

ANI-28UHDDA

4x1 Multi-Input to HDBT Live Video Streaming
Transmitter w/ Recording





SAFETY INFORMATION



1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the "ON" position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment.
 - C. The equipment has been exposed to rain.
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance.
 - E. The equipment has been dropped, or the enclosure damaged.

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DEAR CUSTOMER

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- ANI-41STREAM 4x1 Multi-Input to HDBT Live Video Streaming Transmitter w/ Recording
- 24V/3.75A DC Power Adapter
- AC Power Cord
- (2) 5-pin Terminal Block
- (2) 4-pin Terminal Block
- IR Blaster Cable
- IR Extender Cable
- Users Guide

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use.

We assume no responsibility for any inaccuracies that may be contained in this document. We make no commitment to update or to keep current the information contained in this document.

We reserve the right to make improvements to this document and/or product at any time and without notice.

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 Version 1.0 APR 2019

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INTRODUCTION

The ANI-41STREAM Video Streaming Transmitter with Recording makes online broadcasting of live video, with a locally stored archive, an easy and simple process. Video sources from cameras, PCs, video game consoles, etc. are a breeze to connect for immediate broadcast and recording. Video content up to 4K UHD (4K@60Hz, 4:2:0, 8-bit) is supported and is automatically scaled to a resolution that is more appropriate for efficient streaming. In addition to the standard HDMI input, DisplayPort, USB-C and VGA (with paired audio) inputs are also supported as sources. Along with the streaming and recording functionality, an HDBaseT™ output is provided for local, or long distance (up to 70m at 1080p when using CAT6A), monitoring of the selected input source when connected to a compatible receiver.

All video content is encoded and streamed with minimal latency and high quality making it ideal for live streaming events to a variety of popular online streaming services or within the local network. The video may also be recorded locally (via USB thumb drive) or to a local network drive while it is being streamed.

A trigger input interface is also provided to allow the easy addition of a remote control keypad, or other trigger-supporting products, which can be installed within a podium or within a table in a conference room or classroom. This interface can allow the user to activate functions with the simple press of a button.

Comprehensive EDID management provides improved compatibility with different sink devices. The intuitive WebGUI provides easy control of your live event stream including source selection, resolution, bitrate and more. This unit can be controlled and configured via front panel buttons, an intuitive WebGUI, Triggers, RS-232, or Telnet. This unit comes with a 3 year warranty.

FEATURES

- (4) inputs (HDMI, DisplayPort, USB-C, and VGA)
- (1) HDBaseT™ output
- Digital inputs are HDCP 1.x and HDCP 2.2 compliant
- **Note:** *HDCP encrypted sources cannot be streamed over the Internet or recorded and will be blacked out*
- HDMI, DisplayPort, and USB-C inputs support resolutions up to 4K UHD (4K@60Hz, 4:2:0, 8-bit)
- VGA input supports resolutions up to 1080p@60Hz and is paired with an analog stereo audio input
- HDBaseT™ output supports resolutions up to 4K UHD (4K@60Hz, 4:2:0, 8-bit)
- Advanced H.264 video streaming and recording is provided at QVGA (320x240), VGA (640x480), 720p, or 1080p at up to 60fps
- Recorded video can be stored on a locally inserted USB thumb drive, or to a designated network drive
- Can act as a streaming server (using RTP/RTSP protocols) or streaming client (using the RTMP protocol)
- Trigger Control Keypad support for easy, single-button, function activation (Optional)
- Supports scheduled recording with an internet updated calendar
- Supports text overlays over live broadcasts
- Integrated downscaling function will convert UHD video content (up to 4K@60Hz) down to 1080p or lower for live video broadcast and recording
- Generates (4) simultaneous streams from the same video source (1080p@60fps, 1080p@30fps, VGA@30fps, QVGA@30fps) for easy system integration at multiple bandwidth targets
- Supports automatic input switching
- Advanced EDID management including Internal, External & User configured EDID selections
- Control via front panel buttons, WebGUI, Triggers, Telnet, and RS-232

APPLICATIONS

- Webcasting
- Social Media Broadcasting
- Live Event Streaming
- Video on Demand Streaming
- Live recording and storage

SPECIFICATIONS

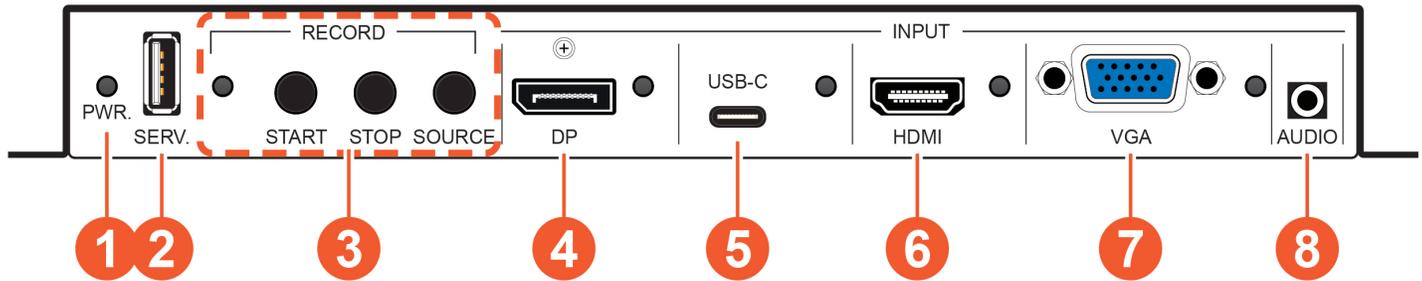
- **HDMI Bandwidth:** 10.2Gbps
- **DisplayPort Bandwidth:** 10.2Gbps
- **USB-C Bandwidth:** 10.2Gbps
- **VGA Bandwidth:** 165MHz
- **HDBaseT™ Bandwidth:** 10.2Gbps
- **Input Ports:**
 - HDMI (Type-A)
 - DisplayPort
 - USB (Type-C)
 - VGA (HD-15)
 - Analog Stereo (3.5mm)
- **Output Port:** HDBaseT™ (RJ-45)
- **Control/Streaming Port:** LAN (RJ-45)
- **Pass-through Ports:**
 - IR Extender (3.5mm)
 - IR Blaster (3.5mm)
 - RS-232 (4-pin Terminal Block)
- **Control Ports:**
 - RS-232 (4-pin Terminal Block)
 - Trigger (10-pin Terminal Block)
- **Service Port:** USB 2.0 (Type-A)
- **IR Frequency:** 30 ~ 50kHz (30 ~ 60kHz under ideal conditions)
- **Baud Rate:** 19200 (Control) Up to 115200 (Bypass)
- **Power Supply:** 24V/3.75A DC (US/EU standards, CE/FCC/UL certified)
- **ESD Protection (HBM):**
 - ±8kV (Air Discharge)
 - ±4kV (Contact Discharge)
- **Dimensions (WxHxD):** 9.1 x 1 x 5.9 in (231.5x25x150mm) [Case Only] / 9.1 x 1 x 6.1 in (231.5x25x158mm) [All Inclusive]
- **Weight:** 2 lbs / 909g
- **Chassis Material:** Metal (Steel)
- **Chassis Color:** Black
- **Operating Temperature:** 0°C – 40°C/32°F – 104°F
- **Storage Temperature:** -20°C – 60°C/-4°F – 140°F
- **Relative Humidity:** 20 – 90% RH (Non-condensing)
- **Power Consumption:** 39.84W

As product improvements are continuous, specifications are subject to change without notice.

