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## **CHE-HDBTWP230K**

HDBaseT™ Wall Plate Extender TX/RX Kit  
(up to 230ft) with HDMI, VGA and Audio



User's Manual

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Please read this manual thoroughly and follow the **Installation** procedures to prevent any damage to the unit or any connecting device.

- \* The final specifications are the actual product based.
- \* Features and functions are subject to change since the manual was written.  
Please visit the related website to download the latest version of manual for reference.

## ----- Introduction

### Overview

**4K Multi-Format HDBaseT™ Transmitter** could extend full uncompressed 4K video and HD audio over CATx cable of up to 70/100 meters. It does not only support resolution up to Full HD 1080p and 4K, but supports Deep Color and HD Audio formats as well.

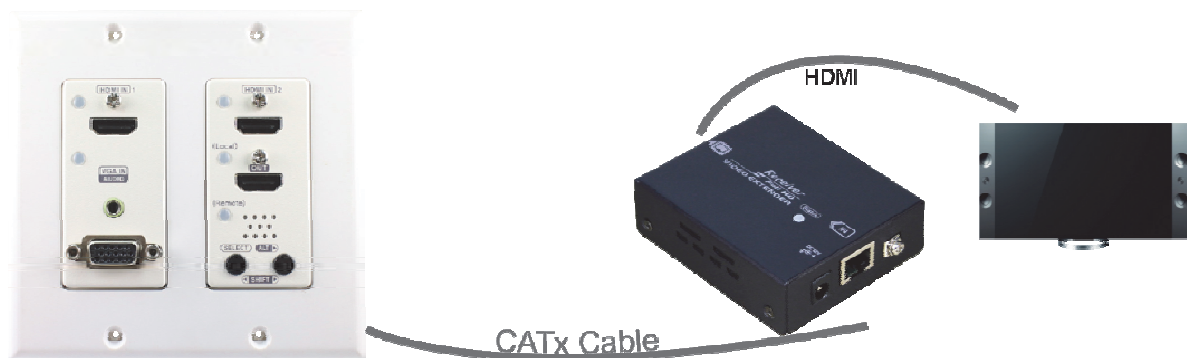
The advanced and inexpensive all-in-one connectivity technology by using low-cost and handy CATx cables, **4K Multi-Format HDBaseT™ Transmitter** is perfect for situations like hospitality (hotels, conference rooms) and digital signage (airports, shopping malls), etc.

You also need *Receiver Unit/Repeater* :

### Repeater Unit

Repeater Unit			
Type	Model	Distance	Function
BOX TYPE Repeater	<b><i>CHE-HDBTWP230RX</i></b>	70M	CATx HDMI Repeater (Max. 4K)

### Connection Diagram (with receiver)



## Product Features

- Transmit HDMI / VGA with analog audio signal up to 70 / 100 meters
- Uses **HDBaseT™** technology
- Auto EQ (Sharpness) adjustment for optimal signal clarity
- Screen Shift Mode provides user to adjust image's shifting
- Use Resolution Alternation Mode when catching multiple similar video timing
- Input source sequence selectable
- Auto-sensing function enables the system to automatically select the latest video source
- Support resolutions up to UHD (3840 x 2160) and Full HD (1920 x 1080) and compatible with most of the popular screen resolution
- HDCP compliant, 3D-video and Blu-ray ready over single CATx cable
- Plug-and-Play system without any drivers or software installation

### **Unique EGO MX Functions**

- ◆ Versatile port selection functions of Pri. HDMI, Pri. VGA/DP, Auto and Manual modes
- ◆ User-friendly port switching via button pressing or priority setting
- ◆ Two priority settings to start with VGA / HDMI source for different needs
- ◆ Auto-Sensing function enables the system to automatically select the latest video source

### **Exclusive EDID Functions**

- ◆ Multi-functions for EDID setting, like EDID Copy and EDID Pre-setting, ensuring accurate output display
- ◆ Enable separately learn Audio and Video EDID for multimedia/ Home Theater system integration
- ◆ Read and store the EDID from the connecting display to the video extension

### **Exclusive GUI Operation Functions**

- ◆ Graphically show connection status
- ◆ Most commonly used menu items are duplicated as icons on the top
- ◆ Common icons are provided
- ◆ Can name and use your own images for every source and display icon

### **Exclusive Link Port Functions**

- ◆ Increase the extension distance up to 150 meter for Full HD 1080p
- ◆ Automatically save energy for better efficiency

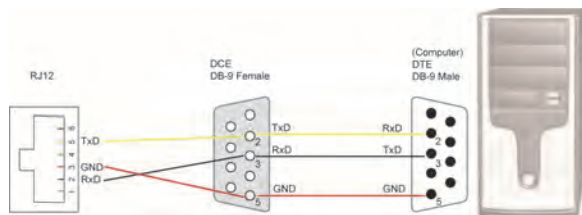
## Package Content

Content	Quantity
• Video Transmitter Unit	1
• US Dual-gang Decora plate (Plastic)	1
• Screws for wall-plate installation	1
• DC 12V Adapter	1
• DC Jack to Terminal Block adapter	1
• Quick Start Guide	1
• User's Manual	1

