

DATA-TRONIX®

INSTALLATION & CONFIGURATION MANUAL

DT-HDIPCOM

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-HDIPCOM IP Streaming Server
- ❖ One 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 should the device be damaged or package contents are incomplete.

Product Description

Data-Tronix's DT-HDIPCOM HD IP Streamer allows the user to stream any one audio/video source over an IP Network to up to anyTV'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.

Combine any sources and stream them over the network for multiple sources. The DT-HDIPCOM HD streaming server enables high-definition streaming with resolutions up to 1080p, providing a high quality viewing experience for your customer. The unit is MPEG2 or MPEG4 switchable and supports UDP/RTP Streaming. The compact design saves space and is easily controlled via a GUI for rapid deployment.

The DT-HDIPCOM features:

- ✓ **Dual Mode H.264 / MPEG-2 selectable output**
- ✓ **Video resolution: Up to 1080p (H.264 only)**
- ✓ **HDMI, component, composite inputs with auto detection**
- ✓ **UDP/RTP/ Unicast/Multicast, DLNA Compatible, TCP**
- ✓ **Variable Bit Rate control**
- ✓ **Closed Captioning support**
- ✓ **Audio format: MPEG-1-Layer2(MP2), AAC, Dolby Stereo Creator (AC3)**
*Dolby is a trademark of Dolby Laboratories.
- ✓ **GigE output port**
- ✓ **GUI for setup and control**
- ✓ **Front panel LED Status Display**
- ✓ **Easy installation and use**

Specifications

Interfaces	Ethernet (output)	Combined IP Output Port (1Gbps)/Management Port 10Mbps)
	USB (optional)	USB 2.0
	Video Input	HDMI, YPbPr, CVBS
	Audio Input	Analog, Coaxial, Optical
Encoding	Video Format	MPEG-2, AVC
	Audio Format	MPEG-1 Layer 2(MP2), AAC, AC-3
	Resolution	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
	Video Bitrate	MPEG-2HD: 10-20 Mbps, MPEG-2 SD: 2-8 Mbps, AVC HD: 2-10 Mbps, AVC SD: 1-4 Mbps
	Audio Bitrate	128, 256, 384 Kbps
	Streaming Protocols	HTTP Server (DLNA), UDP/RTP multicast, UDP/RTP unicast, TCP unicast
	MISC	Digital Living Network Alliance (DLNA)
	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 of Dolby Laboratories

****Specifications subject to change without prior notice***

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. In the same network segment, find the HDIP streaming server from Windows XP/7 "My Network Places" **
Note: For Windows XP enable UpnP.
5. Open the device's GUI by double-clicking the device icon(XP)

There are three (3) use cases supported by HDIP streamer: DLNA media server, UDP/RTP multicasting, and TCP/UDP/RTP unicasting.

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 DT-HDIPCOM will use the IP address assigned by the DHCP server.
3. If no DHCP server is present, the DT-HDIPCOM will use an assigned IP address (169.254.xxx.x).