SYSTEM REQUIREMENTS

- HDMI, VGA, DisplayPort or USB-C source equipment such as a media player, video game console, PC, or video camera.
- Available streaming server destination such as YouTube or Facebook or a recording storage target such as USB thumb drive or NAS.
- A compatible HDBaseT™ receiver with PoH(PD) support is recommended.
- The use of Premium High Speed HDMI cables, and industry standard CAT6, CAT6A or CAT7, is highly recommended.
- Video streaming preview support within the WebGUI requires the use of the Chrome, Internet Explorer or Safari browser with the appropriate plugins (VLC for IE and Safari or VXG Player for Chrome) installed.
Note: *The Firefox browser does not currently support the WebGUI's video streaming preview window.*
- To view RTSP streams directly on the local network, RTSP stream compatible video player software (such as VLC Media Player or PotPlayer) must be used.

FRONT PANEL



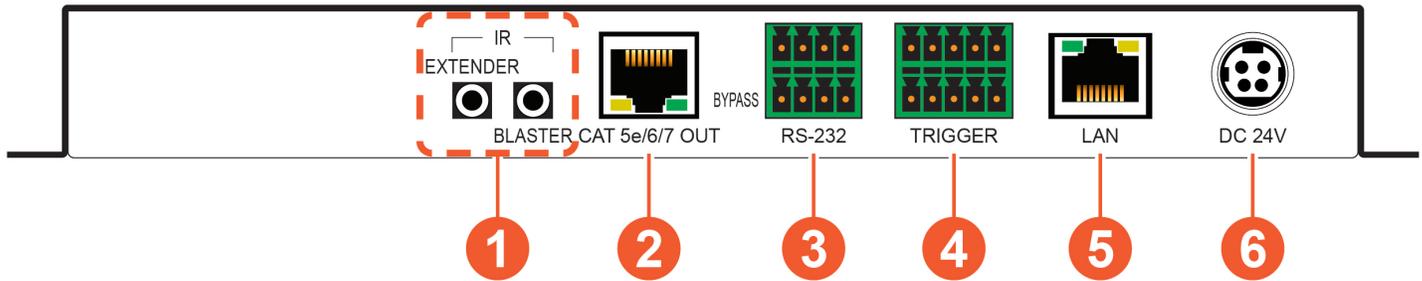
- 1 PWR. LED:** This LED will illuminate to indicate the unit is on and receiving power.
- 2 SERV. Port:** Attach a standard USB thumb drive or external hard drive for storage of recorded video. (Optional)
Note: Storage media must be formatted as FAT32 or exFAT. Video files are stored in *.mp4 format.
- 3 RECORD LED:** This LED will blink while video recording is active.

RECORD START BUTTON: Press this button to immediately start recording to the designated recording target.

RECORD STOP BUTTON: Press this button to immediately stop any current recording session.

RECORD SOURCE BUTTON: Press this button to sequentially switch through the available inputs.
Note: Changing the input source will cause the video stream to restart. Connected stream targets may need to be restarted or reconnected.
- 4 DP INPUT PORT & LED:** Connect to DisplayPort source equipment such as a PC or laptop. The LED will illuminate amber when a source is detected and green when the source is selected.
- 5 USB-C INPUT PORT & LED:** Connect to USB Type-C video source equipment such as a PC or laptop. The LED will illuminate amber when a source is detected and green when the source is selected.
Note: Not all devices with USB Type-C ports can support video output. Please verify that the device supports video output from the USB Type-C port before connecting it.
- 6 HDMI INPUT PORT & LED:** Connect to HDMI source equipment such as a media player, game console, or set-top box. The LED will illuminate amber when a source is detected and green when the source is selected.
- 7 VGA INPUT PORT & LED:** Connect to VGA source equipment such as a PC or laptop. The LED will illuminate amber when a source is detected and green when the source is selected.
- 8 AUDIO INPUT PORT:** Connect to the stereo analog output of the device connected to the VGA input port.
Note: Audio from this port is embedded with the VGA video source.

BACK PANEL



1 IR EXTENDER PORT: Connect to an IR Extender to receive IR control signals and extend them to devices connected to the other end of the HDBaseT™ connection. Ensure that the remote being used is within direct line-of-sight of the IR Extender.

IR BLASTER PORT: Connect to an IR Blaster to transmit IR signals from the other end of the HDBaseT™ connection to devices within direct line-of-sight of the IR Blaster.

2 CAT5E/6/7 OUT PORT: Connect to a compatible HDBaseT™ Receiver with a single CAT5e/6/7 cable for transmission of all data signals. PoH will also be supplied to a connected compatible PD Receiver.

3 RS-232 4-PIN TERMINAL BLOCK (TOP): Connect directly to a PC or laptop, or other serial control device with a 3 or 4-pin adapter cable (as appropriate) to send RS-232 commands to control the unit. **RS-232 BYPASS 4-pin Terminal Block (Bottom):** Connect to a PC, laptop, or serial controllable device with a 3-pin adapter cable for the extension of RS-232 signals between both ends of the HDBaseT™ connection.

4 TRIGGER 10-PIN TERMINAL BLOCK: Connect to the Trigger Control Keypad (OPTIONAL) or any device with trigger switch functionality to control assigned functions of the unit.

Note: A minimum of 5V DC is required to activate a trigger.

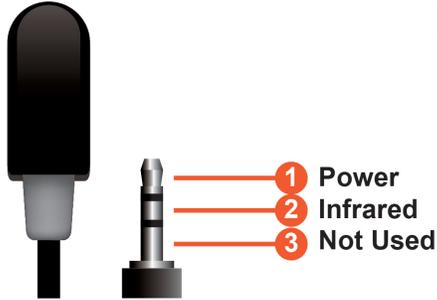
5 LAN PORT: Connect to a network switch or router for transmission and distribution of streamed video as well as to control the unit via Telnet or WebGUI.

Note: The maximum number of simultaneous stream connections is limited by available network bandwidth and the unit's CPU load.

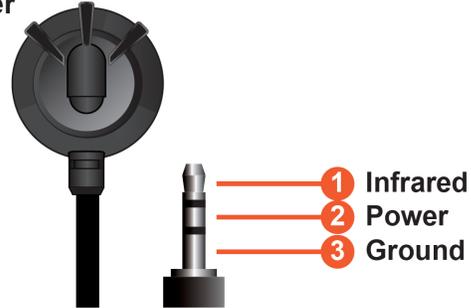
6 DC 24V PORT: Plug the 24V DC power adapter into this port and connect it to an AC wall outlet for power.

IR CABLE PINOUTS

IR Blaster Cable



IR Extender Cable

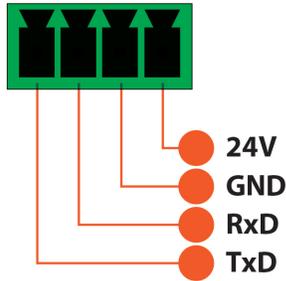


RS-232 PINOUT & DEFAULTS

Serial Port Default Settings (Unit Control)	
Baud Rate	19200
Data Bits	8
Parity Bits	None
Stop Bits 1	1
Flow Control	None

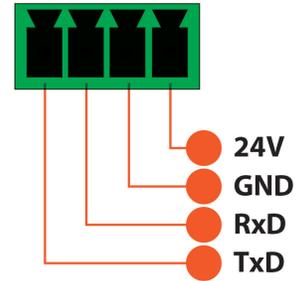
RS-232 PORT 1 (UNIT CONTROL)

4-pin Terminal Block



RS-232 PORT 2 (BYPASS)

4-pin Terminal Block



DEVICE DISCOVERY

Please obtain the “**Device Discovery**” software from your authorized dealer and save it in a directory where you can easily find it.