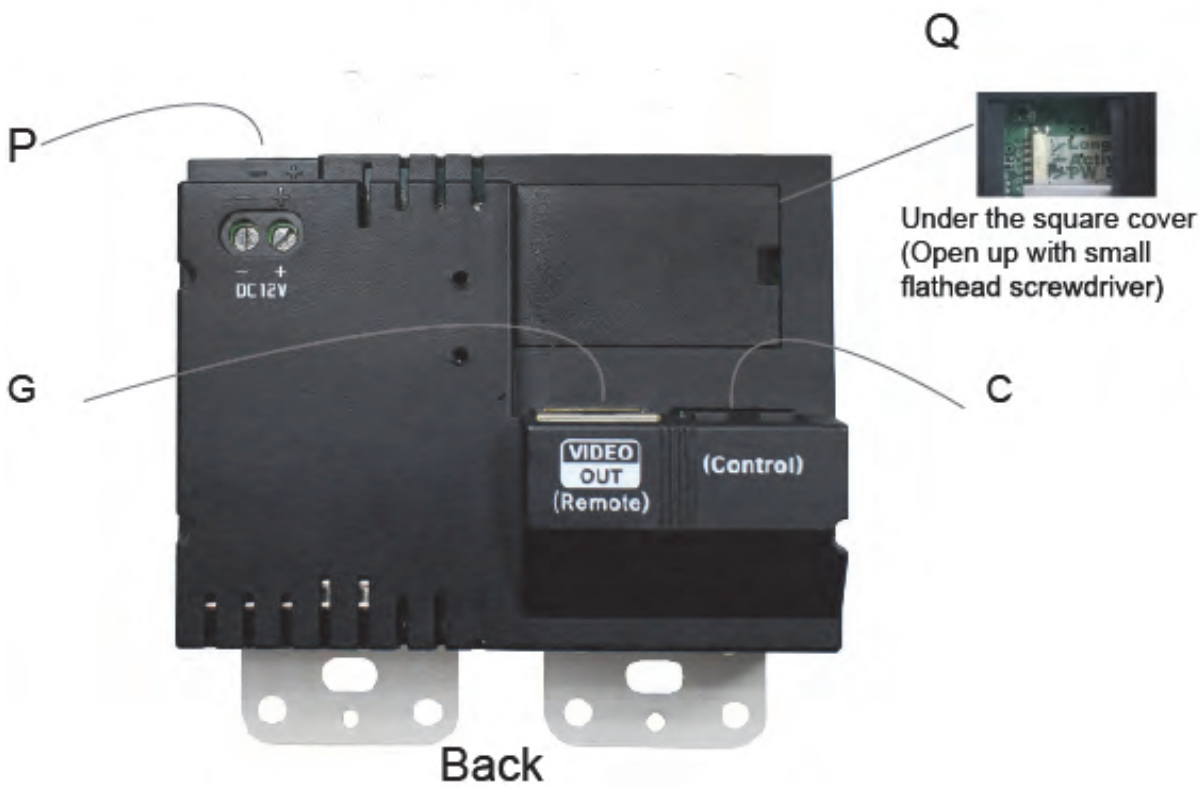
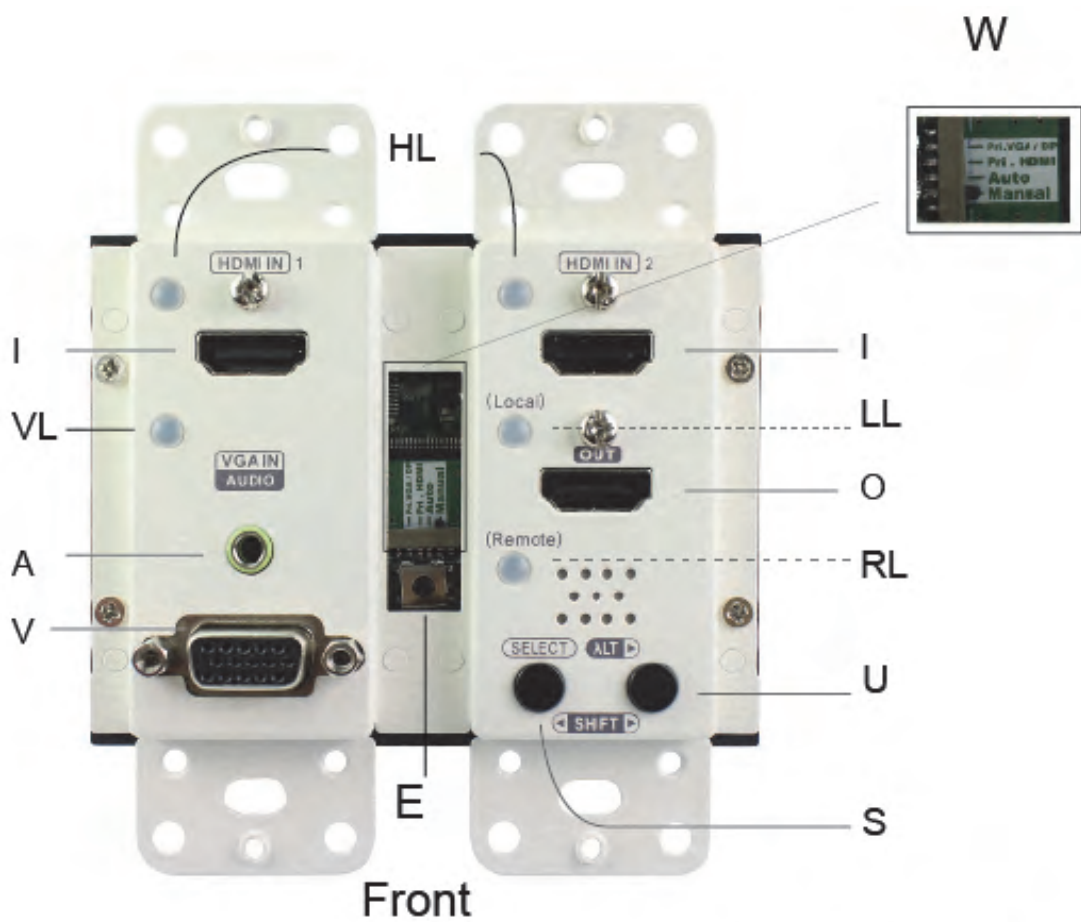
### Optional

