DataTronix™
Managed Data Solutions

DT-HDIPSS
User Manual

PWR
CFG
USB

MPEG-2 ⎤ Video
H.264 ⎦ Encode

MP2 ⎤
AAC ⎥ Audio
Dolby ⎦ Encode
Digital

DataTronix™
DT-HDIPSS

HD
IP Streaming
Server

Dolby
AUDIO

RST/UPG

Reboot

HDMI

Y
Pb
Pr
CVBS
Audio L
Audio R
Coaxial
Optical
USB
Network
DC 12V
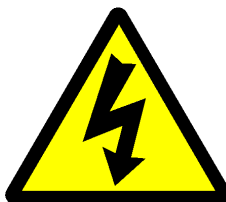
HD IP Streaming Server

Table of Contents

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-HDIPSS IP Streaming Server
- One Power Adaptor
- One installation / configuration manual (An manual 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 should the device be damaged or package contents are incomplete.

Product Description

DataTronix's DT-HDIPSS HD IP Streamer allows the user to stream any one audio/video source over an IP Network to multiple TV's or connected computers within the IP Network. The IP Streamer accepts a 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-HDIPSS 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/RTSP streaming and Content Media Play Through via USB. 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
- *** RTSP Unicast / Multicast
- USB Media Content Player Functionality
- 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
- Lightweight and compact design

Specifications

Interfaces	Ethernet (output)	Combined IP Output Port (1Gbps)/Management Port 10Mbps)
	USB	USB 2.0
	Video Input	HDMI, YPbPr, CVBS
	Audio Input	Analog, Coaxial SPDIF, Optical SPDIF
Encoding	Output Video Format	MPEG-2, H.264
	Output Audio Format	MPEG-1 Layer 2(MP2), MPEG-2 A AC, MPEG-4 A AC, Supports Dolby® Digital encoding*
	Resolution	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
	Output Video Bitrate	MPEG-2HD: 10-20 Mbps, MPEG-2 SD: 2-8 Mbps, H.264 HD: 2-10 Mbps, H.264 SD: 1-4 Mbps
	Output Audio Bitrate	96, 128, 192, 256, 384 Kbps
	Streaming Protocols	HTTP, UDP/RTP multicast, UDP/RTP unicast, TCP unicast
USB Media Player	File Format Supported	A MPEG Transport Stream file (with file name suffix ".ts"), A Matroska or WebM file (with file name suffix "mkv" or ",webm") An Ogg file (with file name suffix ".ogg", ".ogv", or "opus") A MPEG-1 or 2 Program Stream file (with file name suffix "mpg") A MPEG-4 Video Elementary Stream file (with the name suffix "m4e") A H.264 Video Elementary Stream file (with the name suffix ".264") A H.265 Video Elementary Stream file
MISC	Digital Living Network Alliance (DLNA)	MediaServer 1.5
	Closed Caption	Yes
	Power Supply	12VDC 1.5AMP
	Consumption	500mA
	Operating Temperature	+32°F to +113°F (0°C to +45°C)
	Storage Temperature	+14°F to +140°F (-10°C to +60°C)
	Dimension	9.29" x 6.10" x 1.37" (236mm x 155mm x 35mm)
	Weight	2 lbs. and 1.1575 oz. (940g)

*Manufactured under license from Dolby Laboratories. * Specifications subject to change without notification.

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, or CVBS 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. In the same network segment, find the HDIP streaming server from Windows XP/7 "My Network Places"

   ** Note: For Windows XP enable UpnP.

6. Open the streaming server's configuration web page by double-clicking the device icon (XP)

7. There are four (4) use cases supported by HDIP streamer: DLNA media server,

UDP/RTP/RTSP multicasting, TCP/UDP/RTP/RTSP unicasting, and RTSP Media Player via USB.

Limitations:

1. All UPnP/DLNA devices, including the HDIP streaming server (media-server), media-players, the SmartTV, the set-top-box, and the controlling PC, should be located within same network segment/LAN.

2. If a DHCP server is present in the private network, the HDIP streaming server will use the IP address assigned by the DHCP server.

3. If no DHCP server is present, the HDIP streaming server will use an assigned IP address (192.168.1.9).
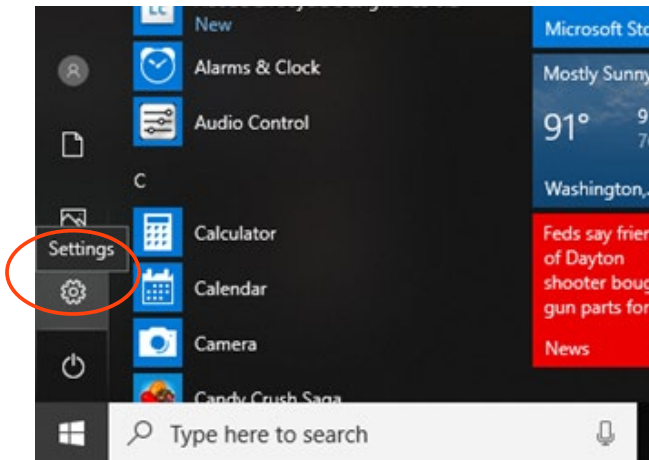
Front Panel

Buttons/LEDs	Description
Reboot button	Reboots the device (unsaved settings will be lost)
RST / UPG button	To reset all the settings of the device to factory default: 1.Press and hold the RST/UPG button and boot-up the device 2.Hold the button until CFG led to flashes 10 times (about 10 seconds) 3.After the CFG led stops flashing release the button To upgrade firmware using the USB port: 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 minute)
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
AVC	Indicates device is encoding video using AVC
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

For Recording IP

Procedure to connect to the Streaming Server
via the Network port

The following procedure will allow the installer to setup the Streaming Server via the GUI