Connect the unit and your PC/Laptop to the same active network and execute the “**Device Discovery**” software. Click on “**Find Devices on Network**” and a list of devices connected to the local network will show up indicating their current IP address.

Note: The unit’s default IP address is 192.168.1.50.

Find Devices on Network

Product Name	Description	IP Address	MAC Address

By clicking on one of the listed devices you will be presented with the network details of that particular device.

Product ID

Product Name

MAC Address: 00:00:00:00:00:00

IP Address:

Subnet Mask:

Gateway IP:

DNS:

IP Mode: Static ▼

Web GUI Port: Static

Telnet Port: DHCP

S / N:

Firmware Version

Hardware Version

Description

Web GUI: [Web GUI](#)

1. IP Mode: If you choose, you can alter the static IP network settings for the device, or switch the unit into DHCP mode to automatically obtain proper network settings from a local DHCP server. To switch to DHCP mode, please select DHCP from the IP mode drop-down, then click “**Save**” followed by “**Reboot**”.

2. WebGUI Hotkey: Once you are satisfied with the network settings, you may use them to connect via Telnet or WebGUI. The network information window provides a convenient link to launch the WebGUI directly.

WEBGUI OVERVIEW

Login

Username:

Password:

After connecting to the WebGUI’s address in a web browser, the login screen will appear.

Please enter the appropriate user name and password then click “**Submit**” to log in.

Note:The default user name and password is “**admin**”.

On the left side of the browser you will see the following menu tabs where all primary functions of the unit are controllable via the built in WebGUI. The individual functions will be introduced in the following sections.

Clicking the red “**Logout**” tab will automatically log the currently connected user out of the WebGUI and return to login page.

- Live
- Video Switch
- Edid Setting
- Record Setting
- Time Setting
- Trigger Setting
- User Config
- System Setting
- Admin - Logout

LIVE TAB

This tab provides viewing access to the first local video stream channel (of 4 channels total) generated by the unit. The video source can be selected here and the stream resolution, framerate and bitrate is also displayed. At the bottom of the page, a connection address for local video stream channel 1 is displayed in the format: **"rtsp://xxx.xxx.xxx.xxx/live/ch1/h264_aac"** (xxx.xxx.xxx.xxx = the unit's current IP address). When 3rd party video player software with RTSP streaming support is used to view streams from this unit, this is the URL that should be used to connect. To view streaming channels 2~4, change "ch1" in the address to **"ch2"**, **"ch3"**, or **"ch4"**, as appropriate.

Note: The Channel 1 configuration is set on the **"Record Setting"** tab. Channels 2~4 contain the same video content presented at different streaming resolutions. Channel 2 is 1920x1080@30fps, Channel 3 is 640x480@30fps, and Channel 4 is 320x240@30fps.

1. Source Select: Select the video input (DisplayPort, USB-C, HDMI or VGA) to stream.

Note: Changing the input here will change it globally across the unit.

2. Video Codec: Indicates the video codec used for the video stream.

Note: Currently, only H.264 is supported.

3. Maximum Resolution: Displays the current maximum resolution for streaming channel 1.

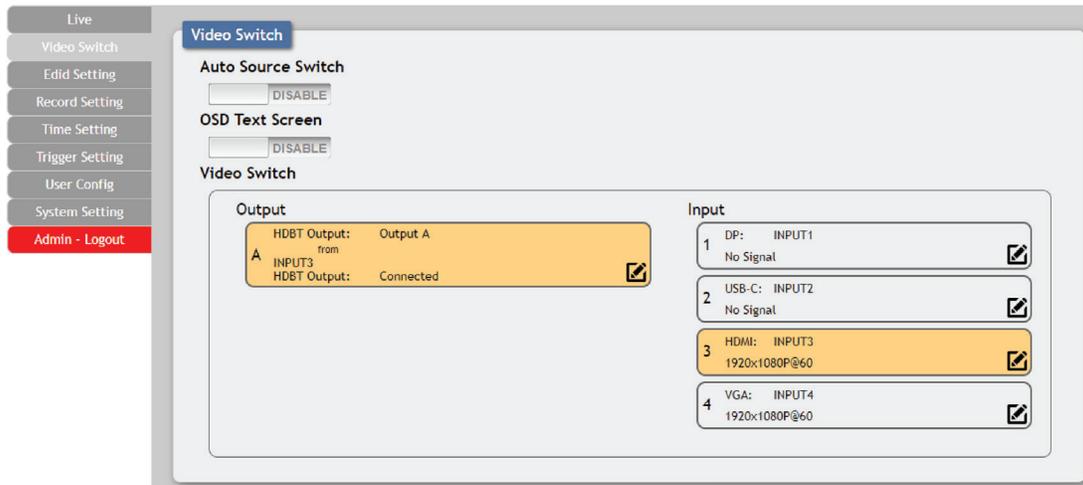
4. Maximum Framerate: Displays the current maximum framerate for streaming channel 1.

5. Maximum Quality: Displays the current maximum bitrate for streaming channel 1.

6. Video Window: This video window displays the content of streaming channel 1 and provides the details of a direct connection address that can be used to connect to this stream using 3rd party video player software such as VLC or PotPlayer.

Note: Video streaming preview support within the WebGUI requires the use of the Chrome, Internet Explorer or Safari browser with the appropriate plugins (VLC for IE and Safari or VXG Player for Chrome) installed.

VIDEO SWITCH TAB



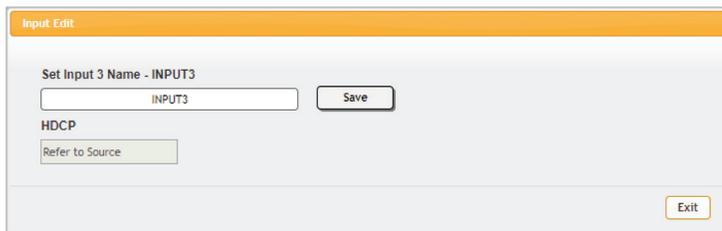
This tab provides input routing control as well as control over input and output names, and OSD Text settings.

1. Auto Source Switch: Enable or disable the automatic input switching feature of this unit. When enabled, the unit will automatically switch to the most recently connected/detected input. If the current input’s signal is lost, the unit will automatically switch to the other input.

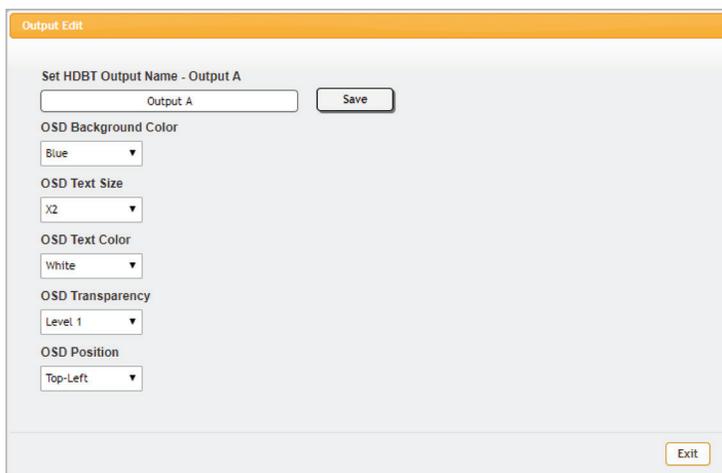
2. OSD Text Screen: The OSD Text Screen can be used when the user wants to display a simple text message on screen while the video plays. It may be enabled or disabled here.