RJ12 Cable + RJ12 to RS232 adapter\*

\*NOTE: If users want to use RJ12 to RS-232 adapter, please follow the diagram below to properly connect the pin:



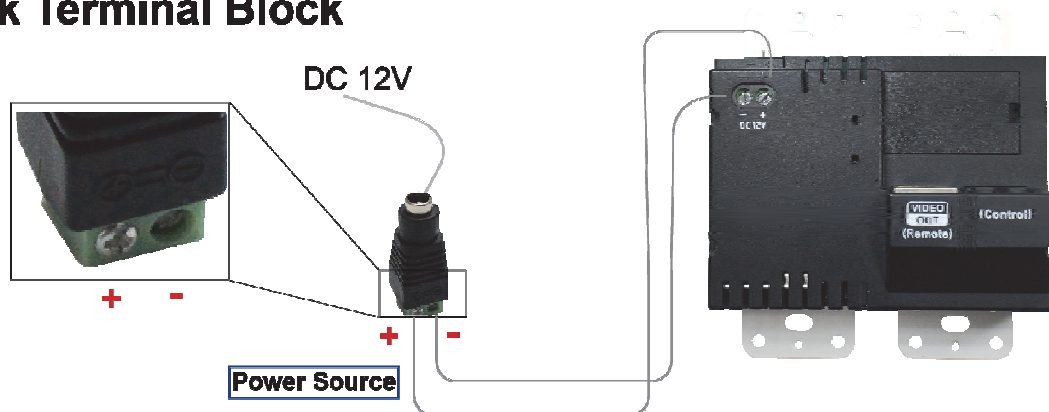
Product Description



<b>Transmitter</b>	I	Video input port	HDMI input 1 and HDMI input 2, connect to HDMI source
	V	Video Input Port	Connect to an VGA source
	O	Local Out	HDMI local out
	VL	VGA LED Indicator	Please see <b>LED Indicator</b>
	HL	HDMI LED Indicator	
	RL	Remote LED Indicator	
	LL	Local LED Indicator	
	E	EDID Button	Perform EDID function
	U	Alt Button	Please see <b>Operation (For VGA only)</b>
	S	Select Button	Please see <b>Push button/Operation</b>
	W	EGO Slide Switch	Adjust EGO setting
	A	Audio input	Audio input (pair with VGA)
	G	Remote out port	Connect to Receiver's input
	C	Serial control	Connect to a Serial control
	Q	Link Port Switch	Adjust extension/power save mode
	P	DC Jack Terminal Block*	DC 12V power supply

\* Ensure that the positive pole on the terminal block is connected to the positive pole on the wallplate and the negative pole on the terminal block is connected to the negative pole on the wallplate.

## DC Jack Terminal Block



## EGO Slide Switch



	Mode	Description
1	Manual	Press <b>Select</b> to select Source-n; all monitors display Source-n NOTE: When switching from other modes to Switch mode, all monitors display Source-1. But if there's no source detected in Source-1, it's required to manually press the button for other source selection.
2	Auto	System will automatically select the latest video source for display NOTE: When switching from other modes to Auto mode, all monitors display Source-1. But if there's no source detected in Source-1 (HDMI1), the system will automatically display the latest video source.
3	Pri. HDMI	Priority: (High Priority)HDMI1 > HDMI2 > DP / VGA NOTE: If there's no source detected in HDMI1 port, the system will automatically display the next video source.
4	Pri. VGA/DP	Priority: VGA/DP > (High Priority)HDMI2 > HDMI1 NOTE: If there's no source detected in VGA/DP port, the system will automatically display the next video source.

## Port Link Switch



Mode	Description
<b>Power Saving</b>	Automatically save energy when source or monitor connected failure
<b>Active</b>	Normal operation and stay Active (up to 4K)
<b>Long Reach</b>	Extend distance from 100M to 150M (up to Full HD 1080p). (This function is Only available on EVBMV-A1391WL)



# Installation

## WARNING!

- Prior to installation, ensure to power off all devices that will be connected to this system.
- Ensure that all devices you will connect are properly grounded.
- Place cables away from fluorescent lights, air conditioners and machines that are likely to generate electrical noise.
- Please allow adequate space around the unit for air circulation.

## Grounding

To prevent any damage to the product or any connecting devices, and to improve audio/video signal quality, it is important to make sure that the extender systems are properly grounded.

