

DATA-TRONIX®

USER GUIDE & INSTALLATION MANUAL

DT-HDIPUS

HD IP Streaming Server



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SAFETY PRECAUTIONS



The presence of this symbol is to alert the installer and user to the presence of uninsulated dangerous voltages within the product's enclosure that may be of sufficient magnitude to produce a risk of electric shock.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS DEVICE TO RAIN OR MOISTURE. DO NOT OPEN THE UNIT. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

- ❖ DO NOT apply power to the unit until all connections have been made, all components have been installed and all wiring has been properly terminated.
- ❖ DO NOT terminate, change or uninstall any wiring without first disconnecting the unit's power adapter from the device.
- ❖ This device is supplied with the appropriately rated 12VDC power supply with the center pin positive. The use of any other power supply could cause damage and invalidate the manufacturer's warranty.
- ❖ DO NOT power on the unit until all cables and connections to the device have been properly connected.
- ❖ The device should be installed in an environment consistent with its operating temperature specifications. Placement next to heating devices and ducts is to be avoided as doing so may cause damage. The device should not be placed in areas of high humidity.
- ❖ DO NOT cover any of the device's ventilation openings.

If the device has been in a cold environment allow it to warm to room temperature for at least 2 hours before connecting power.



PACKAGE CONTENTS

This package contains:

- ❖ One DT-HDIPUS IP Streaming Server
- ❖ One Power Adaptor
- ❖ One installation / configuration manual (An eManual will be supplied)

Inspect the package before starting installation to ensure there is no damage and all supplied contents are present. Contact your distributor or dealer if the device is damaged or package contents are incomplete.

PRODUCT DESCRIPTION

DATATRONIX's DT-HDIPUS HD IP Streamer allows the user to stream any one audio/video source over an IP Network to multiple Smart HDTVs or connected computers within the IP Network. The IP Streamer accepts an HDMI, Component, or Composite video input and the unit is designed to deliver a rich HD/SD Streaming experience for its users deploying MPEG-2 or MPEG-4 standards.

The DT-HDIPUS HD Streaming server enables high-definition streaming with resolutions up to 1080p, providing a high quality viewing experience for your customer. The unit is MPEG-2 or MPEG-4 switchable and supports UDP/RTP Streaming. The compact design saves space and is easily controlled via a web UI for rapid deployment.

The HDIP series features:

- **Dual Mode H.264 (AVC) / MPEG-2 selectable output**
- **Video resolution: Up to 1080p60(H.264 only)**
- **HDMI, Component, Composite inputs with auto detection**
- **UDP/RTP/ Unicast/Multicast, DLNA Compatible, TCP**
- **Closed Captioning Support**
- **Output audio format: MPEG-1-Layer2(MP2), AAC, Supports Dolby® Digital encoding**
 - ***Dolby is a trademark of Dolby Laboratories.**
- **Gigabit Ethernet port**
- **Web UI for setup and control**
- **Quick and Easy installation and use**
- **Light weight and compact design**

SPECIFICATIONS

Video / Audio Input	
HDMI	
Connectors	Single
Audio	Embedded PCM / AC-3 Pass Through
Component	
Connectors	Single
Composite	
Connectors	Single
Audio	Analog Audio L & R
Coaxial (Coax S/PDIF)	
Connectors	Single
Optical (S/PDIF)	
Connectors	Single
IP Output	
GigE	
Connector	RJ-45
Standard	1000Base-T Ethernet, Full Duplex
IP Streaming Protocol	
HTTP	Embedded
TCP	Unicast
UDP/RTP	Unicast / Multicast
DLNA	Media Server 1.5
Web Management	
GigE	
Connector	RJ-45
Standard	1000Base-T Ethernet, Full Duplex
HTTP	Embedded
UPnP	Embedded

*Manufactured under license from Dolby Laboratories.

** Specifications subject to change without notification.

Video/ Audio Encoding Profile	
Video	
Resolution	1080p (H.264 Only) /1080i/720p/480p/576i/480i
Video Codecs MPEG-2	VBR/CBR
Video Codecs	H.264 VBR/CBR
Video Codecs H.264 (HD)	>1080p30, HP@Level 4.2/≤1080p30, HP@Level 4 >720p30, HP@Level 3.2/ ≤720p30, HP@Level 3.1
Video Codecs H.264 (SD)	Frame Rate > 30, MP@Level 3.1 / ≤30, Level 3
Aspect Ratio	4:3 &16:9
Video Bitrate	MPEG-2: 10.0~20.0 Mbps (HD)/ 2.0~8.0 Mbps (SD) H.264: 2.0~10.0Mbps (HD) / 1.0~4.0 Mbps(SD)
Audio	
Audio Codecs	MPEG-1 Layer II / MPEG-2 AAC / MPEG-4 AAC/ AC-3 / AC-3 Pass Through
Closed Caption	
RCA (Y)	EIA-608; 1x RCA (cc)
MISC	
GOP	Closed
General	
Local Monitoring	8 LEDs
GUI Supported	Firefox, Chrome
Password Protected	GUI: Changeable
Power Supply	12VDC 1.5Amp.
Consumption	6W Typical
Dimension Housing	9.29" x 6.10" x 1.37" (236mm x 155mm x 35mm)
Weight	2 lbs. and 1.1575 oz. (940g)
Language	English

INSTALLATION



System Installer must adhere to Article 820-40 of the NEC that provides guidelines for proper grounding and specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

UNPACKING and INSPECTION

Each unit is shipped factory tested. Ensure all items are removed from the container prior to discarding any packing material.