1. Connecting a standard CAT5e/6 cable from HDIP Network port to a PC and power on HDIPSS.

2. Set the PC via the Control Panel to **192.168.1.10.** Below are the instructions for doing these.
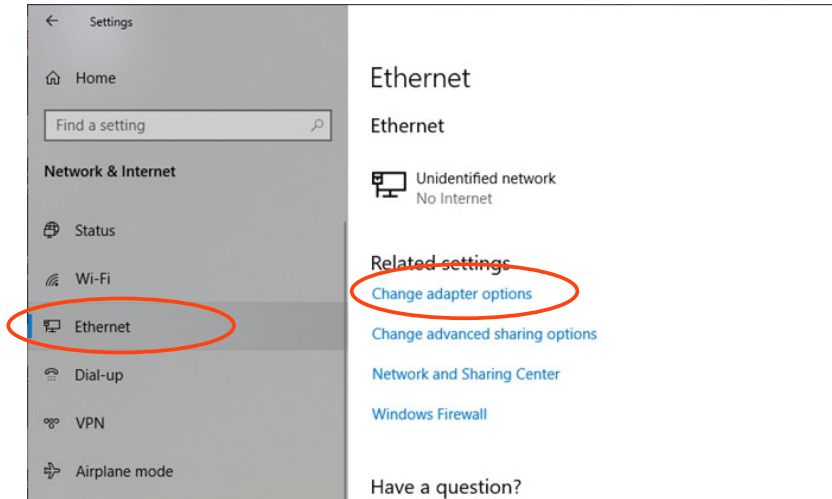
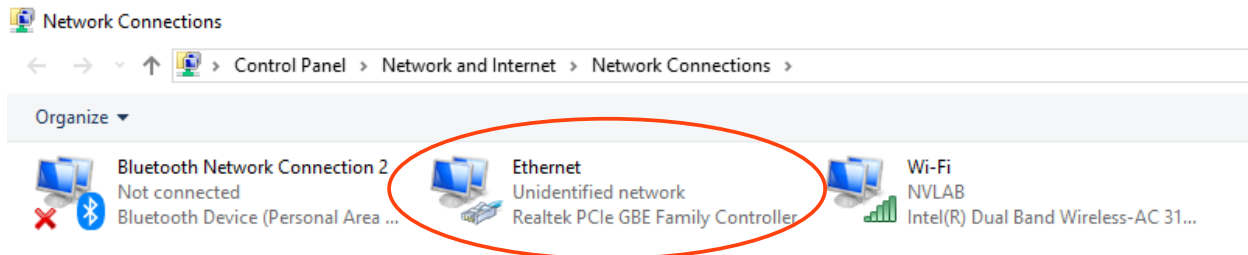a. **Start- Settings**

