1 [ignore RX HDR]							
<input type="checkbox"/> Use custom HDR for TX0 and TX1 when input is HDR10 [ignore RX HDR10]							
<input type="checkbox"/> Use custom HDR for TX0 and TX1 when input is HLG [ignore RX HLG]							
<input type="checkbox"/> Use custom HDR for TX0 and TX1 when input is HLG and display has no HLG support							
<input checked="" type="checkbox"/> Use custom HDR for TX0 and TX1 when input is LLDV							
<input type="checkbox"/> Disable output HDR for TX0 and TX1 when input is HDR10							
<input type="checkbox"/> Disable output HDR for TX0 and TX1 when input is HLG							
<input type="checkbox"/> Disable output LLDV for TX0 and TX1 when input is LLDV							
<input type="checkbox"/> Disable all output HDR/HLG [keep LLDV]							
EOTF:	SMPTE ST 2084		Primaries:	DCI P3		WP:	D65
Max Luminance [nits]:				4000			
Min Luminance [nits]:				0.0001			
MaxCLL [nits]:				1000			
MaxFALL [nits]:				400			
<input type="text" value="87:01:1a:e1:02:00:c2:33:c4:86:4c:1d:b8:0b:d0:84:80:3e:13:3d:42:40:a0:0f:01:00:e8:03:90:01:00"/>							
Create IF		Default IF		Send HDR			

C. How to confirm your source player is playing DV content

If see after red square have text value its mean source player play DV content.

INFO EDID SCALER HDR/AVI DV OSD CEC/EARC MACROS TOOLS CONFIG

CAPTURED INPUT DOLBY VISION METADATA [from source]:

81:01:1B:4A:46:D0:00:03:00:00:00:00:00:00:00:00:00:00:00:00:00:00

DV Status: active
DV interface: low latency
Backlight metadata: not present
Backlight Max Luminance: not present
Auxiliary runmode: not present
Auxiliary version: not present
Auxiliary debug: not present

CONNECTED DOLBY VISION EDID DATABLOCK [sink tx0]:

DV Version: not present
DV DM Version: not present
DV Interface: not present
2160p60: not present
YUV422 12bit: not present
Global Dimming: not present
Backlight Control: not present
RED Primary: not present
GREEN Primary: not present
BLUE Primary: not present
MAX/MIN Luminance: not present

CONSTRUCT CUSTOM DOLBY VISION DATA BLOCK (for advanced users only):
Generates a 12-byte DV Version 2 Data Block. Select AUTOMIX with CUSTOM STRING -flag to activate.

DV Interface:

Primaries: YUV422 12bit: Global Dimming:

Backlight Ctrl: Backlight Minlum: Support 10/12b:

RED Primary X:
RED primary Y:
GREEN primary X:
GREEN primary Y:
BLUE primary X:
BLUE primary Y:
MAX luminance [nits]: Range 100 - 10000 nits
MIN luminance [nits]: Range 0 - 1 nits

EB:01:46:D0:00:45:03:80:86:60:76:8F

DV STATUS OK

Ask For help(please offer config file)

In CONFIG page click EXPORT will download a txt file. Please offer us for help you fix issue.

Like after

INFO	EDID	SCALER	HDR/AVI	DV	OSD	CEC/EARC	MACROS	CONFIG
VERTEX2 SETUP:								
AUTOSWITCH INPUTS: <input type="radio"/> OFF <input checked="" type="radio"/> ON POWER <input type="radio"/> ON SENSE Reboot required after changes. ON SENSE -only for advanced users.								
VERTEX2 CONTROL:								
REBOOT UNIT	<input type="button" value="REBOOT"/>							
EXPORT CONFIG	<input type="button" value="EXPORT"/>							
IMPORT CONFIG	<input type="button" value="選擇檔案"/> 尚未選取檔案		<input type="button" value="IMPORT"/>					
ISSUE HOTPLUG	<input type="button" value="SEND"/>							
RESET TO FACTORY DEFAULTS:								
<input type="checkbox"/> CLEAR ALL SETTINGS TO FACTORY DEFAULTS:								
<input type="checkbox"/> EDID FACTORY SETTINGS:								
<input type="text" value="Type RESET here"/>	<input type="button" value="RESET"/>							
FW UPDATE:	<input type="button" value="選擇檔案"/> 尚未選取檔案		<input type="button" value="SEND"/>					

How to update firmware

In CONFIG Page

Click 1 than select the firmware bin file for update , than click 2 SEND starting Updating around 1 min after will finish update and reboot

Like after

The screenshot displays the CONFIG page of a device's web interface. At the top, there is a navigation menu with tabs for INFO, EDID, SCALER, HDR/AVI, DV, OSD, CEC/EARC, MACROS, and CONFIG. Below the menu, the 'VERTEX2 SETUP:' section is visible, featuring 'AUTOSWITCH INPUTS:' with radio buttons for OFF, ON POWER (selected), and ON SENSE. A note states: 'Reboot required after changes. ON SENSE -only for advanced users.'

The main content area includes several sections:

- REBOOT UNIT:** A REBOOT button.
- EXPORT CONFIG:** An EXPORT button.
- IMPORT CONFIG:** A button labeled '選擇檔案' (Choose File) with the text '尚未選取檔案' (No file selected) next to it, and an IMPORT button.
- ISSUE HOTPLUG:** A SEND button.
- RESET TO FACTORY DEFAULTS:** Two radio buttons: 'CLEAR ALL SETTINGS TO FACTORY DEFAULTS:' and 'EDID FACTORY SETTINGS:'. Below them is a text input field 'Type RESET here' and a RESET button.
- FW UPDATE:** A button labeled '選擇檔案' (Choose File) with the text '尚未選取檔案' (No file selected) next to it, and a SEND button.

Red annotations are present: a red arrow points to the '選擇檔案' button in the FW UPDATE section, which is labeled with a red '1'. The SEND button in the same section is labeled with a red '2'. At the bottom left, the status 'CONFIG STATUS OK' is shown, and at the bottom right, there is a Refresh button.

How to reset to factory default

In CONFIG page like after

Pick CLEAR ALL SETTING TO FACTORY DEFAULTS:

Pick EDID FACTORY SETTINGS:

1. Typing RESET
2. Click RESET

The screenshot shows the CONFIG page of a device's web interface. The top navigation bar includes tabs for INFO, EDID, SCALER, HDR/AVI, DV, OSD, CEC/EARC, MACROS, and CONFIG. The main content area is divided into two sections: VERTEX2 SETUP and VERTEX2 CONTROL.

VERTEX2 SETUP:

AUTOSWITCH INPUTS: OFF ON POWER ON SENSE
Reboot required after changes. ON SENSE -only for advanced users.

VERTEX2 CONTROL:

REBOOT UNIT

EXPORT CONFIG

IMPORT CONFIG 尚未選取檔案

ISSUE HOTPLUG

RESET TO FACTORY DEFAULTS:

CLEAR ALL SETTINGS TO FACTORY DEFAULTS:

EDID FACTORY SETTINGS:

FW UPDATE: 尚未選取檔案

CONFIG STATUS OK

Red annotations on the screenshot include a blue box around the first 'RESET' button, a red arrow labeled '1' pointing to it, and another red arrow labeled '2' pointing to the second 'RESET' button.