Note: The text that will be displayed is the current output name text.

3. Video Switch: To assign a new video route, please click the output button and then click on the button of the preferred input port to route. As you select each button they will change their color to orange. The new route will become active immediately and the routing information displayed on the buttons will change accordingly.

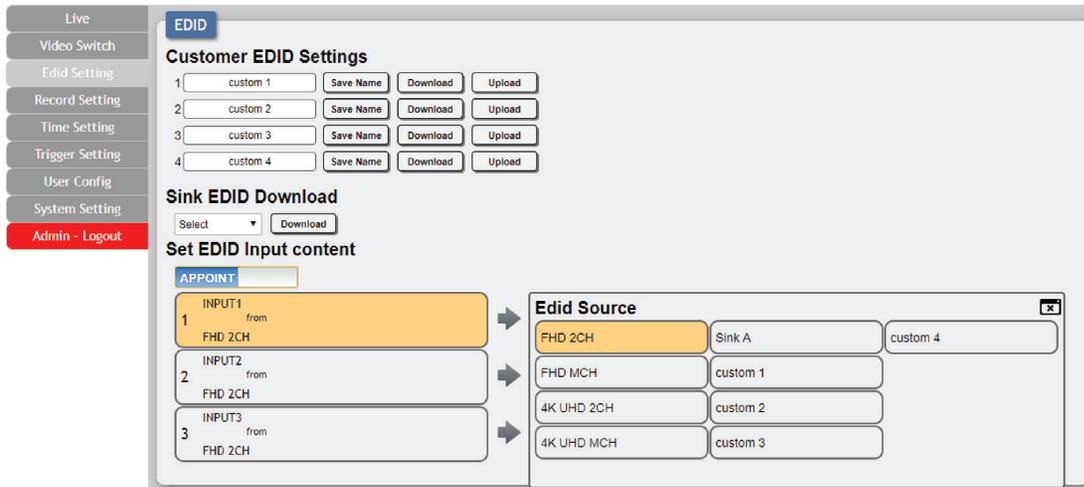


- **Output:** Click on this button to begin routing selection as detailed above. Click the Edit icon () to open the Output Edit window and modify additional output settings.
- **Input:** Rename the input or view the current HDCP behavior (Digital inputs only) by clicking on the Edit icon () to open the editing window. Click on “Save” to confirm and activate any changes made to a name.



- **4. Output Edit:** This window is opened after clicking on the Edit icon () within the output button and provides options to rename the output, and configure the settings for the OSD Text Screen. Click on “Save” to confirm and activate any changes made to the name. All other changes are immediate.

EDID SETTING TAB



This tab provides the option of four standard EDIDs, one sink sourced EDID and four customer uploaded EDIDs that can be assigned to the digital input ports. The names of the four customer uploaded EDIDs can be changed if desired.

Note: The EDID used by the VGA port is fixed, and cannot be changed.

1. Customer EDID Settings:

- **Save Name:** To change the name of a custom EDID, type the new name in the space provided, then click on the “Save Name” button.
- **Download:** To save an existing custom EDID to your local PC please press the “Download” button next to the EDID you would like to save. Depending on your browser settings you will either be asked where to save the downloaded file, or the file will be transferred to the default download location on your PC.
- **Upload:** To upload a custom EDID, please click the “Upload” button next to the Customer EDID Settings item you would like to change. An EDID Upload window will appear, allowing you to locate and upload the preferred EDID file (*.bin format) from a local PC. Once the correct file has been selected, please click the “Upload” button in the window, and the file will be transferred to the unit.

2. Sink EDID Download: To save the EDID from the connected HDBaseT™ display to your local PC, select the sink from the dropdown list then press the “Download” button. Depending on your browser settings you will either be asked where to save the downloaded file, or the file will be transferred to the default download location on your PC.

3. Set EDID Input Content: Click on the switch select how to assign EDIDs to the unit’s inputs (Appoint/All). Selecting “Appoint” allows for a different EDID to be assigned to each input, selecting “All” allows for a single EDID to be assigned to all inputs. After making the mode selection, click on the input button to open the EDID Source selection window. Select the new EDID source to use, from the choices on the right, and the change will occur immediately.

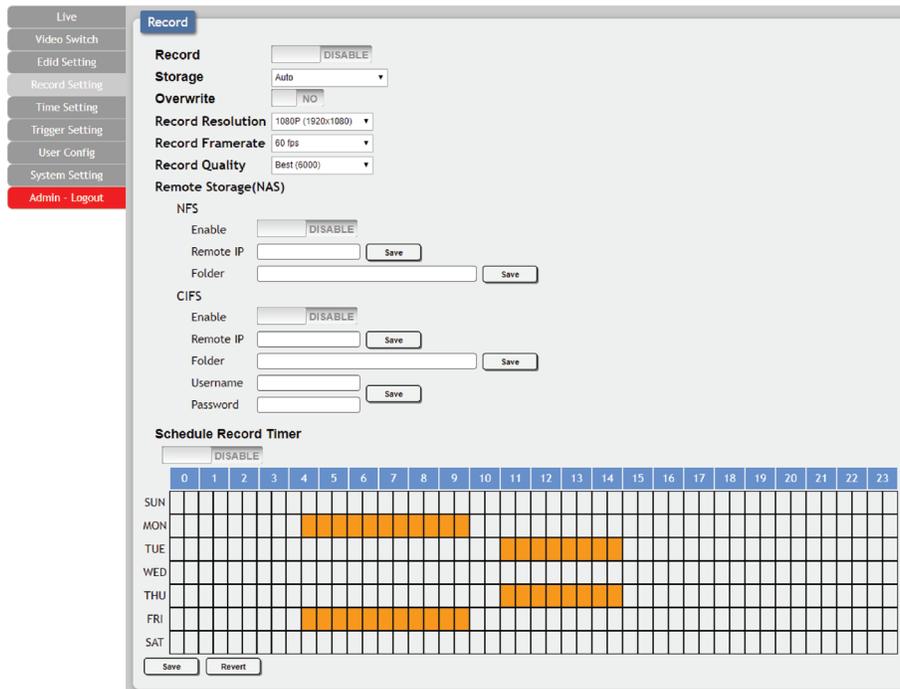
Note: In most cases, assigning a new EDID to an input will cause the affected input to briefly blink out while the source adapts to the new information.

This unit provides the following 4 default EDIDs:

Unit’s Default EDIDs	
FHD 2CH	1920x1080p@60Hz (4.95Gbps) & 8-bit color, LPCM 2.0
FHD MCH	1920x1080p@60Hz (4.95Gbps) & 8-bit color, LPCM 7.1 & Bitstream
4K UHD 2CH	3840x2160p@30Hz (10.2Gbps) & Deep Color (8/10/12-bit), LPCM 2.0
4K UHD MCH	3840x2160p@30Hz (10.2Gbps) & Deep Color (8/10/12-bit), LPCM 7.1 & Bitstream

Note: In some rare cases it is possible for custom or external EDIDs to cause compatibility issues with certain sources. If this happens, it is recommended to switch to one of the 4 default EDIDs for maximum compatibility.