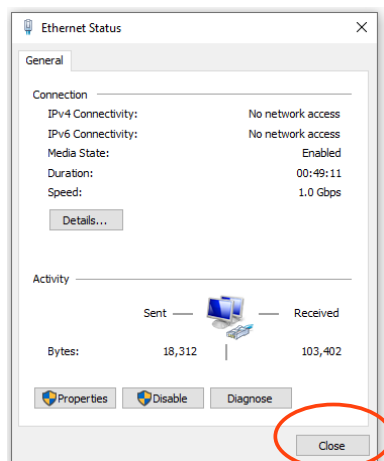
3. **Select 'Network & Internet'**

4. Select **"Ethernet"**

5. Then select **"Change adapter options"**

6. **Double click on "Ethernet"**

7. **Select "Properties"**

8. Select "Internet Protocol Version 4 (TCP/IPV4)"

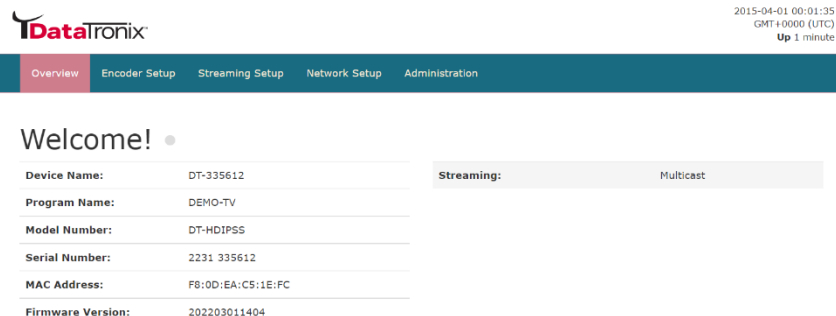9. Select **"Properties"**

10. Select "Use the following IP address:"

11. **Set IP address to: 192.168.1.10**

    Subnet mask: 255.255.255.0

    Default gateway: 192.168.1.1

12. **Select "OK" at the bottom of the all open windows.**

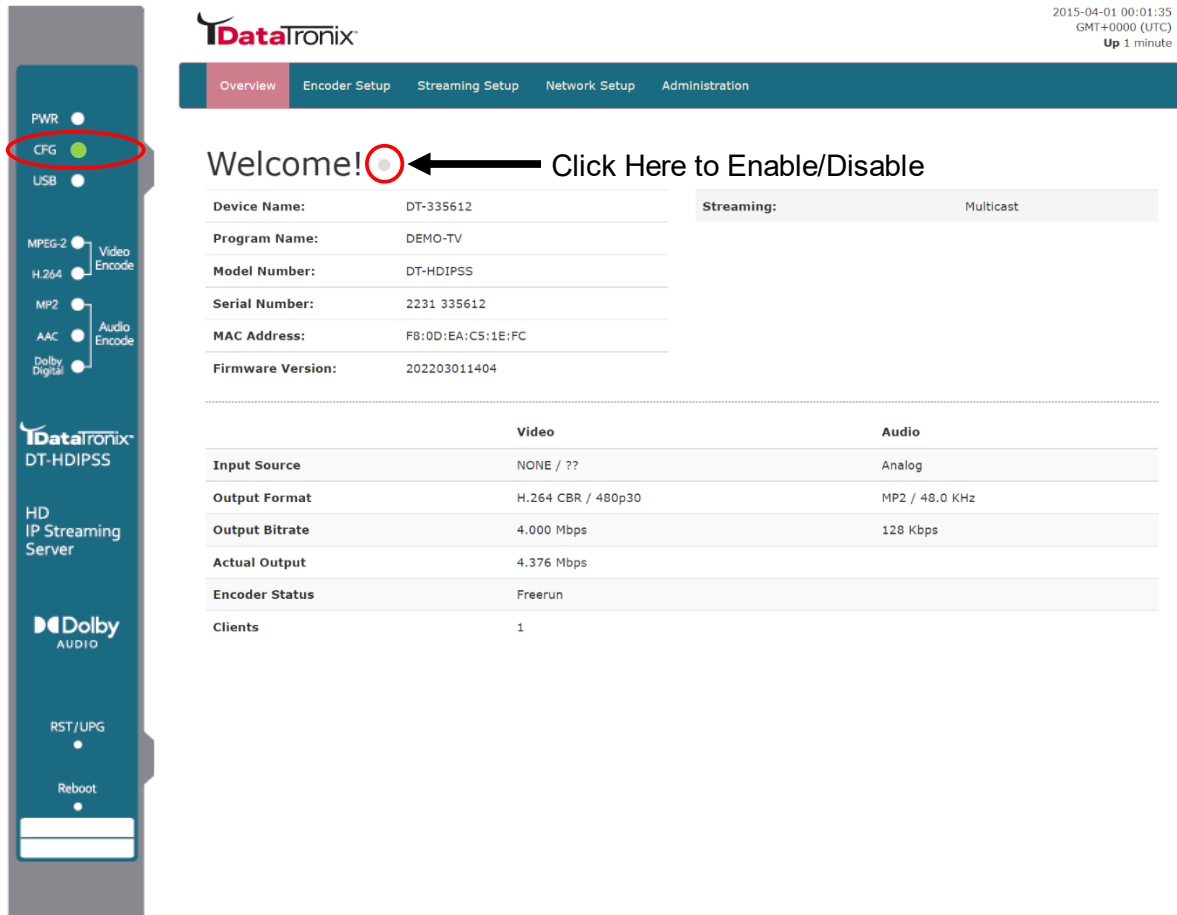13. **Open web browser and type "192.168.1.9" into address bar. You should now see the Graphic user interface.**

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.

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*.

Encoder Setup

Channel

Program Name:	DEMO-TV

Video Control

Video Input:	Auto detect
Video Output:	H.264 CBR
H.264 Profile:	Default
H.264 Level:	Default
HD Bitrate:	4.000 Mbps (2~10)
SD Bitrate:	4.000 Mbps (1~4)
Aspect Ratio:	16:9

Audio Control

Audio Input:	Auto detect
Audio Output:	MPEG1 Layer2 (MP2)
Audio Bitrate:	128 Kbps

Color Control

Brightness:	128
Contrast:	128
Saturation:	128
Hue:	128

MISC

HDCP(test mode):	☑
Closed Caption:	☑

Save and Confirm   Cancel

Encoder Setup

The DT-HDIPSS 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.

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

The DT-HDIPSS 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
	MAIN
HD Bitrate:	HIGH

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

Selecting H.264 orH.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: | 10 | Mbps (10~20) |
| SD Bitrate: | 4 | Mbps (2~8) |

H.264 Video Bitrates
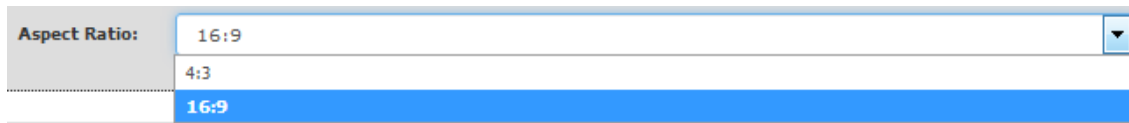
HD: 2~10 Mbps (default- 10 Mbps)

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

| HD Bitrate: | 10 | Mbps (2~10) |
| SD Bitrate: | 4 | Mbps (1~4) |

The DT-HDIPSS 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

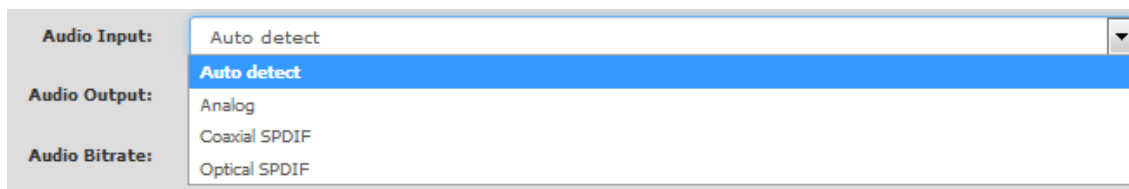| Aspect Ratio:	16:9	▼
	4:3	
	16:9	

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:	Auto detect	▼
	Auto detect	
Audio Output:	Analog	
	Coaxial SPDIF	
Audio Bitrate:	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-HDIPSS to use the L/R RCA Audio Inputs as the Audio Source.

Select Audio Output Type

Audio Input:	Auto detect	▼
Audio Output:	MPEG1 Layer2 (MP2)	▼
	MPEG1 Layer2 (MP2)	
Audio Bitrate:	MPEG-2 AAC	
	MPEG-4 AAC	
	AC-3	

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

Audio Bitrate:	128 Kbps	▼
	96 Kbps	
	128 Kbps	
	192 Kbps	
	256 Kbps	
Brightness:	384 Kbps	

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

Color Control

Modify Brightness/Contrast/Saturation/Hue

Brightness:	128	▼
Contrast:	128	▼
Saturation:	128	▼
Hue:	128	▼

Change the above settings as required on the Encoder.