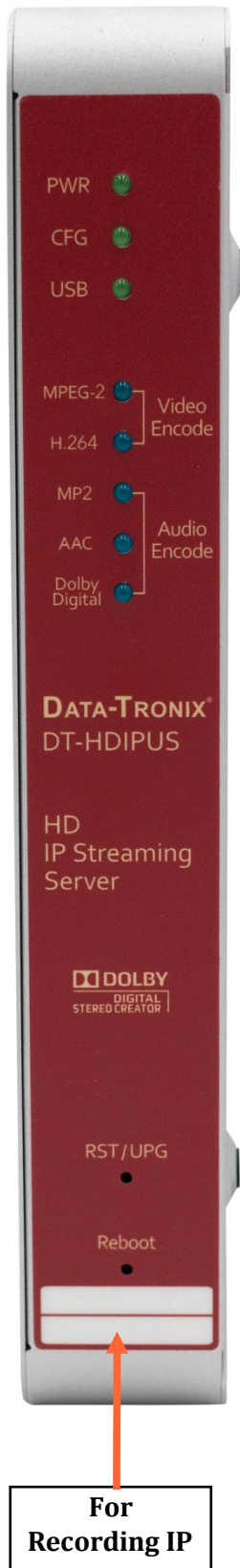
Thoroughly inspect the unit for shipping damage with particular attention to connectors and controls. If there is any sign of damage to the unit or damaged or loose connectors contact your distributor immediately. Do not put the equipment into service if there is any indication of defect or damage.

HARDWARE INSTALLATION and CONNECTIONS

It is highly recommended that quality cables and connectors be used for all video and audio source connections

1. Connect the media source (Satellite STB, Media player, or other media device) to the HDIP streaming server by HDMI, YPbPr (Component), or CVBS (Composite) cables.
2. Connect the HDIP streaming server to local area network (LAN)
3. Plug the power adapter to the device and power up
4. Network Setup
5. There are three (3) use cases supported by HDIP streamer: DLNA media server, UDP/RTP/ multicasting, and TCP/UDP/RTP/ unicasting.

Front-Panel



Buttons/LEDs	Description
Reboot button	Reboots the device (unsaved settings will be lost)
RST / UPG button	<p>To reset all the settings of the device to factory default:</p> <ol style="list-style-type: none"> 1. Press and hold the RST/UPG button and then connect power to the device while pressing in the RST/UPG button. 2. Hold the button until CFG led to flashes 10 times (about 10 seconds) 3. After the CFG led stops flashing -release the button <p>To upgrade firmware using the USB port:</p> <ol style="list-style-type: none"> 1. Plug-in the USB drive with the upgraded firmware image (“hdip_upg.img”) 2. Press and hold the RST/UPG button and boot-up the device 3. USB led will flash while copying the image from USB drive (about 3~5 seconds) 4. Wait until the CFG led stop flashing 5. Release the RST/CFG button and wait for the device to reboot and upgrade the firmware (about 1 minutes)
PWR	Power is ON
CFG	Indicates device is in configuration mode
USB	Indicates USB drive is mounted
MPEG-2	Indicates device is encoding video using MPEG-2
H.264	Indicates device is encoding video using H.264
MP2	Indicates device is encoding audio using MPEG-1 Layer 2
AAC	Indicates device is encoding audio using AAC
Dolby Digital	Indicates device is encoding audio using Dolby Digital

Connecting to the GUI Interface:

Factory Default IP: 192.168.1.9

1. Connect an Ethernet cable directly (**no Cross Over cable required**) to the Web Management Port on the rear panel of the encoder or connect the Ethernet cable to an Ethernet switch. Connect an Ethernet Cable to your PC/Laptop.
2. Modify your PC/Laptop IP address to 192.168.1.100.
3. Enter '192.168.1.9:8888' into your web browser.
4. Enter GUI and make required device changes.
5. Save all changes as required, upload and reboot changes.
6. Verify parameters then end web session.



2020-02-05 19:25:36
GMT+0000 (UTC)
Up 11 hours 31 minutes



Welcome!

Device Name:	DT-005751	Streaming:	Multicast
Program Name:	DEMO-TV		
Model Number:	DT-HDIPUS		
Serial Number:	2006 005751		
MAC Address:	F8:0D:EA:A0:16:77		
Firmware Version:	201909201505		

	Video	Audio
Input Source	NONE / ??	Analog
Output Format	H.264 CBR / 480p30	MP2 / 48.0 KHz
Output Bitrate	4.000 Mbps	128 Kbps
Actual Output	4.471 Mbps	
Encoder Status	Freerun	
Clients	1	

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Overview / Welcome page displays current status of the encoder including Input type, Output format type, Output Bitrate, Actual Output, Encoder Status, and # of connected Clients.

On the Welcome Screen, we have added a tool to help the installer locate a unit in a rack or headend. Press the LED ON button (shown below). This will cause the CFG LED light to flash continuously for the installer to identify and locate the HDIP.

To turn off, simply press the LED tool again.

The screenshot shows the Data-Tronix web interface. At the top right, the date and time are 2020-02-05 19:27:22 GMT+0000 (UTC), and it has been up for 11 hours 33 minutes. The navigation menu includes Overview, Encoder Setup, Streaming Setup, Network Setup, and Administration. The main content area says "Welcome!" with a green LED icon circled in red and an arrow pointing to it, with the text "Click Here to Enable/Disable". Below this is a table of device information:

Device Name:	DT-005751	Streaming:	Multicast
Program Name:	DEMO-TV		
Model Number:	DT-HDIPUS		
Serial Number:	2006 005751		
MAC Address:	F8:0D:EA:A0:16:77		
Firmware Version:	201909201505		

	Video	Audio
Input Source	NONE / ??	Analog
Output Format	H.264 CBR / 480p30	MP2 / 48.0 KHz
Output Bitrate	4.000 Mbps	128 Kbps
Actual Output	4.470 Mbps	
Encoder Status	Freerun	
Clients	1	

Login User and Password

Once the Welcome Page is displayed select the Encoder Setup tab and the below Login “Authentication Required” screen will be presented. Enter the User Name and Password then click Login.