## Device Connection

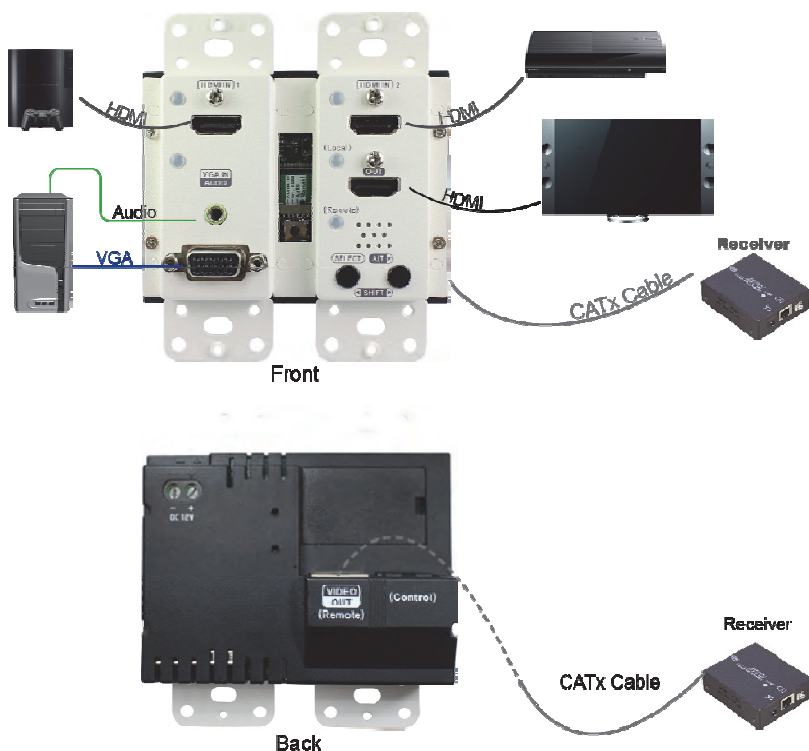
1. Use a CAT5 cable to connect to a receiver. Connect the receiver to an HDMI display.
2. Use an HDMI cable to connect the source device to the HDMI input port on the Unit. The HDMI input ports are located on the rear of the Unit. Use a HDMI cable to connect the source device to the HDMI input port and a VGA cable to connect the source device to the VGA input port on the Unit. Connect the stereo audio source to 3.5mm earphone jack (if necessary)
3. Use an HDMI cable for connection between display and the HDMI output port on the Unit (if needed).
4. Apply the proper power to the Unit; then power on all the attached sources and devices.

## NOTE:

If users encounter no screen display in display connection, you may

1. make sure the device cables are correctly and firmly attached.
2. set your display device's input source as HDMI.
3. check the PC BIOS configuration about the video output setting.
4. connect your computer to the HDMI Display DIRECTLY to check if the video signal gets through.
5. slide the switches to the correct positions according to your displays.
6. apply EDID Copy to your display (see EDID Setting section).

## Connection Pattern



## LED Indications

HDMI/DP Input Source LED (B/R)	Video OK	Source Selected	Note
Emit Blue and go off 3 times	Yes	Yes	w/o HDCP
Flash Blue once	Yes	No	
Emit Purple and go off 3 times	Yes	Yes	w/ HDCP
Flash Purple once	Yes	No	
Emit Blue and flash Red once	No	Yes	
OFF	No	No	

VGA Input Source LED (B/G/R)	Video OK	Source Selected	Note
Steady Red	NO	Yes	Or Input signal not supported
Steady Blue	Yes	Yes	
OFF		NO	
Emit Blue and Flash Orange twice	Please Refer to the operation section for more detail		
Flash Pale Blue.	Please Refer to the operation section for more detail		

Remote Unit LED (B/G/R)	ON / OFF	CAT5 detected (TLS series only)	TLISM series Status	Status
Flash Blue once	ON	YES	N/A	Monitor Non-detected
Steady Blue	ON	YES	Monitor detected	
Emit Blue and Flash Purple once Red twice	ON	YES	HDCP doesn't match	
Flash Green once	ON	NO	Monitor Non-detected	

Local Unit LED (B/R)	ON / OFF	Status
Flash Blue once	ON	Monitor Non-detected
Steady Blue	ON	Monitor detected
Emit Blue and Flash Purple once Red twice	ON	HDCP doesn't match

The quality of the output signal will depend largely upon the quality of video source, cable, and display device used. Low-quality cables degrade the output signal causing elevated noise levels. Use the proper cable and make sure the display device can handle the resolution and refresh rate selected.

## Push Button Control

### ◆ A/V Source Selection

Press **Select**: select the source in sequence (S1→S2→S3→S1...)

### ◆ Stand-by mode:

Press and hold both of **Select** button for 5 sec. and release right after **Remote** LED flash **Green**.

Then when the **Remote** LED flashes **Blue** once per 3 seconds, the system is in the stand-by mode.

And just follow the same steps to wake up from stand-by mode.

## Operation

### ◆ Screen Shift Mode (Select VGA Input)

Step 1. Press two buttons (**Select** & **Alt**) simultaneously over 2 sec. and release the buttons RIGHT AFTER

**VGA** LED turns to flash Pale Blue.

Step 2. Press left button (**Select**) or right button (**Alt**) to adjust image's position.

NOTE:

1. The system will automatically retain user's last setting.
2. Max. horizontal image displacement is 50 steps.
3. The system will automatically escape from shift mode if no activity is detected within 15 seconds, or directly press the two buttons simultaneously over 2 sec. again to leave the shift mode right away.

### ◆ Resolution Alteration Mode (Select VGA Input)

Under some particular video resolution issue, the **VGA** LED will turn to emit **Blue** and flash **Orange** twice when catching multiple similar video timing.

Step 1. Press the button (**Alt**) over 2 sec.

Step 2. LED flashes **Purple** once indicating the setting working

NOTE:

1. The system will automatically retain user's last setting.
2. Press the button over 2 sec. again to select next available resolution or switch back to the previous resolution.

### ◆ EDID Copy:

#### Copy Remote Monitor EDID

**Step 1.** Apply power to the unit.

**Step 2.** Use CAT5 to connect Remote unit to Local unit and the (EDID compliant) monitor connects to the Remote Unit. Power on the monitor.

**Step 3.** Press and hold the button "EDID COPY" around 3 sec. and release the button RIGHT AFTER the Remote LED flashes **GREEN**.

**Result.** If the Remote LED returns to normal status, indicating that the EDID Copy is completed.

#### Copy Local Monitor EDID

**Step 1.** Apply power to the unit.

**Step 2.** Connect the (EDID compliant) monitor to local output port "Local OUT" of the Unit and power on the monitor.

**Step 3.** Press and hold both of the buttons "EDID COPY" around 6 sec. and release the button RIGHT AFTER the Local LED flashes **BLUE**.