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

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

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

Selecting H.264 orH.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:	10	Mbps (10~20)
SD Bitrate:	4	Mbps (2~8)

H.264 Video Bitrates

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

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

HD Bitrate:	10	Mbps (2~10)
SD Bitrate:	4	Mbps (1~4)

The DT-HDIPSS 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
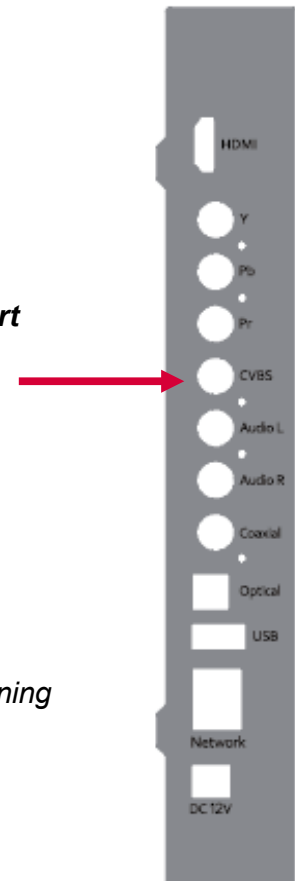

Select: 16:9 (default) or 4:3

Enable Closed Captioning

Steps to Enable Closed Caption:
1. Connect Video source to HDMI or YPbPr port.
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

Support will be available unless the Closed Captioning Source is connected.

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.

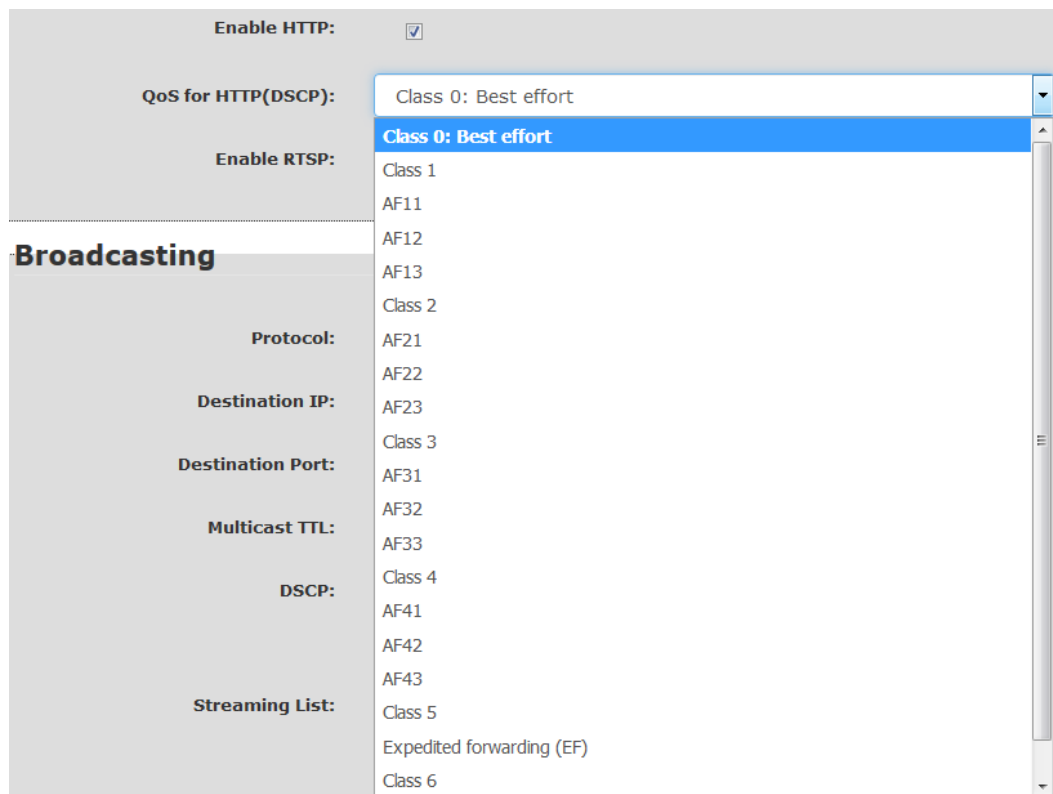**Leaving the encoder page without saving changes will cause the previous settings to be used.**

Streaming Setup

The DT-HDIPSS can be setup to stream via HTTP (DLNA) directly from the network to the DLNA application on a DLNA Compliant Smartv, directly to a PC using Multicast (UDP/RTP/RTSP) or to a HDTV by using a compatible set top box, or by Unicasting (UDP/RTP/RTSP) to a PC. Other applications will also function with the RTSP formats provided. The DT-HDIPSS can stream via HTTP and Multicast simultaneously.

Stream Server

HTTP (DLNA) Setup

Select 'Enable HTTP' for DLNA Streaming

Enable HTTP:	☑
QoS for HTTP(DSCP):	Class 0: Best effort ▼
	Class 0: Best effort
Enable RTSP:	Class 1
	AF11
	AF12
	AF13
Broadcasting	Class 2
	AF21
Protocol:	AF22
	AF23
Destination IP:	Class 3
	AF31
Destination Port:	AF32
	AF33
Multicast TTL:	Class 4
	AF41
DSCP:	AF42
	AF43
Streaming List:	Class 5
	Expedited forwarding (EF)
	Class 6

The DT-HDIPSS is DLNA Compliant and can create a stream that will be detected and displayed to any Smartv 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

Newly Added Functionality:

The DT-HDIPSS can function as a Media Player via the use of a USB Drive while using RTSP streaming format. *See RTSP Streaming.*

Broadcasting

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

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.

Press Add after setting, the IP will be shown in the Streaming List.

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

Unicasting Setup

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.

Press Add after setting, 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

RTSP Streaming

Attach the USB disk with MPEG Transport Stream file(.ts) and index file to the device. Enable RTSP Streaming by checking the checkbox and press the Make index of TS files to make the index.

Please refer the instruction on the Notes below the Streaming Setup Page.