RECORD SETTING TAB



This tab provides access to the settings and controls for configuring the channel 1 stream (the same stream viewed on the “Live” tab) and making a recording of it to a local or network storage location. When recording is enabled, the channel 1 video stream is saved as a *.mp4 file, encoded with the H.264 codec, to one of three possible target destinations: USB storage, network storage using NFS, or network storage using CIFS. The file will be placed within an automatically named folder structure based on the current date and time of the recording to facilitate easy sorting and file management. It is also possible to set up automatic daily recording times based on a repeating weekly schedule structure.

1. Record: Enable or disable recording the channel 1 video stream. When enabled, recording will begin immediately to the selected storage location.

Note: *HDCP encrypted sources cannot be recorded.*

2. Storage: Use the drop-down to select the storage target to use when recording. Available choices are: Auto, USB (USB storage), NFS (NFS based network storage), and CIFS (CIFS based network storage). Selecting “Auto” will use the first available valid storage location using the following priority order: **NFS > CIFS > USB**

3. Overwrite: Enables or disables the file overwrite function. When enabled, the unit will automatically delete older recordings, when space runs out on the selected storage location, to make room for new recordings.

4. Record Resolution: Select the maximum resolution to use for streaming channel 1. Available resolutions are: 1080p(1920x1080), 720p(1280x720), VGA(640x480), or QVGA(320x240).

Note: *The recording resolution will not exceed the original source’s resolution even if a higher maximum is selected.*

5. Record Framerate: Select the framerate to use for streaming channel 1. Available framerates are: 25, 30, 50, or 60 frames per second.

6. Record Quality: Select the target bitrate for streaming channel 1. Available bitrates are: Best (6000Kbps), High (3000Kbps), or Normal (2000Kbps).

7. Remote Storage (NAS) NFS: This section provides a way to configure access to a NAS (Network Attached Storage) device using the NFS protocol.

- **Enable:** Enable or disable access to the defined NFS based network storage server.
- **Remote IP:** Enter the IP address of the target NFS based NAS device. After entering the information, press the “Save” button.

- **Folder:** Enter a valid share name on the target server. The share name cannot contain spaces or special characters. This is where the recording folder structure and video files will be created. After entering the information, press the **“Save”** button.

Note: The target folder on the NFS server must, at a minimum, provide anonymous read, write and delete permissions.

8. Remote Storage (NAS) CIFS: This section provides a way to configure access to a NAS (Network Attached Storage) device using the CIFS protocol.

- **Enable:** Enable or disable access to the defined CIFS based network storage server.
- **Remote IP:** Enter the IP address of the target CIFS based NAS device. After entering the information, press the **“Save”** button.
- **Folder:** Enter a valid share name on the target server. The share name cannot contain spaces or special characters. This is where the recording folder structure and video files will be created. After entering the information, press the **“Save”** button.

Note: The target folder on the CIFS server must, at a minimum, provide read, write and delete permissions for the designated user.

- **Username/Password:** Enter the user name and password required for access to the specified server. After entering both items, press the **“Save”** button.

9. Schedule Record Timer: Enable or disable the scheduled time recording function. Each hour of each day is divided into two half-hour blocks. Currently selected recording times are indicated by orange blocks. Gray blocks indicate that no recording is currently scheduled. Blocks may be activated or deactivated by clicking on them. To easily select multiple blocks, you may click and drag across the preferred range. After setting the preferred recording blocks, press the **“Save”** button. To undo changes and return to the previous schedule configuration, press the **“Revert”** button.

TIME SETTING TAB

The Time Settings tab provides a way to set the system’s time, date, and time zone. The system time can be set manually, or automatically using a defined SNTP server. If your country uses DST (Daylight Saving Time) you can enable or disable it here and configure the start and end times/dates so that your scheduled events will always occur at the correct times throughout the year.

1. SNTP Configuration:

- **GMT:** Select the preferred time zone from the options in the dropdown.
- **NTP Server:** Enter the address of the network time server to use for automatic time and date configuration. Click the **“Save”** button to set and store the address in the unit. Click the **“Sync”** button to force synchronization of the unit’s time and date with the defined server.

Note: Time synchronization occurs automatically when the unit is first powered on, and every 24 hours afterwards, if an NTP server has already been defined. Synchronization requires a live connection to the internet.

- **Server Time:** Shows the unit’s current time and date.

2. Time Configuration:

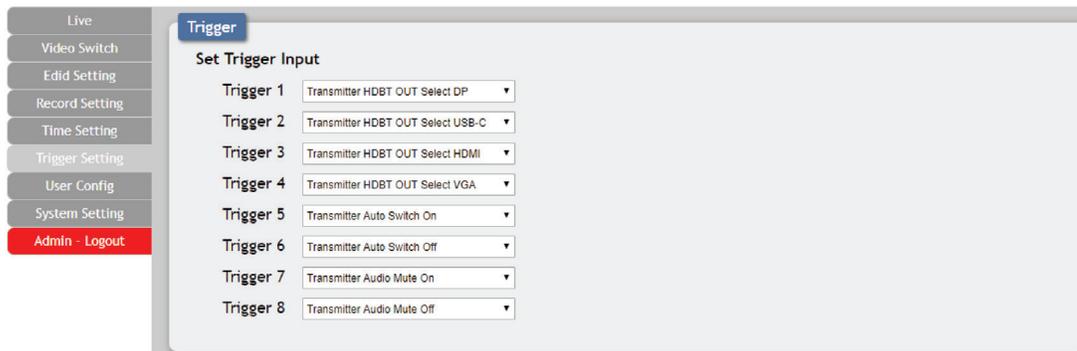
- **Date & Time:** The unit’s time and date can be manually configured here if an internet connection, or NTP server is not available. Click on the calendar icon (📅) to open the time and date configuration screen and select the preferred values. After entering a new time and date, click the **“Save”** button to store it in the unit and start the clock running.

3. Daylight Saving Time Configuration: Enable or disable the use of DST adjustments for the unit’s time.

Note: Enabling Daylight Saving Time while outside the configured DST range will result in no change to the current time.

- **Start Time:** Set the month, week, day and time for the start of DST in the current time zone.
- **End Time:** Set the month, week, day and time for the end of DST in the current time zone.
- **Adjust Time:** Set the amount of time to add when DST is active.

TRIGGER SETTING TAB



This tab allows user to define the action taken when any of the 8 trigger pins within the Trigger Terminal Block are activated.

1. Set Trigger Input: Use the dropdown next to each Trigger (1~8) to assign an action to perform when that trigger is activated.

AVAILABLE TRIGGER ACTIONS
Transmitter HDBT OUT Select DP
Transmitter HDBT OUT Select USB-C
Transmitter HDBT OUT Select HDMI
Transmitter HDBT OUT Select VGA
Transmitter Auto Switch On
Transmitter Auto Switch Off
Transmitter Audio Mute On
Transmitter Audio Mute Off
Transmitter Video Mute On
Transmitter Video Mute Off
Transmitter Record Start
Transmitter Record Stop
Transmitter Follow Output EDID

USER CONFIG TAB

The WebGUI and Telnet username/password are set on this page. Two management levels are available: “**Administrator**” and “**General User**”. The administrator username (“**admin**”) cannot be changed.

The “**Administrator**” user has access to all tabs and can change all settings. The “**General User**” only has access to the “**Live**” tab to allow easy remote video stream viewing.

SYSTEM SETTING TAB

This tab provides system information, network configuration options, system configuration backup/restore/reset, and firmware update functions.

1. Network: IP mode may be switched between Static IP or DHCP. In Static IP mode the IP, netmask and gateway addresses may be manually set. When in DHCP mode, the unit will attempt to connect to a local DHCP server and obtain IP, netmask and gateway addresses automatically. Please press “**Save**” after making any changes to the IP configuration or mode.