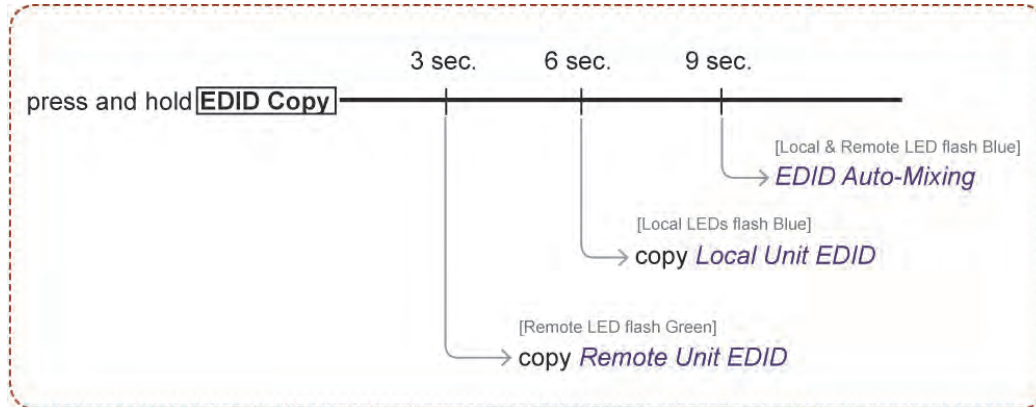
**Result.** If the Local LED returns to normal status, indicating that the EDID Copy is completed.

## EDID Auto-Mixing

**Step 1.** Apply power to the unit.

**Step 2.** Press and hold the buttons “EDID COPY” around 9 sec. and release the button RIGHT AFTER the Local & Remote LED flash **BLUE**.

**Result.** If the Local & Remote LED return to normal status, indicating that the Factory Default Setting is completed.



Otherwise, if the LED flashes **RED**, it means that

- a. The monitor is not properly connected.
- b. The monitor is not powered on.
- c. EDID data of the monitor is not applicable.

Try to repeat Step 3 to 4 again.

## Specifications

Model	Transmitter	
	CHE-HDBTWP230RX	
Input	HDMI x 2 VGA + Analog Stereo x 1	
Output	HDMI x 1	
Connection	RJ-45 x 1	
LED Indicator (Power / Status)	Source x 3 Remote x 1, Local x 1	
Push Button	SELECT x 1, ALT x 1 EDID Copy x 1 (under the cover)	
Serial Configuration	RJ-12 x 1 (Control)	
Mode Configuration	Pri-VGA/DP / Pri-HDMI / Auto / Manual	
Video Resolution (Max.)	UHD (3840 x 2160) for HDMI Full HD (1920 x 1080) for VGA	
Extension Distance*	HDMI 70M @ Full HD (1920 x 1080) 35M @ UHD (3840 x 2160)  VGA 70M @ Full HD (1920 x 1080)	HDMI 100M @ Full HD (1920 x 1080) 70M @ UHD (3840 x 2160)  VGA 100M @ Full HD (1920 x 1080)
Enclosure	Metal	

## ----- Serial Configuration

The **4K Multi-Format HDBaseT™ Transmitter's** built-in serial interface allows users to control the unit via serial control. Please follow the installation and operation steps as shown below.  
If there's no serial connector on your computer, you may use USB-to-serial adapter for connection.

The configuration of controller's serial port is shown as below.

Baud Rate	38,400 bps
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

### I. Simple Serial Connection

The following window is an example of Windows XP HyperTerminal.  
Connect and power on the Unit, and then set up serial configuration, such as correct baud rate and com port.

```
COM6,38400,None,8,1,Dumb Terminal
CE=n,a1,a2 - Copy EDID to all input ports
n: Method. a1,a2: Options
1, Default EDID (1080p)
2, Copy from specified monitor a1
3, Make 1024 x 768 EDID
4, Make 1280 x 800 EDID
5, Make 1280 x 1024 EDID
6, Make 1360 x 768 EDID
7, Make 1400 x 1050 EDID
8, Make 1440 x 900 EDID
9, Make 1600 x 900 EDID
10, Make 1600 x 1200 EDID
11, Make 1680 x 1050 EDID
12, Make 1920 x 1080 EDID
13, Make 1920 x 1200 EDID
14, Make 1920 x 1440 EDID
15, Make 2048 x 1152 EDID
16, Make 2560 x 1440 EDID
17, Make 2560 x 1600 EDID
18, Make 3840 x 2160 EDID
19, Make 4096 x 2160 EDID
More.....

when n = 1:
a1,a2 not required
when n = 2:
a1: monitor index (1-2), a2: not required
when n = 3-max:
a1: video options
1, DVI 2, HDMI(2D) 3, HDMI(3D)
a2: audio options
1, LPCM 2 ch 8, DTS 5.1 ch
2, LPCM 5.1 ch 9, DTS HD 5.1 ch
3, LPCM 7.1 ch 10, DTS HD 7.1 ch
4, Dolby AC3 5.1 ch 11, MPEG4 AAC 5.1 ch
5, Dolby TrueHD 5.1 ch 12, 5.1 ch combination
6, Dolby TrueHD 7.1 ch 13, 7.1 ch combination
7, Dolby E-AC3 7.1 ch

AVI=n - AV Input Port (n: 1-max)
OLE - Output Local Enable (AV)
OLD - Output Local Disable (AV)
ORE - Output Remote Enable (AV)
ORD - Output Remote Disable (AV)
EAOE - Extracted Audio-Out Enable
More.....
EAOE - Extracted Audio-Out Disable
EAOV=n - Extracted Audio-Out Volume (n: 0-100)
VS - View Settings
PI - Product Information
EQ=n - EQ (n:1-8)
IVG=n - Set input VCO Gain level as n (1-8)
OVG=n - Set output VCO Gain level as n (1-8)
FACTORY - Reset as factory default setting
REBOOT - Reboot device
RCID=n - Remote Control ID
n: 0 - Reset as null (Always enabled)
1-16 - Valid ID
VL - VGA Horizontal Position Shift Left
VR - VGA Horizontal Position Shift Right
VDT - VGA Display Timing
VMC - VGA Mode Change
TI=n - Set Terminal Interface n: 0 - Human 167 - Machine
LCK=n - Lock / Unlock device n: 0 - Unlock 167 - Lock

State:OPEN CTS DSR RT DCD Ready TX:14 RX:9506
```