Notes: Pre-defined URLs for playing streams from this device:

- Play live streams by HTTP:

    http://218.161.34.88:910:8888/VideoInput/play.ts

- Play live streams by RTSP:

    rtsp://218.161.34.88:910/VideoInput/ucast.ts

- Play active RTP Multicasting by RTSP:
    — (Need existed RTP multicasting item for the channel)

    rtsp://218.161.34.88:910/VideoInput/mcast.ts

- Play supported media files on USB:

    rtsp://218.161.34.88:910/<filename>

Notes: In order to provide 'trick play' operations for streaming a MPEG Transport Stream file(.ts), administrators may download the special tool, MPEG2TransportStreamIndexer, to generate the index file. Put the TS media file and the index file inside the same folder of the USB disk, and attach the USB disk to the device.
- Windows (on Intel x86 processors): MPEG2TransportStreamIndexer.exe
- MacOS X (on Intel x86 processors): MPEG2TransportStreamIndexer
- Linux (on Intel x86 processors): MPEG2TransportStreamIndexer
- FreeBSD (on Intel x86 processors): MPEG2TransportStreamIndexer

RTSP Unicasting:
Use **"rtsp://device_IP_Address/VideoInput/ucast.ts"** format for RTSP Unicasting.
Example as shown above: "rtsp**://218.161.34.88:910/VideoInput/ucast.ts**"

RTSP Multicasting:
Use **"rtsp://device_IP_Address/VideoInput/mcast.ts"** format for RTSP Multicasting.
Example as shown above: **"rtsp://218.161.34.88:910/VideoInput/mcast.ts"**

Media Player:

The DT-HDIPSS can play Content stored on a USB Drive while using RTSP Streaming protocol.
See **Specifications** of file formats supported listed on page 5 (USB Media Player).

Media Player Via USB Port
Attach USB drive with supported file formats to the DT-HDIPSS to USB port on rear of device.
Use **"rtsp://device_IP_Address/<filename>"** format for USB Media Player.
Example: **"rtsp://218.161.34.88:910/t.ts"**

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

Network Configuration

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 Smartv's 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

Firmware Upgrade

Model Number:	DT-HDIPSS
Serial No.:	2231 335612
Firmware Ver.:	202203011404
Firmware Image:	🗀 Choose file

Upload 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:	

Save and Confirm

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.

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 List.

Maintain Channel List

Download

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

Channel List: Choose File no file selected   Upload list

Upload the prepared channel list to device.

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

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 you 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.

Firmware Upgrade

Firmware Upgrade

Model Number:	DT-HDIPSS
Serial No.:	1928 181671
Firmware Ver.:	201907221101
Firmware Image:	📁 Choose file

Upload 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:

Save and Confirm

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
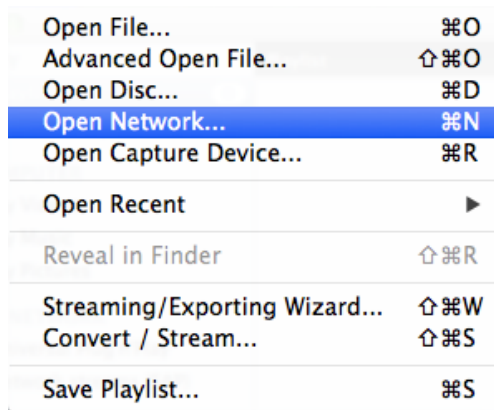

Ex. VLC media player
http://@169.254.5.57:8888/VideoInput/play.ts

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/VideoInput/play.ts

Step 6: Click Open / Play

Case 2: UDP/RTP Multicasting

Streaming Setup Example:

Step 1: Select UDP Multicasting Protocol

Step 2: Enter Group IP MulticastAddress
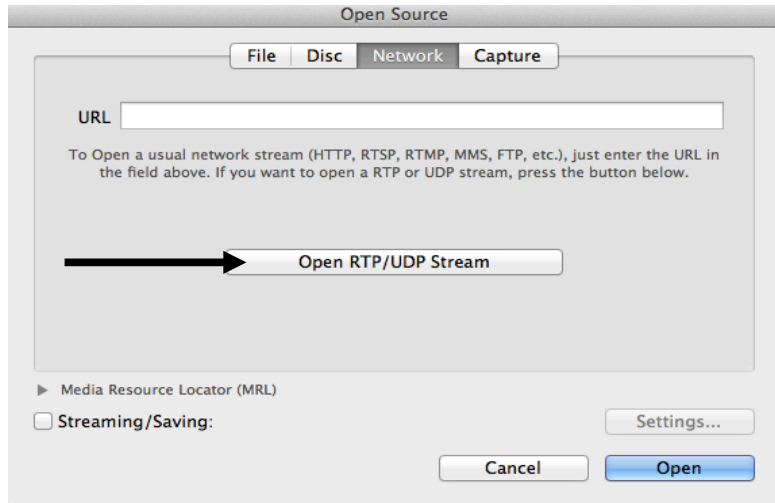
Step 3: Enter Multicast Port