User Name: **admin** Default Password: **Admin123**

Note: User Password can be changed – **See Administration Page.**

The screenshot shows a login authentication screen. It features a compass icon and the following text: "To view this page, you must log in to area 'Protected' on 192.168.1.9:80. Your password will be sent unencrypted." Below this are input fields for "Name" (containing "admin") and "Password" (containing "*****"). There is a checkbox for "Remember this password in my keychain" which is unchecked. At the bottom right are "Cancel" and "Log In" buttons.

Encoder Setup

Encoder Setup

This page allows the user to configure the encoder's settings. After changes are made use the Save and Confirm button. The encoder will reboot and apply the new settings.

Channel

Program Name:

Video Control

Video Input:

Video Output:

H.264 Profile:

H.264 Level:

HD Bitrate: Mbps (2~10)

SD Bitrate: Mbps (1~4)

Aspect Ratio:

Audio Control

Audio Input:

Audio Output:

Audio Bitrate:

Color Control

Brightness:

Contrast:

Saturation:

Hue:

MISC

HDCP(test mode):

Closed Caption:

Encoder Setup

The DT-HDIPUS provides the user with a variety of parameter settings. Many of the default settings will allow the user to quickly start streaming video. Only some of the settings shown will require any change.

Video Control

Select Video Input

Setting the device to **Auto Detect** allows the Encoder to automatically recognize which video source the user is using.

Video Input:	Auto detect
Video Output:	Auto detect
H.264 Profile:	Composite
	Component
	HDMI

Selecting HDMI, Component, or Composite “locks” the encoder to detect only the input type selected.

Note: We recommend using the Factory default 'Auto Detect'

Set Video Output Format

Video Output:	H.264 CBR
H.264 Profile:	MPEG-2
	MPEG-2 CBR
H.264 Level:	H.264
	H.264 CBR

The DT-HDIPUS can output High Quality HD/SD video streams in either MPEG-2, MPEG-2 CBR (Constant Bit Rate), H.264, H.264 CBR.

Select the desired Video Output Format

Factory Default: H.264 CBR

Select H.264 Profile (Only for H.264/H.264 CBR)

Selecting H.264 or H.264 CBR allows the user to define / set the H.264 Profile required

H.264 Profile:	Default
H.264 Level:	Default
	BASE
HD Bitrate:	MAIN
	HIGH

Select H.264 Levels (Only for H.264/H.264 CBR)

Selecting H.264 or H.264 CBR allows the user to define / set the H.264 Levels required

Setting the Video Bitrate: HD / SD

MPEG-2 Video Bitrates

HD: 10~20 Mbps (default- 10 Mbps)

SD: 2~8 Mbps (default- 4 Mbps)

HD Bitrate:	<input type="text" value="10"/>	Mbps (10~20)
SD Bitrate:	<input type="text" value="4"/>	Mbps (2~8)

H.264 Video Bitrates

HD: 2~10 Mbps (default- 10 Mbps)

SD: 1~4 Mbps (default- 4 Mbps)

HD Bitrate:	<input type="text" value="10"/>	Mbps (2~10)
SD Bitrate:	<input type="text" value="4"/>	Mbps (1~4)

The DT-HDIPUS allows the user to Set the Video Bitrate desired within the defined parameters offered.

Set or use the default settings as required.

Select Aspect ratio

Aspect Ratio:	<input type="text" value="16:9"/>
	4:3
	16:9

Select :16:9 (default) or 4:3

Audio Control

Select Audio Input

Setting the device to **Auto Detect** allows the Encoder to automatically recognize which Audio Input source the user is using.

Selecting Analog, Coaxial SPDIF (Digital Coax), or Optical SPDIF (Toslink) “locks” the encoder to detect only this type of Audio Input.

Audio Input:	<input type="text" value="Auto detect"/>
Audio Output:	Auto detect
Audio Bitrate:	Analog
	Coaxial SPDIF
	Optical SPDIF

Note: We recommend using the Factory default 'Auto Detect'

Application Note:

If your Video Source is HDMI and you require an alternate Audio Source – **Select Analog**.

This will force the DT-HDIPUS to use the L/R RCA Audio Inputs as the Audio Source.

Select Audio Output Type

Use the drop-down tool to Select the Audio Format required.

Note: AC-3 Dolby Audio is not available on all HDIP Series Encoders

Select Audio Bitrate

Use the drop-down tool to Select the Audio Bitrate required

Color Control

Modify Brightness/Contrast/Saturation/Hue

Change the above settings as required on the Encoder.

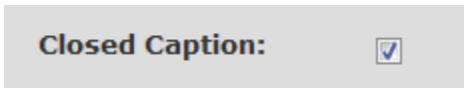
Note: We recommend using the Factory default **Factory Default: 128**

Enable Closed Captioning

Steps to Enable Closed Caption:

1. Connect Video source to HDMI or YPbPr (Component) port(s).
2. Connect Video with supporting Closed Caption source to CVBS port.
3. A supporting Closed Caption Player/TV must be used for this function.

Insert Closed Captioning Support device into the CVBS (Composite) Port



Enable/Disable Closed Caption Functionality by checking the Checkbox as shown above.

Note: Even with Closed Captioning enabled in the encoder, no closed captioning will appear with source video disconnected.

'Save and Confirm' the changes made on the Encoder Page.

Note: To reset all changes made or saved go to the Administration Page and select **"Reset to Default"**.

After pressing the **'Save and Confirm'** button- the user will be brought back to the Overview page.

Leaving the encoder page without saving changes will cause the previous settings to be used.



Streaming Setup

The DT-HDIPUS can be setup to stream via HTTP (DLNA) directly from the network to the DLNA application on a DLNA Compliant Smart TV, directly to a PC using Multicast (UDP/RTP), to an HDTV by using a compatible set top box, or by Unicasting (UDP/RTP) to a PC. The DT-HDIPUS can stream via HTTP and Multicast simultaneously.