## II. GUI over Serial

### A. Installing Application

The serial console (PC) running Windows 98/2000/XP/Vista/7 is required to install the appropriate software. Please follow the step-by-step instructions as listed below.

All prompt screens and dialog boxes shown in this section are for Windows 98 and above. Some dialog boxes and folders may slightly different in other versions of Windows.

Install the "**AV Console Center**" driver (Windows 98 and above)

Insert the CD into the CD/DVD-ROM drive and browse:

There are two ways to install the driver.

- Manually copy the file "**TuApp.exe**" to the Windows platform and run it directly.
- Run "**Setup.exe**" to automatically install the utility on the Windows platform. The "**Setup.exe**" will create a shortcut "**AV Console Center**" on Windows' desktop, and a program group "**AV Console Center**".

### B. Uninstalling Application

To uninstall the driver, it depends on the installation method you have applied.

- If you have manually installed the utility, you can just manually delete the file "**TuApp.exe**" from the Windows platform.
- If you have installed "**Setup.exe**" before, you have two ways to uninstall the application. One is that uninstall "**AV Console Center**" from Windows' Control Panel. The other is by clicking the icon "Uninstall" from the "**AV Console Center**" program group.

### C. Description & Operation

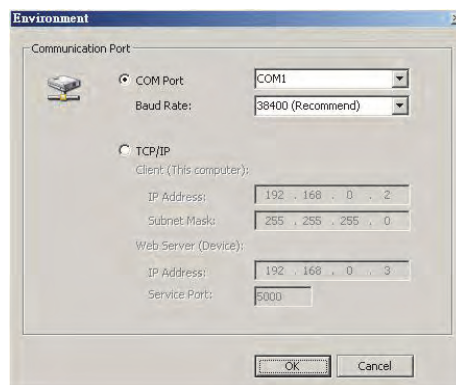
The Graphical User Interface (GUI) is designed for users to operate easier and friendlier. We divide this application into two parts—Basic Operation and Advanced Operation. For more information, please refer to the following statements.

#### Basic Operation

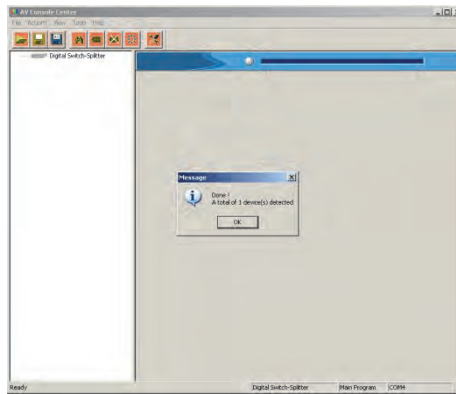
##### 1. GUI Connection

After software installation, connect the *DB9 RS-232 serial cable* (straight type male-female) to serial port of the **Switch-Splitter**. And connect the other end to the serial port (COM1, COM2...) of your computer. Next, open *Program files* on Windows and then click "**AV Console Center**" to start GUI operation.

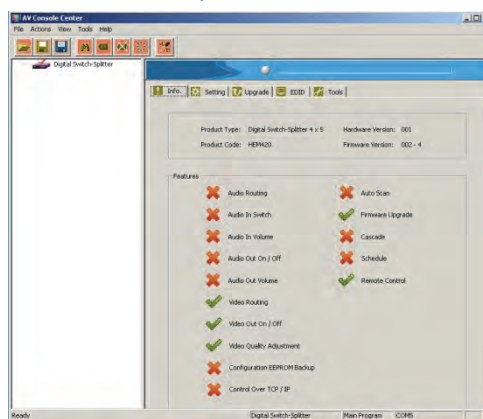
**Step 1.** Check "COM Port" and choose the proper serial port you connect, such as COM1, and set the Baud Rate as "38400".



**Step 2.** A dialog box will pop out indicating device(s) detected.

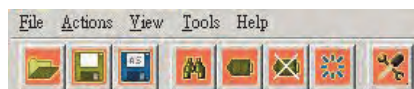


**Step 3.** Double-click “Digital Switch-Splitter” on the left block. (There are other ways to detect the device. Please refer to *Toolbar Guidance / Action*.)



## 2. GUI Toolbar Guidance

You can see the toolbar on the upper-left corner. Both top toolbars are identical in functions. For further information, please refer to the following guidance.



**2.1 File:** Allow users to open or save topology files. A topology is a usually schematic description of the arrangement of a network, including its nodes and connecting lines. So it is suggested saving a topology file.

2.1	Option	Function
1	Open Existing Topology	Open pre-stored topology file
2	Save Current Topology	Allow users to save current topology file in the software installed location
3	Save Current Topology As...	Allow users to save current topology file in the requested location
4	Exit	Exit the system

**2.2 Actions:** Detect all devices or connect the selected device.

When checking *Detect All Devices*, it will show the dialog box below which means successfully detect the device.