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

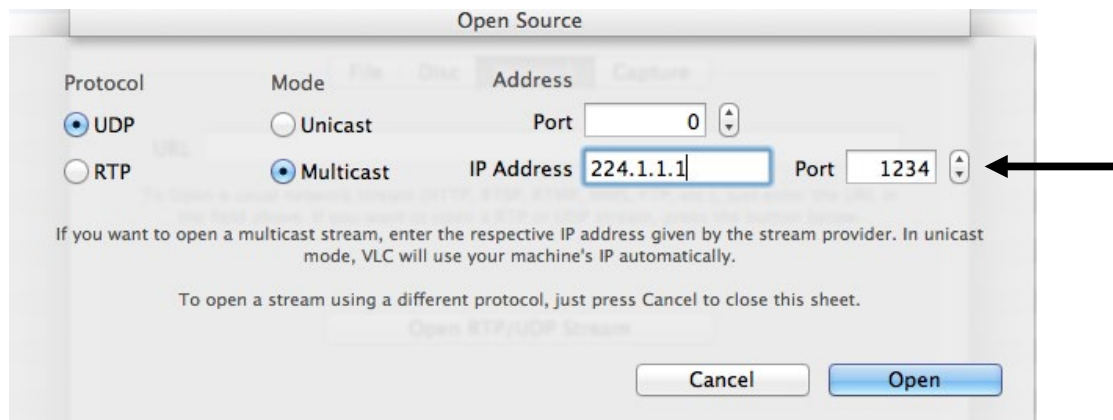**Step 5:** Launch *VLC Media*

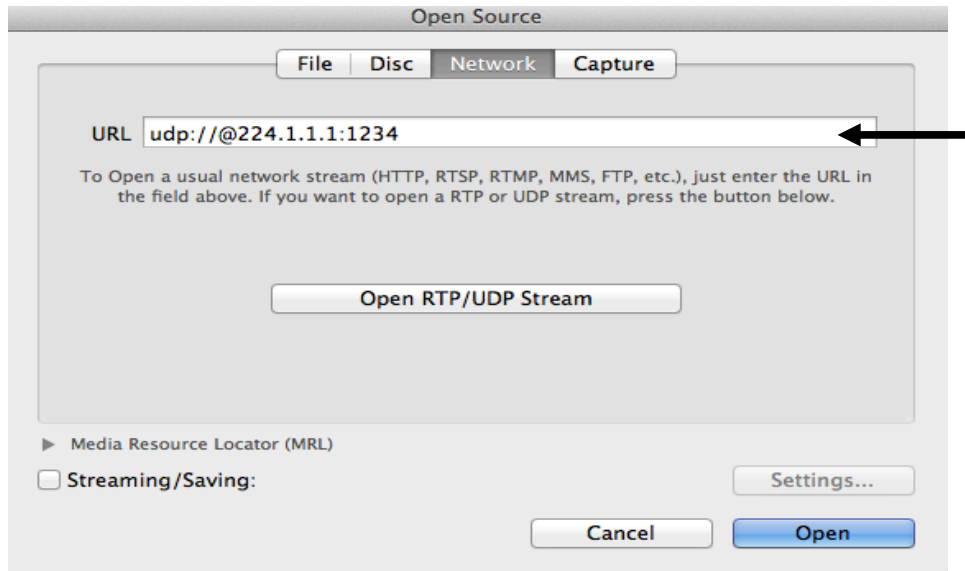**Step 6:** File → Open Network

Step 7: Click on 'Open RTP/UDP Stream

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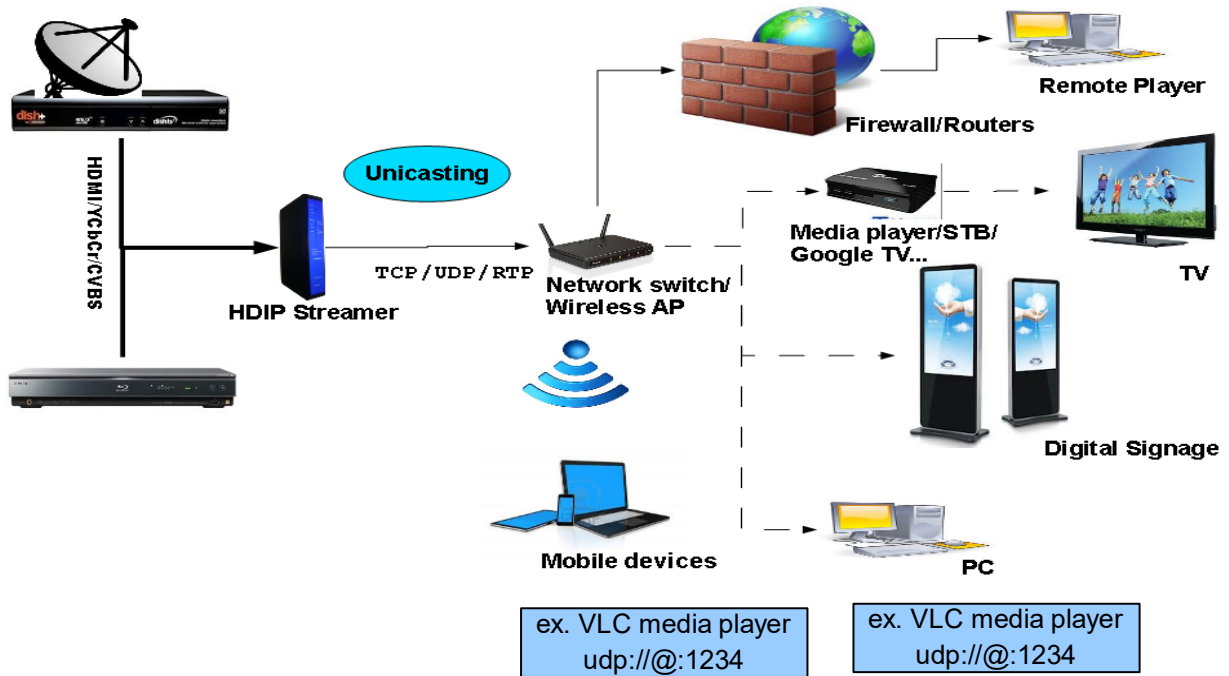
or enter Group Multicast as shown below
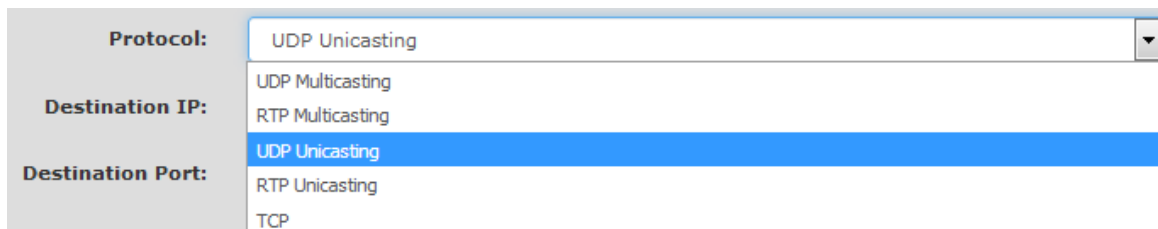