Front-Panel



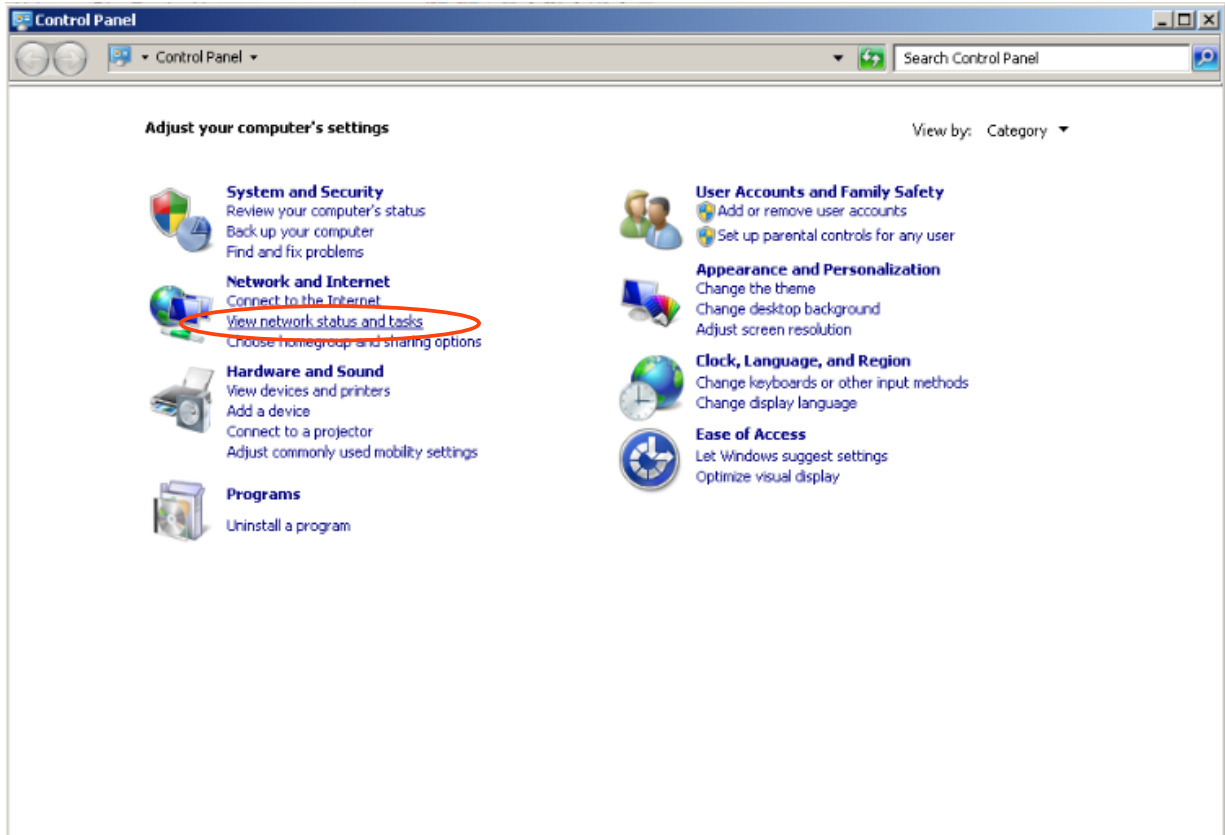
For recording IP

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

Procedure to connect to the Streaming Server via the Network port

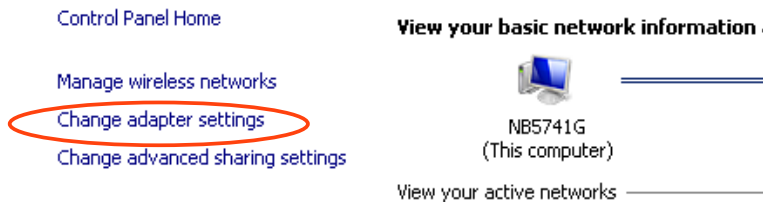
The following procedure will allow the installer to setup the Streaming Server via the GUI

1. Connect a standard CAT5e cable from HDIP Network port to a switch or directly to a PC or laptop.
2. Using a PC go to the Control Panel to **“Network and Internet”**