Note: The unit’s default IP address is 192.168.1.50. If the IP address is changed then the IP address required for WebGUI/Telnet access will also change accordingly.

2. Web Timeout (Minute): Select the length of time to wait before logging the user out of the WebGUI due to inactivity. Available range is from 1 to 120 minutes, or disabled.

3. Download Current Configuration: The current system configuration, including routing and settings, may be saved as an XML file to a PC. Click the “**Download**” button to save the current system configuration to your local PC.

4. Restore Configuration: Previously saved system configurations may be restored from a saved XML file. Click the “**Choose File**” button to locate the saved XML file, then click the “**Restore**” button.

5. Reset to Default: Press the “**ALL Reset**” button to reset the unit to its factory default state. After the reset is complete, the unit will reboot automatically.

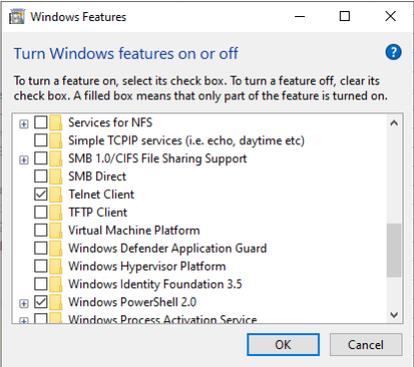
6. Firmware Upgrade: To update the unit’s firmware, click the “**Choose File**” button to open the file selection window and then select the firmware update file (*.bin format) located on your local PC. After selecting the file, click the “**Upgrade**” button to begin the firmware update process. After the upgrade is complete, the unit will reboot automatically.

7. Remote Firmware Upgrade: To update this unit’s firmware using our cloud based firmware server, click the “**Check for Update**” button and it will connect to the cloud server and automatically find the latest official firmware version. You will be told the new firmware version number, and you can then choose whether you wish to update to that version or not. After the upgrade is complete, the unit will reboot automatically.

Note: *The Remote Firmware Upgrade feature requires a live connection to the internet.*

TELNET CONTROL

Before attempting to use Telnet control, please ensure that both the unit and the PC/laptop are connected to the same active network.

To Access Telnet	
Windows 7	Click START , type “cmd” in the search field and press ENTER .
Windows 10	<ol style="list-style-type: none"> 1. Open “Control Panel”. 2. Open “Programs and Features”. 3. Select the “Turn Windows features on or off ” option.  <ol style="list-style-type: none"> 4. Check the “Telnet Client” box. 5. Click “OK”. A box will appear that says “Windows Features” and “Searching for required files”. When complete, the Telnet client should be installed in Windows.
In Mac OS X	Click Go > Applications > Utilities > Terminal .

Once in the Command Line Interface (CLI) type “telnet” followed by the IP address of the unit (and the port number if it is non-standard) and then hit “Enter”. This will connect us to the unit we wish to control.