Example for RTP Stream: *rtp://@224.1.1.1:1234*

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

Step 2: Enter Destination IP

Step 3: Enter Destination Port

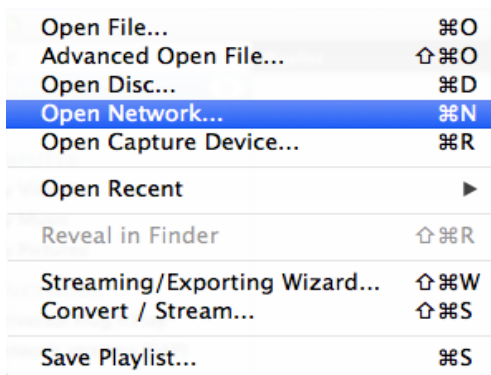|	
Protocol:	UDP Unicasting ▼
Destination IP:	169.254.244.133
Destination Port:	1234 ⬍
Multicast TTL:	63 ⬍
DSCP:	Class 0: Best effort ▼
	Add

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

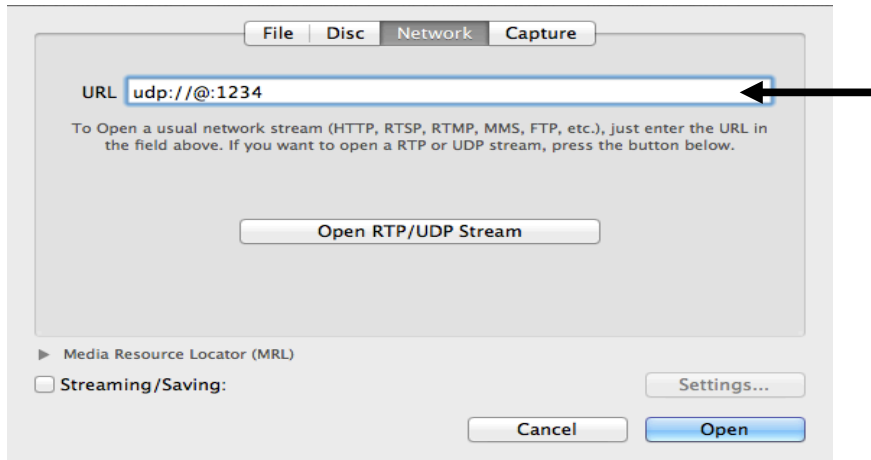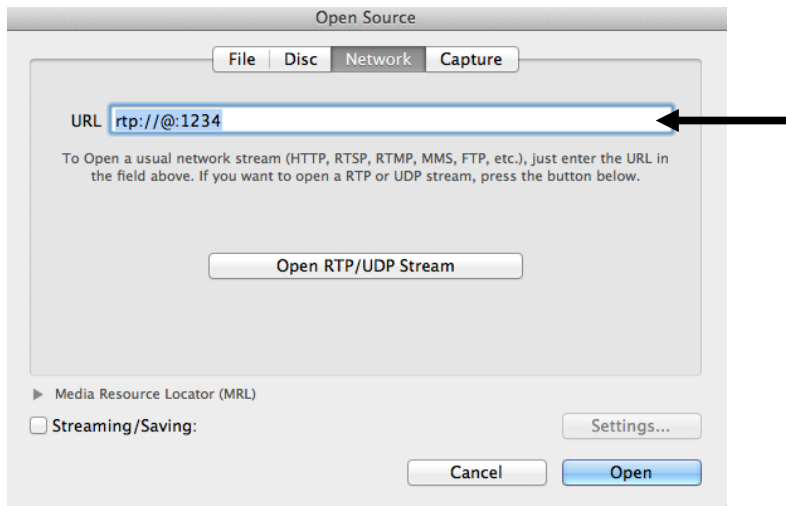|	
Open File...	⌘O
Advanced Open File...	⇧⌘O
Open Disc...	⌘D
Open Network...	**⌘N**
Open Capture Device...	⌘R
Open Recent	▶
Reveal in Finder	⇧⌘R
Streaming/Exporting Wizard...	⇧⌘W
Convert / Stream...	⇧⌘S
Save Playlist...	⌘S

Step 8: Enter Destination Port as shown.
Example: Destination IP address as shown in step 4 :169.254.244.133.

Destination Port: 1234

RTP Example:

Step 9: Click Open to stream.

![DataTronix Managed Data Solutions logo]

Case 4: RSTP Unicasting/Multicasting/Media Player

RTSP Unicasting
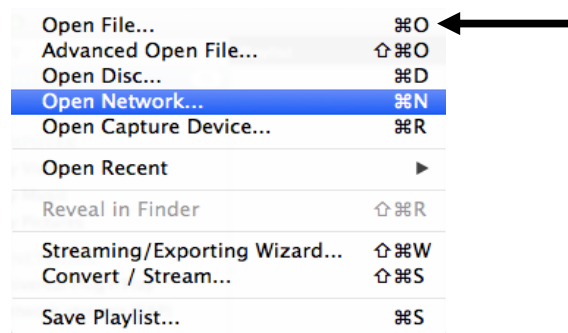
| Enable RTSP: | ☑ | Make index of TS files |