Start- Control Panel ==> View Network Status and Tasks

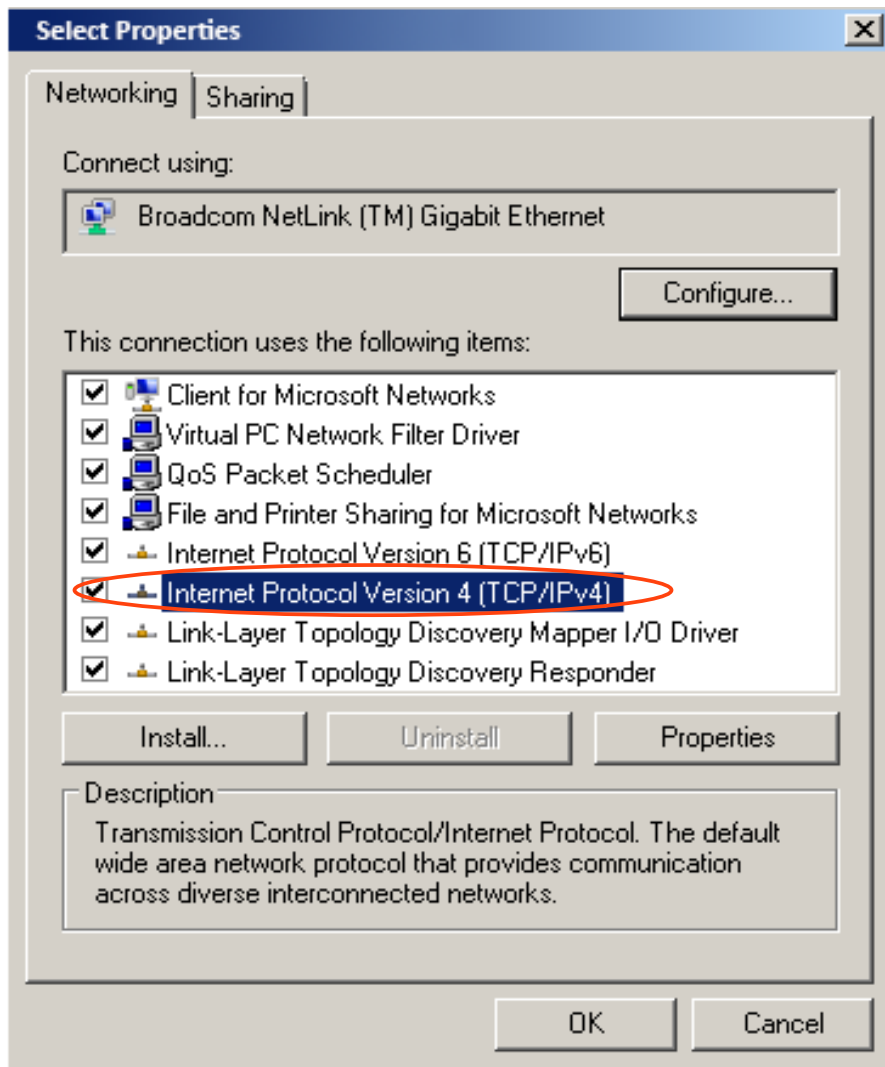
3. Select 'Change Adapter Settings' from the left pane



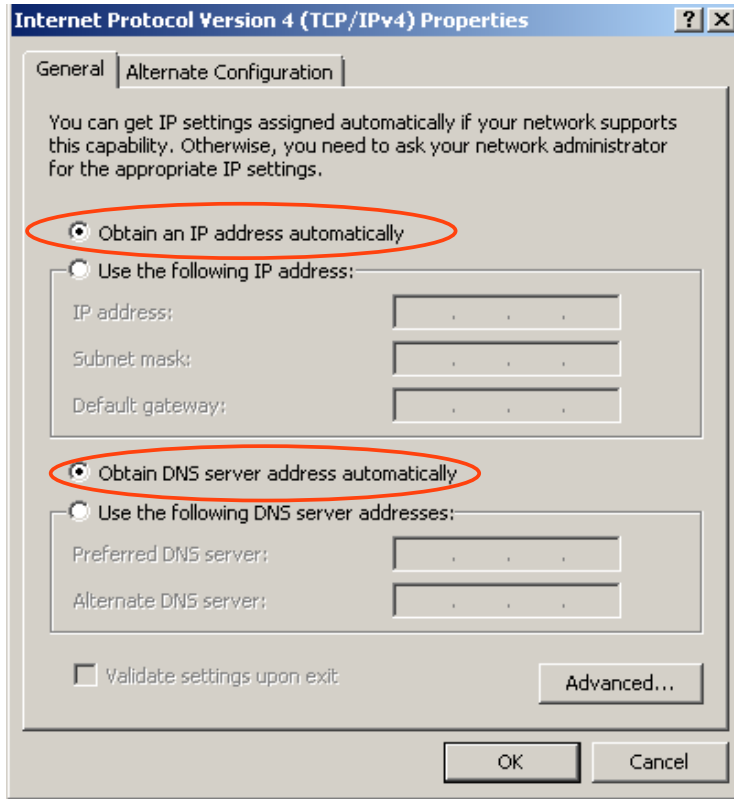
4. Select Local Area Connection Icon

Then **Right Click – Select Properties**

Internet Protocol Version 4(TCP/IPv4) Properties



5. Change “Obtain an IP address automatically” to “Use the following IP address”



6. Set your LAN IP address to 192.168.1.2, with a subnet mask of 255.255.255.0.

7. Once your LAN IP address has been set, access the DT-HDIPCOM unit using your web browser and entering “192.168.1.9” into your address bar.