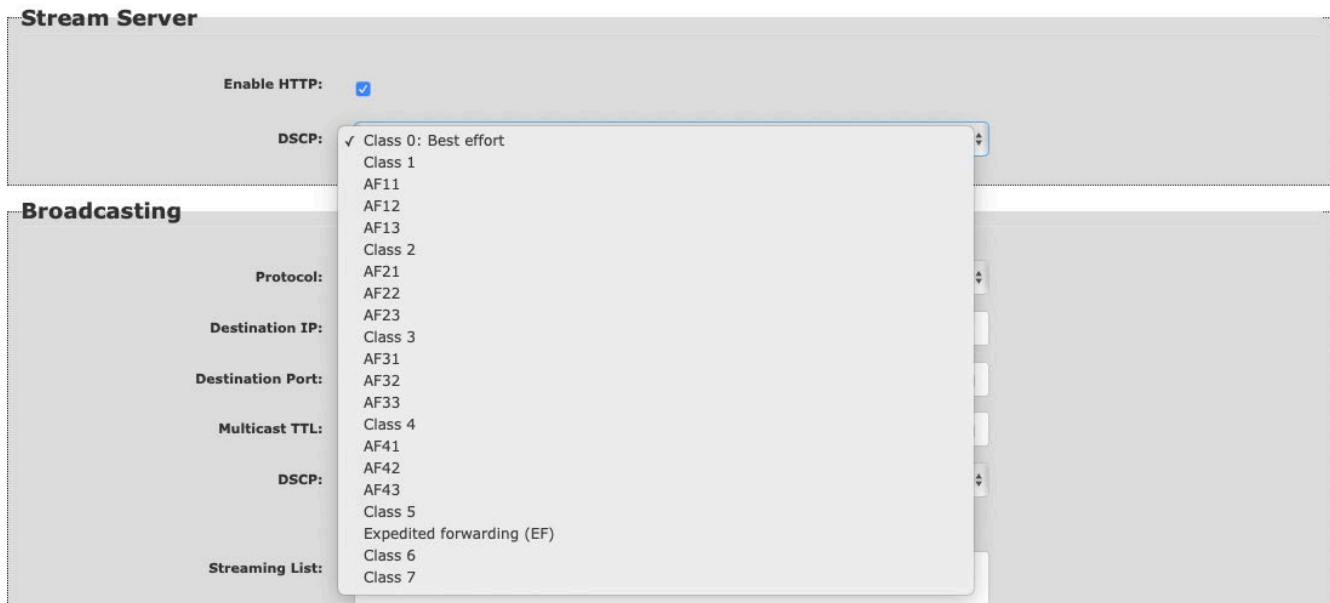
Stream Server

HTTP (DLNA) Setup

Select 'Enable HTTP' for DLNA Streaming

Streaming Setup

This page allows the user to configure the streaming settings. Use the **Add** button to append a new casting item to the list, and use the **Remove** button to delete the selected casting items from the list. After changes are made, use the **Save and Confirm** button. The streaming engine will apply the new settings.



The DT-HDIPUS is DLNA Compliant and can create a stream that will be detected and displayed to any Smarttv that is DLNA Compliant.

Enable HTTP as shown above and select the desired DSCP.

*****SAVE AND CONFIRM** all changes made on the Streaming Setup page

Broadcasting

Protocol:	UDP Multicasting
Destination IP:	UDP Multicasting
Destination Port:	RTP Multicasting
Multicast TTL:	UDP Unicasting
	RTP Unicasting
	TCP

Select the Broadcasting Protocol as pictured above in the drop-down list. The Broadcasting is Default: UDP Multicasting

Protocol:	UDP Multicasting
Destination IP:	
Destination Port:	1234
Multicast TTL:	4
DSCP:	Class 0: Best effort
	<input type="button" value="Add"/>

Enter Multicast Destination IP Address and Destination Port.

Multicast TTL (Time to Live) default is 4.

Select the desired DSCP from the drop-down list. Default is Class 0: Best effort.

Click “Add” after setting and the IP will be shown in the Streaming List.

*****SAVE AND CONFIRM** all changes made on the Streaming Setup page

Unicasting Setup

Protocol:	UDP Unicasting	▼
Destination IP:	<input type="text"/>	
Destination Port:	1234	▲▼
Multicast TTL:	63	▲▼
DSCP:	Class 0: Best effort	▼
<input type="button" value="Add"/>		

Unicast via UDP/RTP/TCP by using the drop-down tool to select the desired method

Enter 'Destination IP', 'Destination Port', and select the desired DSCP from the drop-down list. Default is Class 0: Best effort.

Click "Add" after setting and the IP will be shown in the Streaming List.

To remove a Destination IP – simply select the IP address and Click 'Remove'.

Note: Add up to 16 Destinations to the Streaming List.

*****SAVE AND CONFIRM** all changes made on the Streaming Setup page

Network Configuration

Network Setup

This page allows the user to configure the encoder's network settings.

CAUTION: Incorrect settings may cause the encoder to lose network connectivity. Recovery options will be provided on the next page.

Device Network

Hostname: DT-181671

MAC Address: F8:0D:EA:92:C5:A7

Enable DHCP:

IP Address: 192.168.9.35

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.9.254

DNS Server: 192.168.9.254

NTP Server: time.stdtime.gov.tw

Time Zone: (GMT+08:00) Taipei

Speed & Duplex: Auto

DLNA Settings

Device Name: DT-181671

HTTP/SOAP Port: 8888

Save and Confirm Cancel

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Device Network

Host Name

User definable. If required, enter a new Host Name.

Setting a Static IP

To set a Static IP- **Uncheck** 'Enable DHCP'.

Enter IP Address, Subnet Mask, Default Gateway, and DNS Server.