Step 1: Enable RTSP by checking checkbox to stream using RTSP Unicasting, Multicasting, or stream stored content from USB (Using VLC media player as example).
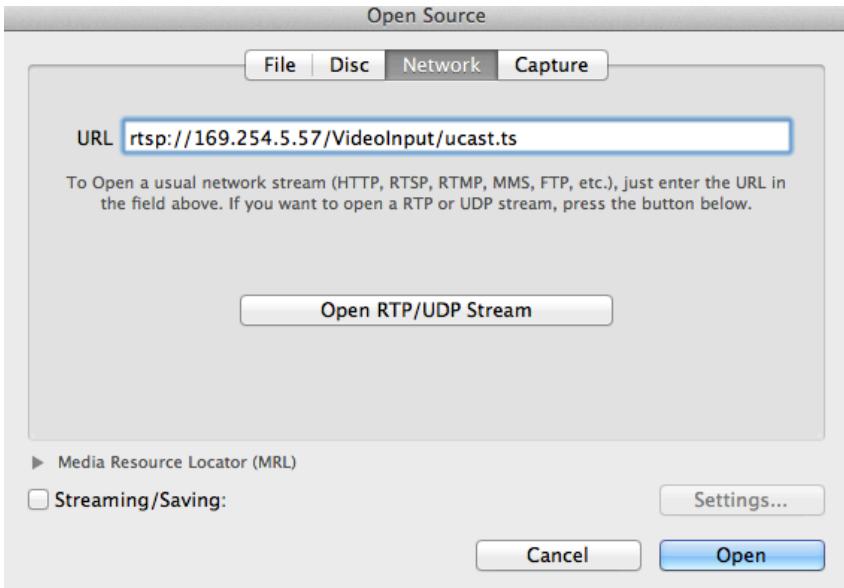
Step 2:   *****Save and Confirm *****

Step 3: **Open** VLC media player

Step 4: Select Media ==> Open Network.....

Open File...	⌘O
Advanced Open File...	⇧⌘O
Open Disc...	⌘D
Open Network...	**⌘N**
Open Capture Device...	⌘R
Open Recent	▶
Reveal in Finder	⇧⌘R
Streaming/Exporting Wizard...	⇧⌘W
Convert / Stream...	⇧⌘S
Save Playlist...	⌘S

Step 5: Enter rtsp://169.254.5.57/VideoInput/ucast.ts

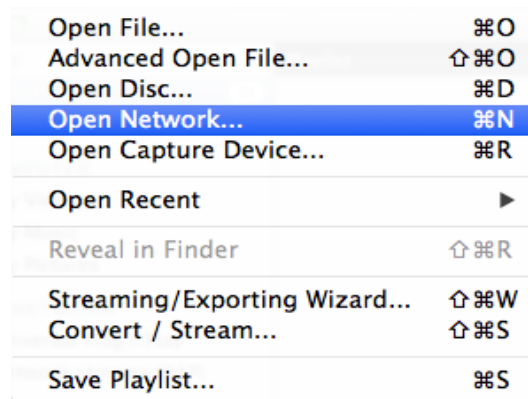**Step 6:** Click Open to stream.

RTSP Active RTP Multicasting

Step 1: Enable RTSP by checking checkbox to stream using RTSP Unicasting, Multicasting, or stream stored content from USB (Using VLC media player as example).

Step 2: ***Save and Confirm *

Step 3: Open VLC media player

Step 4: Select Media ==> Open Network.....

Step 5: Enter rtsp://169.254.5.57/VideoInput/mcast.ts

Step 6: Click Open to stream.

Media Player / Streaming via files USB

Step 1: Enable RTSP by checking checkbox to stream using RTSP Unicasting, Multicasting, or stream stored content from USB (Using VLC media player as example).
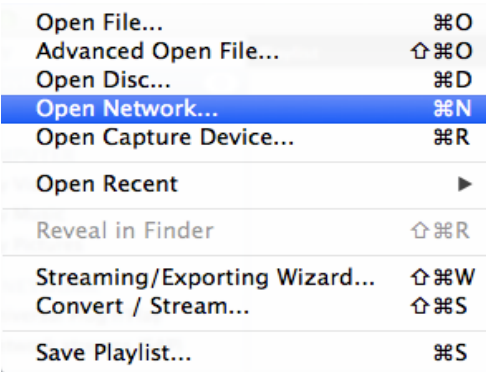
Step 2: ***Save and Confirm *

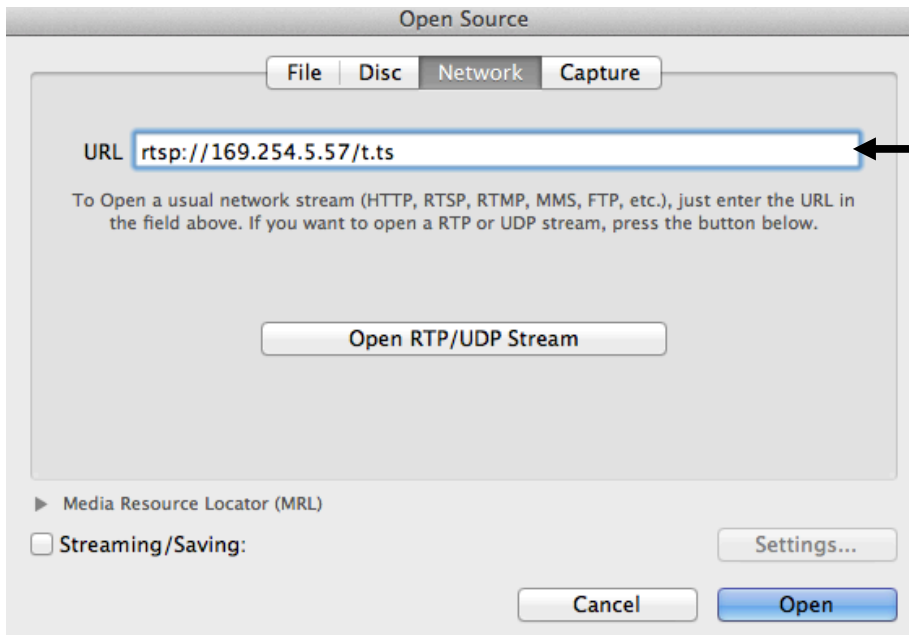**Step 3:** Prepare and place MPEG-2 TS files on USB drive with file name suffix ".ts"

Step 4: Attach USB stick to DT-HDIPSS USB port.

Step 5: Open VLC media player

Step 6: Select Media ==> Open Network.....

HDIP Streaming Server Notes

PRODUCT NOTES:

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