Overview Welcome page will be displayed

2019-08-05 13:48:31
GMT+0800 (CST)
Up 13 minutes

DATA-TRONIX®

- Overview
- Encoder Setup
- Streaming Setup
- Network Setup
- Administration

Welcome! ●

Device Name:	DT-102854
Program Name:	DEMO-TV
Model Number:	DT-HDIPCOM
Serial Number:	1514 102854
MAC Address:	F8:0D:EA:51:91:C6
Firmware Version:	201907221029


Streaming: Multicast

	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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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.



To view this page, you must log in to area "Protected" on 192.168.1.9:80.
Your password will be sent unencrypted.

Name:

Password:

Remember this password in my keychain

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

Note: User Password can be changed – See Administration Page

On the Welcome Screen, we have added a tool to help the installer locate a unit in a rack or headend.

Press/Click 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 in the Headend.

To turn off, simply press the LED tool again.

The screenshot shows the DATA-TRONIX web interface. On the left is a vertical hardware status panel with indicators for PWR, CFG (circled in red), USB, Video Encode (MPEG-2, H.264), and Audio Encode (MP2, AAC, Dolby Digital). The main content area displays the 'Welcome!' message with a green dot and a button labeled 'Click Here to Enable/Disable'. Below this is a table of device information and a configuration table.

Device Information:

- Device Name: DT-102854
- Program Name: DEMO-TV
- Model Number: DT-HDIPCOM
- Serial Number: 1514 102854
- MAC Address: F8:0D:EA:51:91:C6
- Firmware Version: 201907221029

Streaming: Multicast

	Video	Audio
Input Source	HDMI / 1080p60	HDMI
Output Format	H.264 CBR / 1080p60	MP2 / 48.0 KHz
Output Bitrate	4.000 Mbps	128 Kbps
Actual Output	4.817 Mbps	
Encoder Status	OK	
Clients	1	

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Overview Page

2019-08-05 15:02:51
GMT+0800 (CST)
Up 1 hour 5 minutes

DATA-TRONIX®

Overview Encoder Setup Streaming Setup Network Setup Administration

Welcome! ●

Device Name:	DT-102854
Program Name:	DEMO-TV
Model Number:	DT-HDIPCOM
Serial Number:	1514 102854
MAC Address:	F8:0D:EA:51:91:C6
Firmware Version:	201907221029

Streaming: Multicast

	Video	Audio
Input Source	HDMI / 1080p60	HDMI
Output Format	H.264 CBR / 1080p60	MP2 / 48.0 KHz
Output Bitrate	4.000 Mbps	128 Kbps
Actual Output	4.441 Mbps	
Encoder Status	OK	
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.

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: DEMO-TV

Video Control

Video Input: Auto detect

Video Output: H.264 CBR

H.264 Profile: Default

H.264 Level: Default

HD Bitrate: 4 Mbps (2~10)

SD Bitrate: 4 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

The DT-HDIPCOM 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
H.264 Level:	H.264 CBR

The DT-HDIPCOM 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

A screenshot of a configuration window showing a dropdown menu for H.264 Levels. The menu is open, displaying a list of options: Default, Level 1, Level 2, Level 3, Level 4, Level 5, Level 3-1, Level 3-2, Level 4-1, Level 4-2, and Level 5-1. The 'Default' option is currently selected and highlighted in blue. To the left of the dropdown, there are labels for 'H.264 Level:', 'HD Bitrate:', 'SD Bitrate:', 'Aspect Ratio:', and 'Audio Input:'.

Setting the Video Bitrate: HD / SD

MPEG-2 Video Bitrates

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

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

A screenshot of the MPEG-2 Video Bitrate settings. It shows two input fields: 'HD Bitrate' with a value of 10 and 'SD Bitrate' with a value of 4. To the right of each field is a range of allowed values: 'Mbps (10~20)' for HD and 'Mbps (2~8)' for SD. Each input field has a small up/down arrow icon on its right side.

H.264 Video Bitrates

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

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

A screenshot of the H.264 Video Bitrate settings. It shows two input fields: 'HD Bitrate' with a value of 10 and 'SD Bitrate' with a value of 4. To the right of each field is a range of allowed values: 'Mbps (2~10)' for HD and 'Mbps (1~4)' for SD. Each input field has a small up/down arrow icon on its right side.

The DT-HDIPCOM 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

A screenshot of an 'Aspect Ratio' dropdown menu. The menu is open, showing three options: 16:9, 4:3, and 16:9. The bottom '16:9' option is highlighted in blue. The label 'Aspect Ratio:' is visible to the left of the dropdown.