Default: DHCP Enabled.

NTP Server

To set NTP Server (if required)

Time Zone

Select required Time Zone (if required)

Speed & Duplex

Select using the drop-down tool the required Speed/Duplex parameter (if required).

DLNA Settings

DLNA settings allow users to stream DataTronix Streamers directly to Smart TVs that are DLNA Compliant from the network.

Device Name

User Definable Name which will be displayed on Welcome Page.

Program Name

User Definable which will be displayed on Welcome Page.

HTTP/SOAP PORT

Modify SOAP Port (if required).

Note: SOAP Port is used as part of the unit's IP address when entering into a browser

Example: IP_Address_of_Unit:SOAP_PORT or 169.254.200.128:8888

User **MUST** enter PORT ID as part of the IP address to Open GUI of device.

Default SOAP Port: 8888

***** SAVE AND CONFIRM ALL CHANGES MADE ON THE NETWORK SETUP PAGE**

Administration

Administration

Reboot Device

Reset to default

Reset configuration to factory default.

Maintain Channel List

Channel List:

Download current channel list from this device to a local file.

Upload:

Upload the prepared channel list to device.

NOTE: The channel list will be cleared when the firmware is upgraded.

Backup and Restore Configuration

Configurations:

Backup and download current configuration settings to a local file.

Restore:

Upload the pre-saved configuration settings to device.

Firmware Upgrade

Model Number: DT-HDIPUS

Serial No.: 2006 005751

Firmware Ver.: 201909201505

Firmware Image:

To upgrade the device's firmware, select the required firmware image file then upload it to the device.

Change Password

CAUTION: The new password must contain:

- 6~8 characters
- At least one digit
- At least one uppercase character
- At least one lowercase character

Old Password:

New Password:

Retype New Password:

After changing the password use the Save and Confirm button. The browser will redirect to the Overview page allowing the user to use the new password.

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Reboot Device

Click the 'Reboot Device' button to reboot the device from within the GUI.

Note: The Streamer can be rebooted using pressing the 'Reboot' button on the front of the device.

All unsaved changes will be lost.

Administration

Reboot Device

Reset to default

Reset configuration to factory default.

Reset to Default

Click the 'Reset to Default' button to disregard any parameter changes made to the device.

Note: Device settings will revert to factory default settings.

Maintain Channel List

If using a compatible set-top-box use the Maintain Channel List functions to import and set the Channel

Maintain Channel List

Download

Download current channel list from this device to a local file.

Channel List: no file selected

Upload the prepared channel list to device.

NOTE: The channel list will be reset when the firmware is upgraded.

List.

Backup and Restore Configuration

Saving your configuration files

We highly recommend you save your encoder configuration files. Simply **Click** the “**Backup**” button and the config files will be saved to your computer.

To upload a previously backed up configuration file- simply click “**Choose File**” then locate the file you want to upload. Click “**Upload Settings**” to install the configuration files.

This function is helpful to the installer when installing a large number of encoders in a single system.

A “**config.cfg**” file will be created. Locate the file My Computer> C Directory > Documents and Settings> User>My Documents>Downloads>configs.cfg.

Backup and Restore Configuration

Configurations: Backup and download current configuration settings to a local file.

Restore:

Upload the pre-saved configuration settings to device.

Firmware Upgrade

Firmware Upgrade

Model Number: DT-HDIPUS
Serial No.: 2006 005751
Firmware Ver.: 201909201505

Firmware Image:

To upgrade the device's firmware, select the required firmware image file then upload it to the device.

Use the Firmware Upgrade tools to locate 'Choose File' and 'Upload Image'

Change Password

Change Password

CAUTION: The new password must contain:

- 6~8 characters
- At least one digit
- At least one uppercase character
- At least one lowercase character

Old Password:

New Password:

Retype New Password:

After changing the password use the Save and Confirm button. The browser will redirect to the Overview page allowing the user to use the new password.

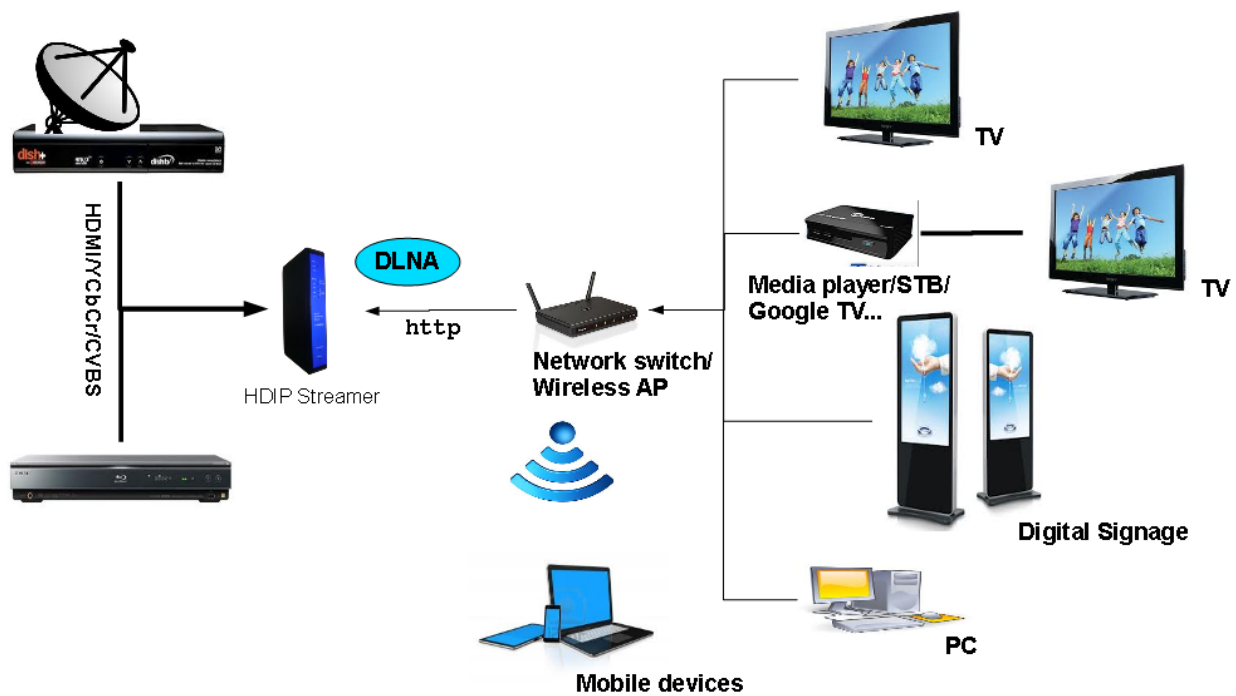
Remember to **Click** 'Save and Confirm' button to save new password.