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>telnet 192.168.5.80 23
```

Note 1: If the IP address is changed then the IP address required for Telnet access will also change accordingly.

Note 2: The default IP address is 192.168.1.50.

SERIAL & TELNET COMMANDS

COMMAND	DESCRIPTION AND PARAMETERS
HELP ↵	Show the full command list.
? ↵	Show the full command list.
SET FACTORY DEFAULT ↵	Reset the unit to the factory defaults.
SET FACTORY IPCONFIG DEFAULT ↵	Reset the unit's network settings to the factory defaults.
SET FACTORY OUT ROUTE DEFAULT ↵	Reset the unit's routing to the factory defaults.
SET POWER N1 ↵	Turn the unit on or place it into stand-by mode. Available values for N1 : 1 [Power on] 2 [Stand-by mode]
GET POWER ↵	Show the unit's current power state.

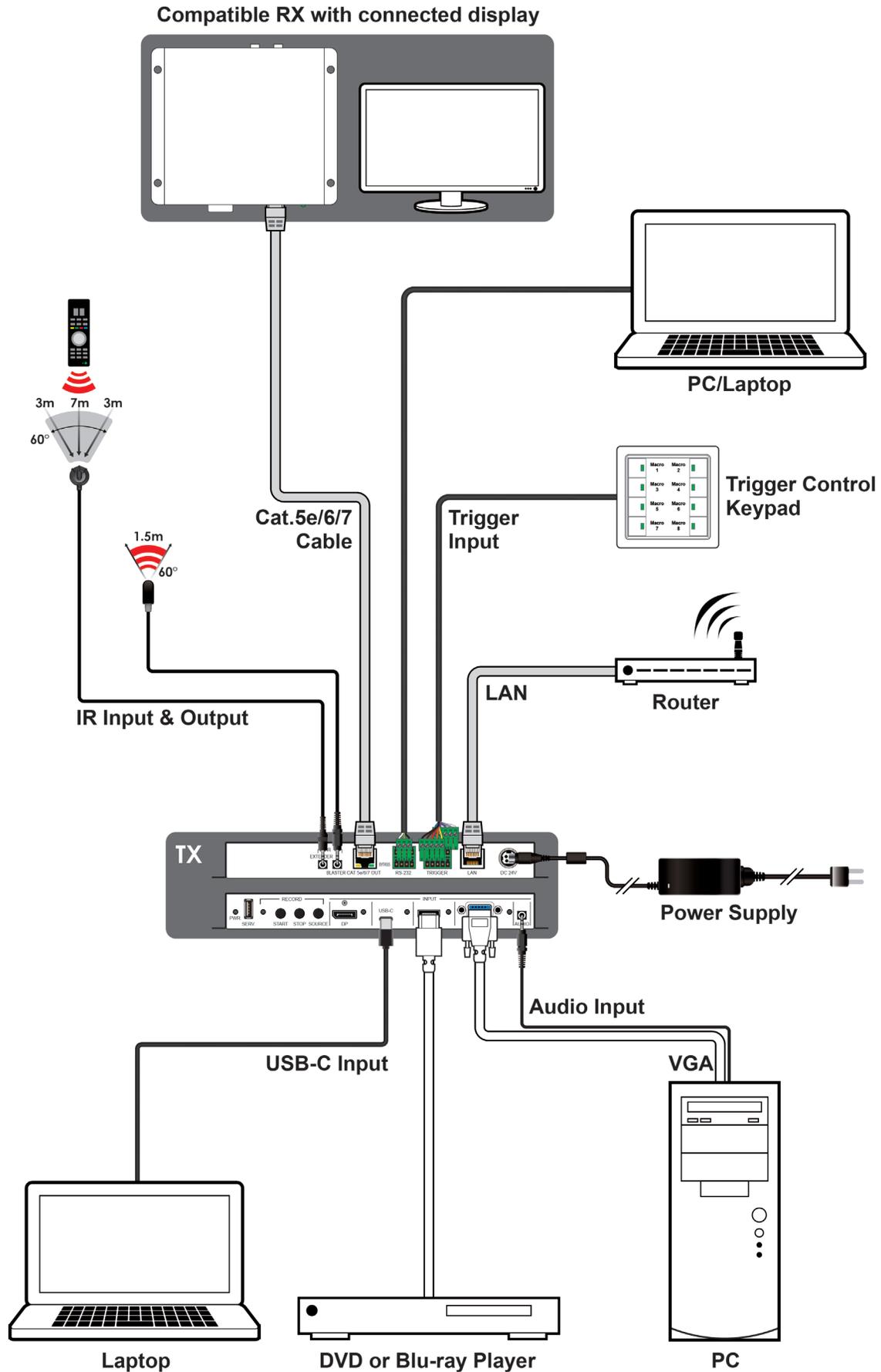
COMMAND	DESCRIPTION AND PARAMETERS
SET SYSTEM REBOOT ↵	Reboot the unit.
GET FW VER ↵	Show the unit's current firmware version.
GET COMMAND VER ↵	Show the unit's current command version.
GET MAC ADDR ↵	Show the unit's MAC address.
GET MODEL NAME ↵	Show the unit's model name.
GET MODEL TYPE ↵	Show the unit's product type.
GET USER CONFIG ↵	List the unit's current configuration information.
GET ALL COMMAND INDEX LIST ↵	Show the unit's full console command index list.
SET UART 1 RESET ↵	Reset the unit's RS-232 control port's settings to the factory defaults.
SET UART 1 BAUDRATE N1 ↵	Set the baud rate of the RS-232 control port. Available values for N1 : 4800 [4800 baud] 38400 [38400 baud] 9600 [9600 baud] 57600 [57600 baud] 19200 [19200 baud] 115200 [115200 baud]
GET UART 1 BAUDRATE ↵	Show the current baud rate of the RS-232 control port.
GET UART LIST ↵	List all available RS-232 ports.
SET IP MODE N1 ↵	Set the IP address assignment mode. Available values for N1 : 0 [Static IP] 1 [DHCP]
GET IP MODE ↵	Show the current IP address assignment mode.
GET IPCONFIG ↵	Show the unit's current IP configuration information.
SET IP ADDR N1 ↵	Set the unit's static IP address. N1 = X.X.X.X [X = 0~255]
GET IP ADDR ↵	Show the unit's current IP address.
SET NETMASK N1 ↵	Set the unit's static netmask. N1 = X.X.X.X [X = 0~255]
GET NETMASK ↵	Show the unit's current netmask.
SET GATEWAY N1 ↵	Set the unit's static gateway address. N1 = X.X.X.X [X = 0~255]
GET GATEWAY ↵	Show the unit's current gateway address.
GET TELNET MAXIMUM USER ↵	Show the maximum number of users allowed to connect simultaneously via Telnet.
SET WEBGUI PASSWORD N1 ↵	Set WebGUI administrator password. N1 = {Password} [16 characters max]
GET WEBGUI PASSWORD ↵	Show the current WebGUI administrator password.
GET HOSTNAME ↵	Show the unit's current hostname.
SET WEBGUI LOGIN TIMEOUT N1 ↵	Set the WebGUI inactivity timeout value. Available values for N1 : 0 [No timeout] 1~60 [Timeout in minutes]
GET WEBGUI LOGIN TIMEOUT ↵	Show the current WebGUI inactivity timeout value.

COMMAND	DESCRIPTION AND PARAMETERS
SET IN N1 NAME N2 ↵	Set the name of the specified input. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input] N2 = {Name} [8 characters max]
GET IN N1 NAME ↵	Show the current name of the specified input. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]
GET IN NAME LIST ↵	List the names of all inputs on the unit.
SET OUT A NAME N1 ↵	Set the name of the output. N1 = {Name} [8 characters max]
GET OUT A NAME ↵	Show the current name of the output.
GET OUT NAME LIST ↵	List the names of all outputs on the unit.
SET OUT AUTO MODE N1 ↵	Set the auto switching behavior of the unit. Available values for N1 : 0 [Disabled] 1 [Auto switch]
GET OUT AUTO MODE ↵	Show the current auto switching mode of the unit.
GET OUT AUTO MODE LIST ↵	List all available auto mode options.
GET IN N1 HACTIVE ↵	Show the horizontal active pixel value of the specified input's current video source. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]
GET IN N1 VACTIVE ↵	Show the vertical active pixel value of the specified input's current video source. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]
GET IN N1 REFRESH RATE ↵	Show the refresh rate of the specified input's current video source. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]
GET IN N1 INTERLACE ↵	Show the interlace state of the specified input's current video source. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]
GET IN N1 SYNC STATUS ↵	Show the current sync state of the specified input. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]
GET IN N1 TIMING ↵	Show the index number of the current resolution detected on the specified input. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]
GET IN N1 UNI TIMING ↵	Show the index number of the current resolution detected on the specified input. (Universal index number) Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]

COMMAND	DESCRIPTION AND PARAMETERS
GET IN N1 TYPE LIST ↵	List the port type of all inputs on the unit. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]
GET OUT A TYPE LIST ↵	List the port type of all outputs on the unit.
SET OUT A ROUTE N1 ↵	Select the specified input as the active source. Available values for N1 : 1 [DisplayPort input] 3 [HDMI input] 2 [USB-C input] 4 [VGA input]
GET OUT A ROUTE ↵	Show the currently selected input source.
GET IN PORT NUMBER ↵	Show the total number of inputs on the unit.
GET OUT PORT NUMBER ↵	Show the total number of outputs on the unit.
GET OUT A SYNC STATUS ↵	Show the current sync state of the specified output.
GET OUT TIMING LIST ↵	List all available output resolutions with their local index numbers.
GET OUT UNI TIMING LIST ↵	List all available output resolutions with their universal timing index numbers.
GET IN N1 HDCP STATUS ↵	Show the current HDCP status of the specified input. Available values for N1 : 1 [DisplayPort input] 2 [USB-C input] 3 [HDMI input]
GET OUT A HDCP STATUS ↵	Show the current HDCP status of the specified output.
GET OUT A HDCP ABILITY ↵	Show the HDCP compliance level of the display device connected to the specified output.