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
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-HDIPCOM to use the L/R RCA Audio Inputs as the Audio Source.

Select Audio Output Type

Audio Output:	MPEG1 Layer2 (MP2)
Audio Bitrate:	MPEG1 Layer2 (MP2)
	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:	<input type="text" value="128"/>	▼
Contrast:	<input type="text" value="128"/>	▼
Saturation:	<input type="text" value="128"/>	▼
Hue:	<input type="text" value="128"/>	▼

Change the above settings as required on the Encoder.

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

Saving Changes

Save all/any changes made on the Encoder Page. Leaving the Encoder page without using the **'Save and Confirm'** button will cause the encoder to keep the previous saved settings.

Enable Closed Captioning

Steps to Enable Closed Caption:

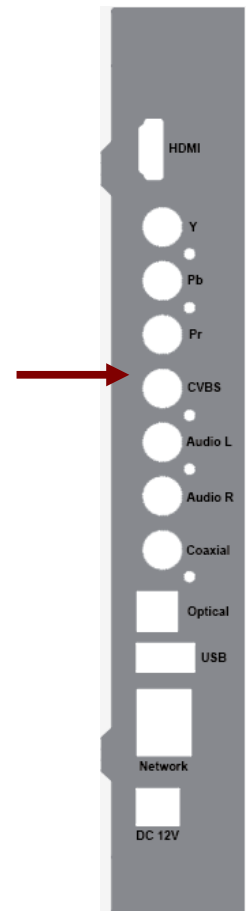
1. Connect Video source to HDMI or YPbPr port.
2. Connect Video with supporting Closed Caption source to CVBS port.
3. A supporting Closed Caption Player/TV must be used for this function.

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

Closed Caption:	<input checked="" type="checkbox"/>
-----------------	-------------------------------------

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.

If you leave the encoder page without saving your changes the encoder will use the previous settings saved.

Streaming Setup

The DT-HDIPCOM can be setup to stream via HTTP (DLNA) directly from the network to the DLNA application on a DLNA compliant Smarttv, using Multicast (UDP/RTP) direct to a PC or by using a compatible set top box, or by Unicasting (UDP/RTP). The DT-HDIPCOM can stream via HTTP and Multicast simultaneously.

Stream Server

HTTP (DLNA) Setup

Select 'Enable HTTP' for DLNA Streaming

The screenshot shows a configuration interface for HTTP (DLNA) streaming. The 'Enable HTTP' checkbox is checked. The 'DSCP' dropdown menu is open, displaying a list of DSCP classes: Class 0: Best effort (selected), Class 1, AF11, AF12, AF13, Class 2, AF21, AF22, AF23, Class 3, AF31, AF32, AF33, Class 4, AF41, AF42, AF43, Class 5, Expedited forwarding (EF), and Class 6. Other configuration fields are visible on the left side of the form, including Protocol, Destination IP, Destination Port, Multicast TTL, and Streaming List.

The DT-HDIPCOM 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 Unicastig
	RTP Unicastig
	TCP

Select the Broadcasting Protocol as above 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.

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

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.

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

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-102854
MAC Address:	F8:0D:EA:51:91:C6
Enable DHCP:	<input type="checkbox"/>
IP Address:	192.168.9.15
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.9.254
DNS Server:	192.168.9.254
NTP Server:	time.statime.gov.tw
Time Zone:	(GMT+08:00) Taipei
Speed & Duplex:	Auto

DLNA Settings

Device Name:	DT-102854
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- **Uncheck** 'Enable DHCP'

Time Zone

Select required Time Zone as required.

Speed & Duplex

If required- **Select** using the drop-down tool the required Speed/Duplex parameter.

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.

HTTP/SOAP PORT

Modify SOAP Port as required.

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

Example: IP_Address_of_Unit: SOAPPORT 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

2019-08-05 15:06:10
GMT+0800 (CST)
Up 1 hour 8 minutes

DATA-TRONIX®

Overview Encoder Setup Streaming Setup Network Setup 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-HDIPCOM

Serial No.: 1514 102854

Firmware Ver.: 201907221029

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.

Use the Administration Page to reboot, reset to factory default settings, backup and upload configuration files, and perform Firmware Upgrades.

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.