Streaming Methods Cases

Application Note:

If using VLC player, DataTronix recommends installing version 2.0.8 or newer version. Earlier versions of VLC may not be compatible.

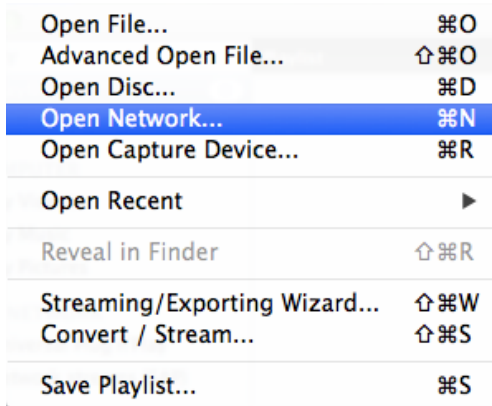
Case 1: DLNA Streaming



ex. VLC media player
<http://@169.254.5.57:8888/VideoInput/play.ts>

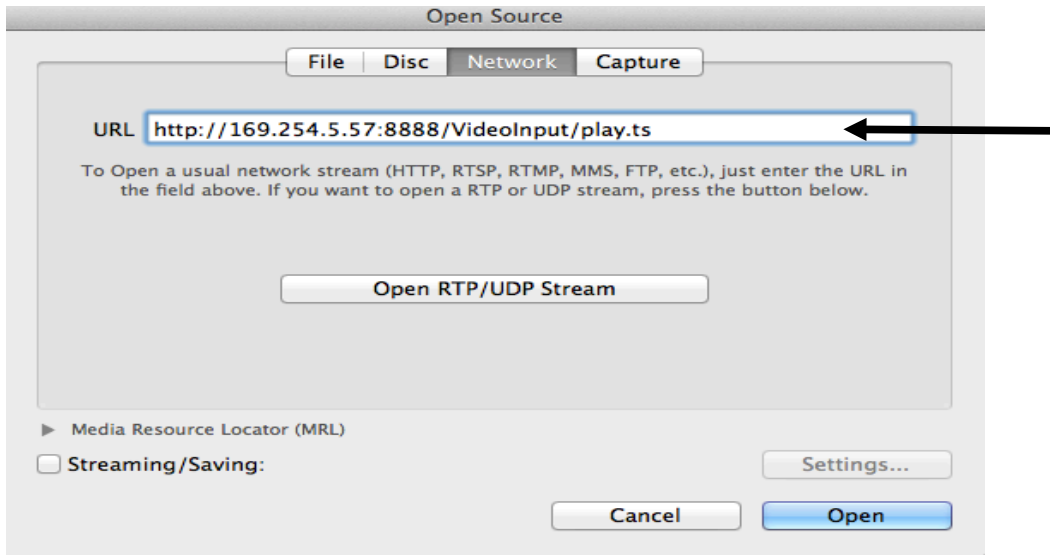
Streaming Setup Example:

- Step 1:** Enable HTTP (DLNA) Streaming
- Step 2:** ***Save and Confirm***
- Step 3:** Launch *VLC Media Player*
- Step 4:** File → Open Network