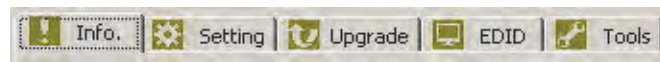
**2.3 View:** Show or hide the (*Icon*) *Toolbar / Status Bar* (on the bottom of the window)

**2.4 Tools:** Select *Environment* to set up COM Port and Baud Rate or set up TCP/IP address for the device..



**2.5 Help:** Show the software version and copyright information.

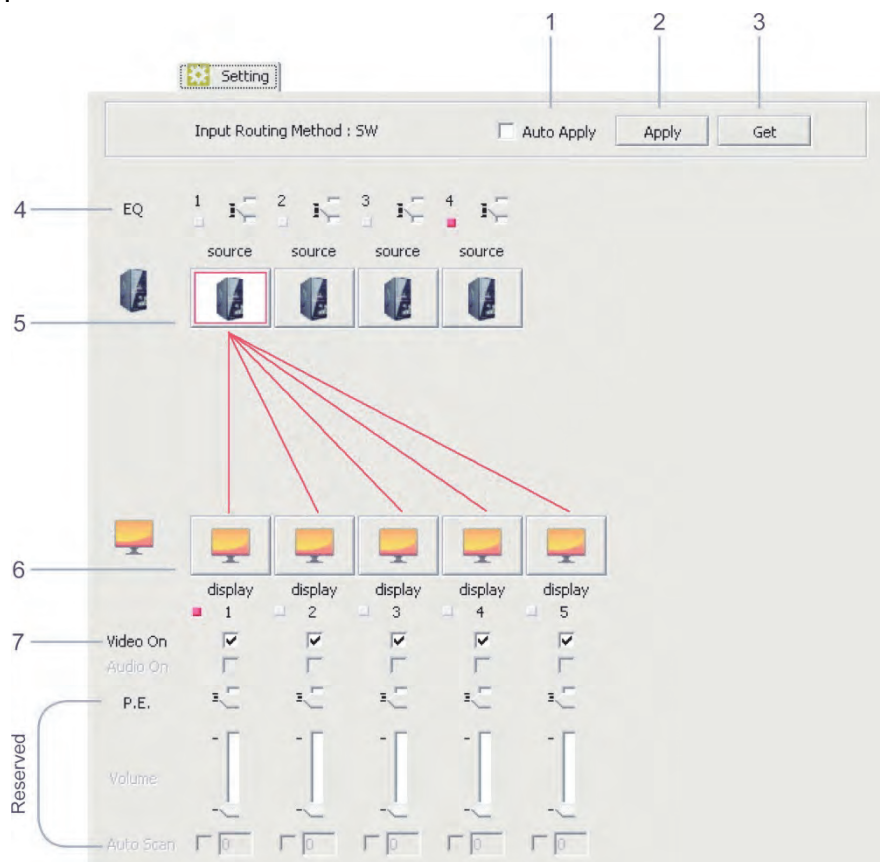
### 3. GUI Function Description



The following will describe the overall functions. And four sections will be included: Info, Setting, Upgrade, EDID and Tools.

**3.1 Info:** Show information and features.

**3.2 Setting:** In this section, users can set up port connection, enable or disable audio/video separately, set scan time rate, etc. By default, the system will automatically apply source 1 routing to all displays as shown below.



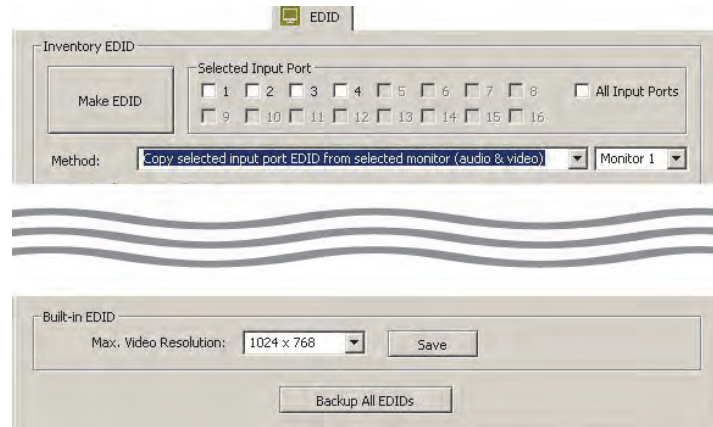
3.2	Option	Function
1	Auto apply	Automatically apply settings. It is not suggested checking this item for it may result in loading down the system.
2	Apply	To bring the settings into action.
3	Get	Detect and show the current setting status for users may operate the unit via front panel push button or IR remote controller
4	EQ	Adjust the video equalization (sharpness)
5	Source Icon	Double-click the icon and there will be a pop-up menu. Users can change the picture (.ico file with 32x32 or 36x36 pixel) and give an alias for the source or display.
6	Display Icon*	<p>◆ Linking:</p> <p>Click one of the source icons and then click "Apply" to bring the settings into action.</p>
7	Video On	Check/ uncheck the item to turn on/off the display

Here's the comparison table of the monitor port number on GUI and the output port on the Unit.

display 1	Local Output Port
display 2	Remote OUT 1
display 3	Remote OUT 2
display 4	Remote OUT 3
display 5	Remote OUT 4

## Advanced Operation

**3.3 EDID:** Users can not only select the desired ports to copy EDID via multiple methods, but also use built-in EDID for all connected monitors.