GET IN N1 HDCP ABILITY ↵	Show the HDCP compliance level of the source connected to the specified input. Available values for N1 : 1 [DisplayPort input] 2 [USB-C input] 3 [HDMI input]
SET OUT A OSD N1 ↵	Enable or disable the OSD banner. Available values for N1 : ON [Enabled] OFF [Disabled]
GET OUT A OSD ↵	Show the current OSD banner state.
SET OUT A OSD BANNER LOCATION N1 ↵	Set the OSD banner location. Available values for N1 : 0 [Left top] 1 [Center top] 2 [Right top]
GET OUT A OSD BANNER LOCATION ↵	Show the current OSD banner location.
SET OUT A BANNER FONT SIZE N1 ↵	Set the font size for the OSD banner. Available values for N1 : 1 [x1 size] 2 [x2 size] 3 [x4 size]
GET OUT A BANNER FONT SIZE ↵	Show the current font size for the OSD banner.

COMMAND	DESCRIPTION AND PARAMETERS
SET RECORD MEDIA PATH N1 ↵	Set the recording target media device. Available values for N1 : AUTO [Automatic selection] NFS [Record to NFS] USB [Record to USB] CIFS [Record to CIFS]
GET RECORD MEDIA PATH ↵	Show the currently selected recording target media device.
SET SCHEDULE RECORD MODE N1 ↵	Enable or disable scheduled recordings. Available values for N1 : ON [Enable scheduled recordings] OFF [Disable scheduled recordings]
GET SCHEDULE RECORD MODE ↵	Show the current state of scheduled recording support.
SET RECORD RESOLUTION N1 ↵	Set the resolution to use when recording (streaming channel 1). Available values for N1 : 320x240 [QVGA] 1920x720 [720p] 640x480 [VGA] 1920x1080 [1080p]
GET RECORD RESOLUTION ↵	Show the resolution used when recording (streaming channel 1).
SET RECORD BITRATE N1 ↵	Set the maximum bitrate (in Kbps) to use when recording (streaming channel 1). N1 = 1~6000 [Bitrate in Kbps]
GET RECORD BITRATE ↵	Show the current maximum bitrate (in Kbps) used when recording (streaming channel 1).
SET RECORD FRAMERATE N1 ↵	Set the frame rate to use when recording (streaming channel 1). N1 = 1~60 [Frames per second]
GET RECORD FRAMERATE ↵	Show the frame rate used when recording (streaming channel 1).

Note: Commands will not be executed unless followed by a carriage return. Commands are **NOT** case-sensitive.



VIDEO INPUTS

SUPPORTED RESOLUTIONS (HZ)	INPUT				SUPPORTED RESOLUTIONS (HZ)	INPUT			
	HDMI	DP	USB-C	VGA		HDMI	DP	USB-C	VGA
320x240@25/30/50/60	✓	✓	✓	✓	1600x900p@60RB	✓	✓	✓	x
720x400p@70/85	✓	✓	✓	✓	1600x1200p@60	✓	x	x	✓
640x480p@25/30/50	✓	✓	✓	✓	1680x1050p@60	✓	✓	✓	✓
640x480p@60/72/75/85	60	60	60	60	1920x1080i@50/60	x	x	x	x
720x480i@60	x	x	x	x	1920x1080p@24/25/30	✓	✓	✓	✓
720x480p@60	✓	✓	✓	✓	1920x1080p@50/60	✓	✓	✓	✓
720x576i@50	x	x	x	x	1920x1200p@60RB	x	x	x	x
720x576p@50	✓	✓	✓	✓	2560x1440p@60RB	x	x	x	x
800x600p@56/60/72/75/85	60	60	60	60	2560x1600p@60RB	x	x	x	x
848x480p@60	✓	✓	✓	✓	2048x1080p@24/25/30	x	x	x	x
1024x768p@60/70/75/85	60	60	60	60	2048x1080p@50/60	x	x	x	x
1152x864p@75	x	x	x	x	3840x2160p@24/25/30	✓	✓	✓	x
1280x720p@25/30	✓	✓	✓	✓	3840x2160p@50/60 (4:2:0)	✓	✓	✓	x
1280x720p@50/60	✓	✓	✓	✓	3840x2160p@24, HDR10	✓	✓	✓	x
1280x768p@60/75/85	60	60	60	60	3840x2160p@50/60 (4:2:0), HDR10	✓	✓	✓	x
1280x800p@60/75/85	60	60	60	60	3840x2160p@50/60	✓	✓	✓	x
1280x960p@60/85	60	60	60	60	4096x2160p@24/25/30	✓	✓	✓	x
1280x1024p@60/75/85	60	60	60	60	4096x2160p@50/60 (4:2:0)	✓	✓	✓	x
1360x768p@60	✓	✓	✓	x	4096x2160p@24, HDR10	✓	✓	✓	x
1366x768p@60	✓	✓	✓	✓	4096x2160p@50/60 (4:2:0), HDR10	✓	✓	✓	x
1400x1050p@60	x	x	x	x	4096x2160p@50/60	x	x	x	x
1440x900p@60/75	60	60	60	60					

Note: Commands will not be executed unless followed by a carriage return. Commands are **NOT** case-sensitive.

VIDEO OUTPUTS

SUPPORTED RESOLUTIONS (HZ)	OUTPUT		SUPPORTED RESOLUTIONS (HZ)	OUTPUT	
	HDBASET™	H.264 STREAM		HDBASET™	H.264 STREAM
320x240@25/30/50/60	✓	✓	1600x900p@60RB	✓	✓
720x400p@70/85	✓	x	1600x1200p@60	✓	x
640x480p@25/30/50	✓	✓	1680x1050p@60	✓	✓
640x480p@60/72/75/85	✓	60	1920x1080i@50/60	x	x
720x480i@60	✓	x	1920x1080p@24/25/30	✓	25/30
720x480p@60	✓	✓	1920x1080p@50/60	✓	✓
720x576i@50	✓	x	1920x1200p@60RB	✓	x
720x576p@50	✓	✓	2560x1440p@60RB	x	x
800x600p@56/60/72/75/85	✓	60	2560x1600p@60RB	x	x
848x480p@60	✓	✓	2048x1080p@24/25/30	✓	x
1024x768p@60/70/75/85	✓	60	2048x1080p@50/60	✓	x
1152x864p@75	✓	x	3840x2160p@24/25/30	✓	x
1280x720p@25/30	x	✓	3840x2160p@50/60 (4:2:0)	✓	x
1280x720p@50/60	✓	✓	3840x2160p@24, HDR10	x	x
1280x768p@60/75/85	✓	60	3840x2160p@50/60 (4:2:0), HDR10	x	x
1280x800p@60/75/85	✓	60	3840x2160p@50/60	x	x
1280x960p@60/85	✓	60	4096x2160p@24/25/30	✓	x
1280x1024p@60/75/85	✓	60	4096x2160p@50/60 (4:2:0)	✓	x
1360x768p@60	✓	✓	4096x2160p@24, HDR10	x	x
1366x768p@60	✓	✓	4096x2160p@50/60 (4:2:0), HDR10	x	x
1400x1050p@60	x	x	4096x2160p@50/60	x	x
1440x900p@60/75	60	60			

DIGITAL AUDIO

HDMI, DISPLAYPORT, USB-C INPUT / HDBASET™ OUTPUT	
LPCM	
Max Channels	8 Channels
Sampling Rate (kHz)	32, 44.1, 48, 88.2, 96, 176.4, 192
BITSTREAM (HDBASET™ BYPASS ONLY)	
Supported Formats	Standard & High-Definition

STREAMING OUTPUT	
LPCM	
Max Channels	2 Channels
Sampling Rate (kHz)	44.1, 48
BITSTREAM	
Supported Formats	None

ANALOG AUDIO

ANALOG INPUT	
Max Audio Level	2Vrms
Impedance	20kΩ
Type	Unbalanced

CABLE LENGTH	1080P		4K30	4K60
	8-BIT	12-BIT	(4:4:4) 8-BIT	(4:4:4) 8-BIT
High Speed HDMI Cable				
HDMI Input	15M	10M	5M	x
DisplayPort Cable				
DisplayPort Input	15M	10M	2M	x
USB-C Cable				
USB-C Input	2M			x
VGA Cable				
VGA Input	2M		x	
Ethernet Cable				
CAT5e/6	60M		35M	x
CAT6A/7	70M		40M	x

Bandwidth Category Examples:

1080p (FHD Video)

- Up to 1080p@60Hz, 12-bit color
- Data rates lower than 5.3Gbps or below 225MHz TMDS clock

4K30 (4K UHD Video)

- 4K@24/25/30Hz & 4K@50/60Hz (4:2:0), 8-bit color
- Data rates higher than 5.3Gbps or above 225MHz TMDS clock but below 10.2Gbps

4K60 (4K UHD+ Video)

- 4K@50/60Hz (4:4:4, 8-bit), AVLC/DSC required over HDBaseT™
- 4K@50/60Hz (4:2:0, 10-bit HDR)
- Data rates higher than 10.2Gbps

HDBASET™ FEATURE SET	TRANSMITTER
Video & Audio Extension	Supported
LAN Extension	Unsupported
Send power to Receiver	Supported (PoH)
Accept power from Receiver	Unsupported
IR Extension	Supported
RS-232 Extension	Supported
USB 2.0 Extension	Unsupported

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