Step 5: Enter IP Address as shown

Format: http://ip_address_of_unit:SoapPort/Videolnput/play.ts

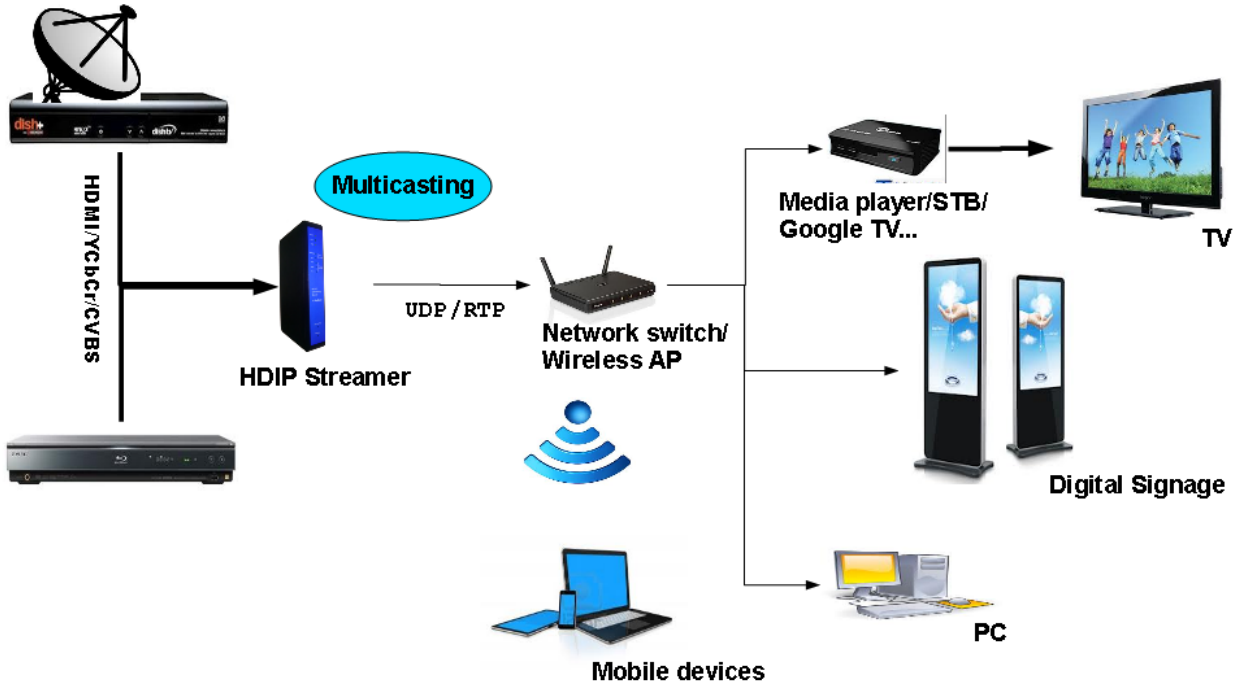


Step 6: Click Open / Play



Case 2: UDP/RTP Multicasting

Streaming Setup Example:



Step 1: Select UDP Multicasting Protocol

Broadcasting

Protocol:

Destination IP:

Destination Port:

Multicast TTL:

DSCP:

Streaming List:

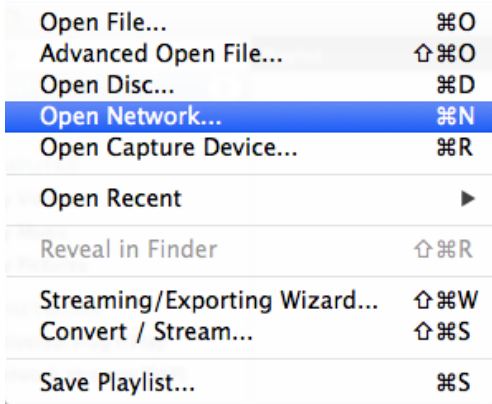
1 / 16

Step 2: Enter Group IP Multicast Address

Step 3: Enter Multicast Port

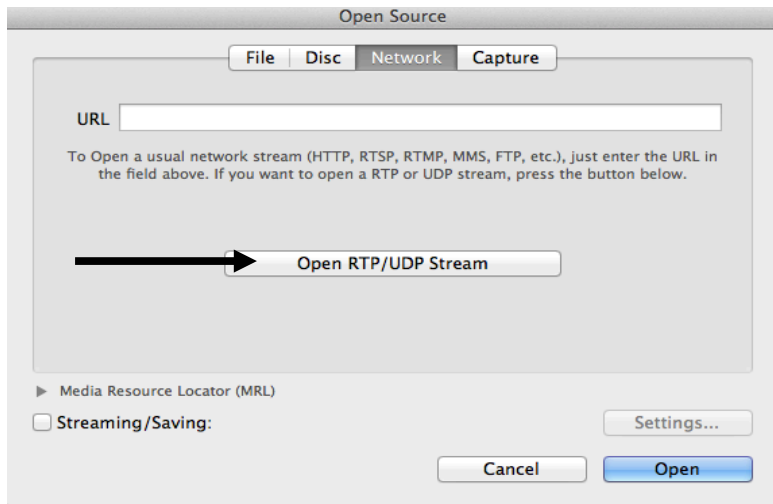
Step 4: ***Save and Confirm***

Step 5: Launch *VLC Media*

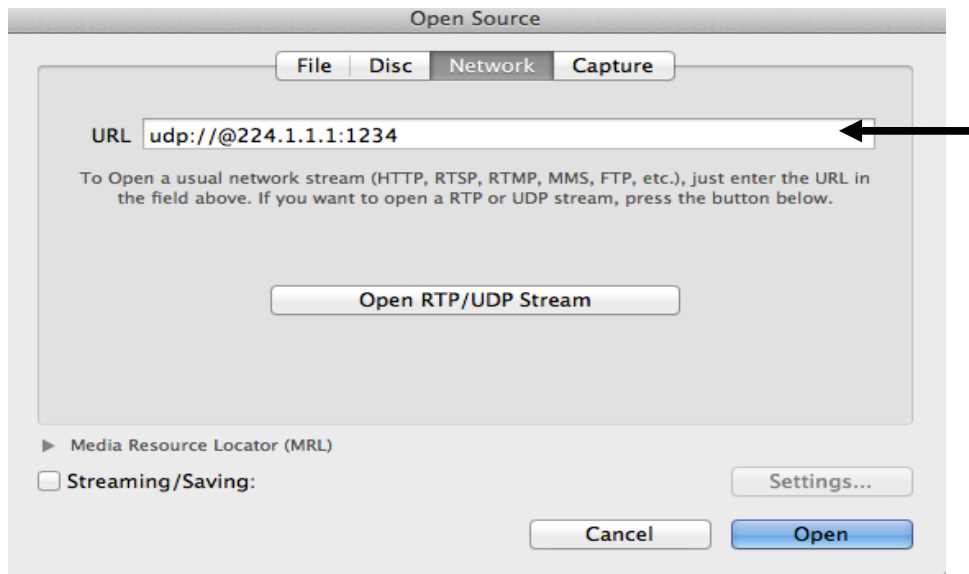


Step 6: File → Open Network

Step 7: Click on 'Open RTP/UDP Stream'