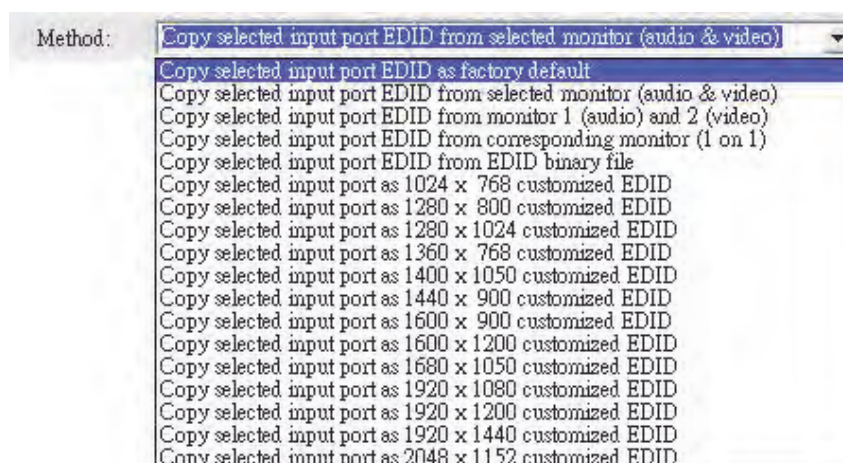


3.3	Option		Function
1	Inventory EDID	Make EDID	Copy EDID to the selected input port(s).
2		Method	Multiple methods of EDID copy are provided. See the diagram below.
3	Built-In EDID (optional)		<p>All connected monitors use the selected built-in EDID; resolution ranging from 1024 x 768 to 2048 x 1152.</p> <p>After saving, it is required to reboot the system (click “Reboot The Selected Device” icon on the top toolbar).</p> <div><div>Actions</div><div><div>Detect Device</div><div>Ctrl+T</div></div><div><div>Connect The Selected Device</div><div>Ctrl+C</div></div><div><div>Disconnect The Selected Device</div><div>Ctrl+D</div></div><div><div>Reboot The Selected Device</div><div>Ctrl+R</div></div></div>



Here's the comparison table of the monitor port number on GUI and the output port on the Unit.

Monitor 1	Local Output Port
Monitor 2	Remote OUT 1
Monitor 3	Remote OUT 2
Monitor 4	Remote OUT 3
Monitor 5	Remote OUT 4



Method	Operation Steps
Copy selected input port EDID as factory default	<p><b>Step 1.</b> Check the desired input port(s) or check <i>All input ports</i> to select all.</p> <p><b>Step 2.</b> Click <i>Make EDID</i>.</p>
Copy selected input port EDID from selected monitor (audio & video)	<p><b>Step 1.</b> Check the desired input port.</p> <p><b>Step 2.</b> Select the desired <i>Monitor</i> (next to <i>Method</i>)</p> <p><b>Step 3.</b> Click <i>Make EDID</i>.</p>
Copy selected input port EDID from corresponding monitor (1 on 1)	<p><b>Step 1.</b> Check the desired input port(s) or check <i>All input ports</i> to select all.</p> <p><b>Step 2.</b> Click <i>Make EDID</i>.</p>
Copy selected input port EDID from *EDID binary file	<p>*EDID binary file: A file that store EDID information</p> <p><b>Step 1.</b> Check the desired input port(s) or check <i>All input ports</i> to select all.</p> <p><b>Step 2.</b> Click <i>Make EDID</i>.</p> <p><b>Step 3.</b> Select the desired binary file.</p>
Copy selected input port as *1024 x 768 customized EDID	<p>*Customized EDID: selectable resolution ranging from 1024 x 768 to 2048 x 1152</p> <p><b>Step 1.</b> Check the desired input port(s) or check <i>All input ports</i> to select all.</p> <p><b>Step 2.</b> Click <i>Make EDID</i>.</p>

**3.4 Tools:** Allow users to set up Remote Controller ID. Up to 16 units can share one remote controller. Therefore, it is designed to name the units for fear of confusion on receiving commands simultaneously.

## ◆ Changing Source/Display Icon:

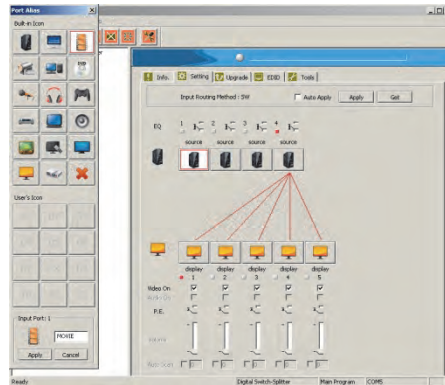
Double-click the source/display icon and there will be a pop-up window. Users may change the icon and name the selected source or display.

**1. Name the display/source:** click the corresponding icon and insert any name you want.

### **2. Change the icon**

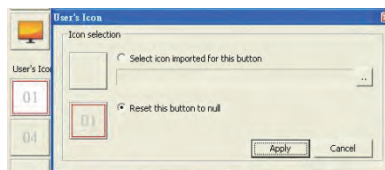
a) Built-in Icons:

The GUI application provides commonly used icons (*Built-in Icons*) as shown on the upside of pop-up window.



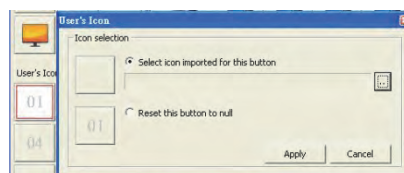
b) User's Icon - Reset the button to null

As shown on the downside of pop-up window; double-click the icon (01-12) and following by one dialogue box. Click this option to set the icon as blank.



c) User's Icon - Import icon file (.ico) for this button

As shown on the downside of pop-up window; double-click the icon (01-12) and following by one dialogue box. You may upload your own icon but it should be .ico file with 32x32 or 36x36 pix.



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