Step 8: Enter Multicast IP and Port or enter Group Multicast as shown below

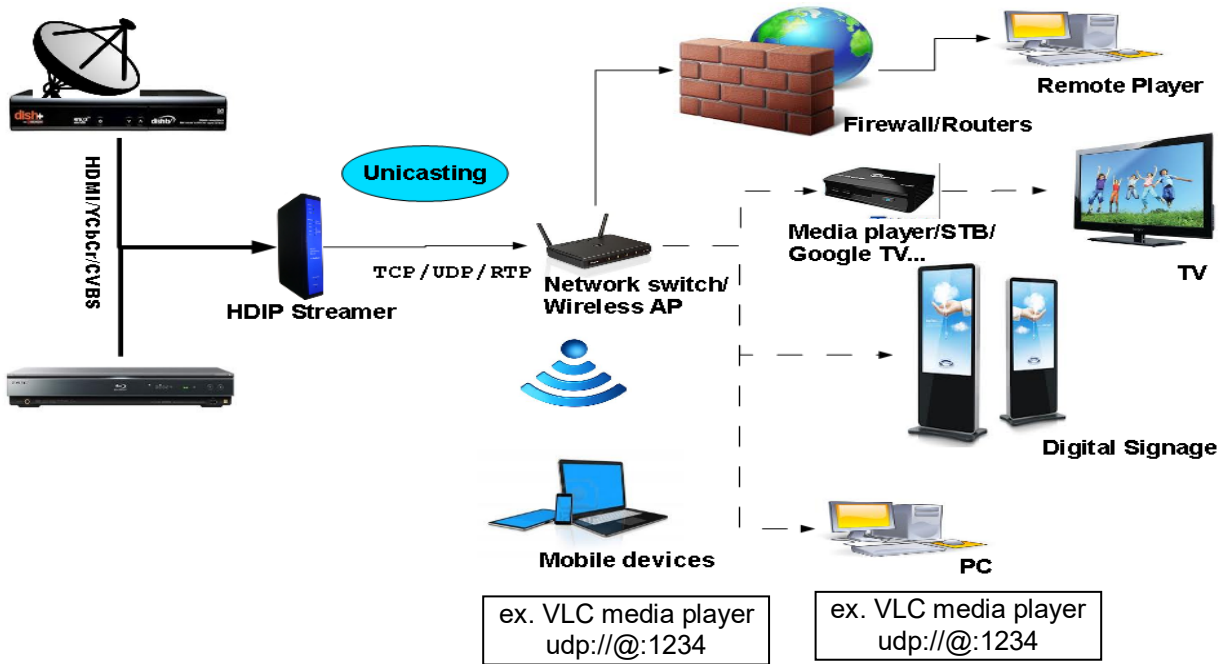


Example for RTP Stream: ***rtp://@224.1.1.1:1234***

Step 9: Click Open to view stream.

Case 3: TCP/UDP/RTP Unicasting

Network Setup Example:



Step 1: Select Protocol: UDP/RTP or TCP using the drop-down tool

Protocol:	UDP Unicasting
Destination IP:	UDP Multicasting
Destination Port:	RTP Multicasting
	UDP Unicasting
	RTP Unicasting
	TCP

Step 2: Enter Destination IP

Step 3: Enter Destination Port

Protocol:	UDP Unicasting
Destination IP:	169.254.244.133
Destination Port:	1234
Multicast TTL:	63
DSCP:	Class 0: Best effort
<input type="button" value="Add"/>	

Step 4: Click 'Add'

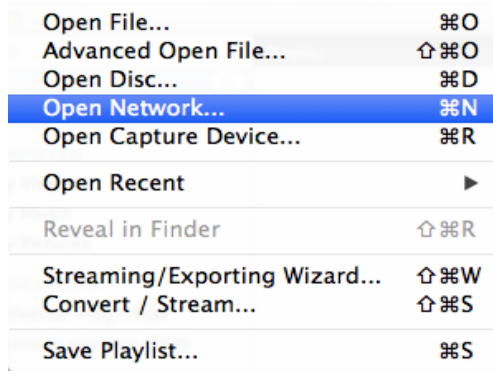
Image above shows Destination IP/Port listed in the Casting List window.

Note: Click on an IP Address then 'Remove' to remove a Destination IP addresses.

Step 5: *Save and Confirm *****

Step 6: Launch VLC Media Player

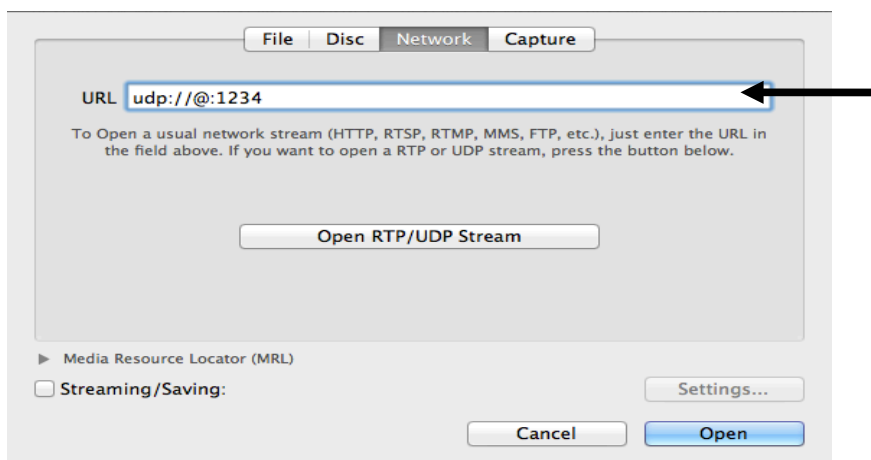
Step 7: File → Open Network



Step 8: Enter Destination Port as shown.

example: Destination IP address as shown in step 4 :169.254.244.133.

Destination Port: 1234



HDIP Streaming Server Notes

PRODUCT NOTES:

ITEM	VALUE
USER NAME / PASSWORD	
SERIAL NUMBER	
INSTALLATION DATE	
PURCHASE DATE	
DEVICE NAME	
FIRMWARE VERSION	
STREAMING METHOD	