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 Case

COM2000 LCI (Local Channel Insertion)

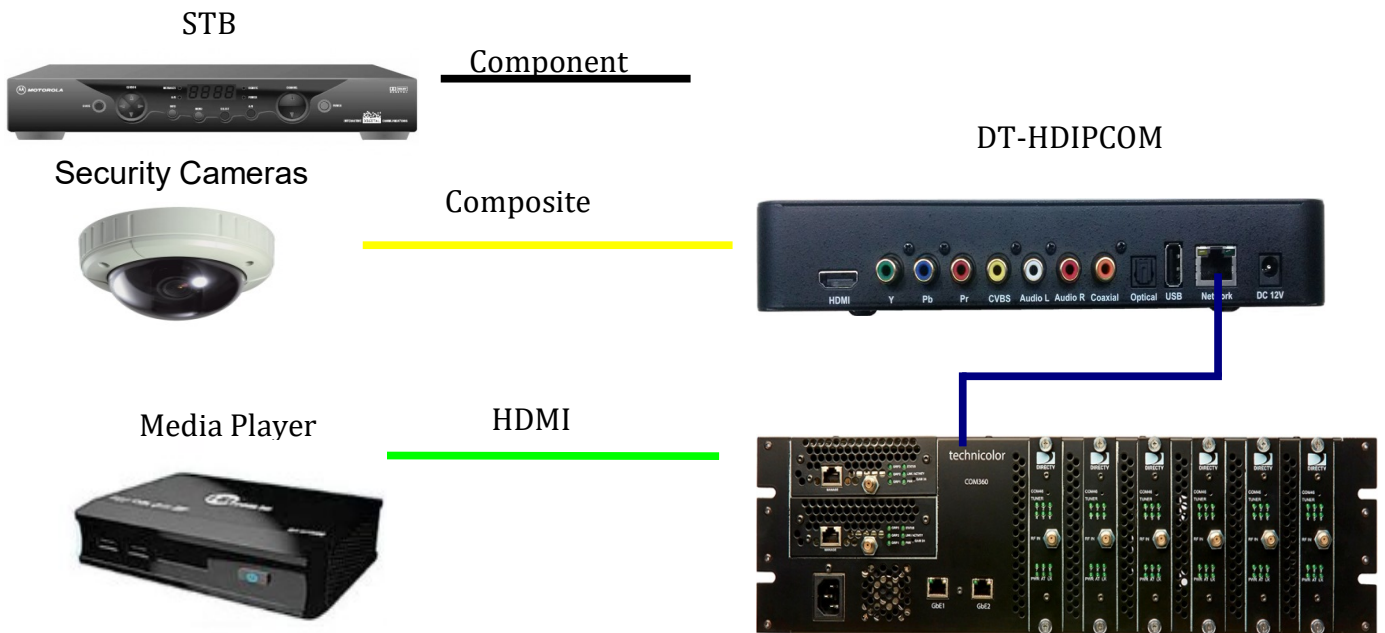
Inserting HD/SD Local Content with the COM2000 System

The Technicolor COM2000 system has the ability to accept and insert Local Content into the COM2000 system using the DT-HDIPCOM Streamer and the Technicolor QAM. The Local Content is inserted into the HD IP Streamer which can output either a Unicast or Multicast formatted stream that is then inserted into the COM2000 System. The Technicolor QAM is used to assign a QAM channel to the IP stream and incorporates the local channel into the system.

The content source (a media player or other source) is connected to the DT-HDIPCOM streamer via a Composite, Component, or HDMI connection. Using the HD IP Streamer, a MPEG-2 SPTS (Single Program Transport Stream) is created and is output via a 1Gbe port. The HD IP Streamer encodes the Audio and Video content. The Integrator sets up a Unicast or Multicast Stream via the Web management pages of the encoder.

The DataTronix DT-HDIPCOM Streamer offers a Composite, Component, and HDMI Input. By connecting the HD IP Streamer either with a Component, HDMI, or Composite cable to the source (i.e. Digital Signage Media Player). The Streamer can be setup to output a MPEG-2 CBR SPTS stream in either a Multicast or Unicast format. An ethernet cable from the Streamer is connected to the GbE1 or GbE2 port on the COM360. **(Note: If both GbE ports are in use the Integrator will need to introduce a 1Gbe Ethernet Switch into the design/setup).**

Network Setup Example:



Step 1: Select Encoder Parameters on Encoder Setup Page

Video Control

Video Input: Auto detect

Video Output: MPEG-2 CBR

H.264 Profile: Default

H.264 Level: Default

HD Bitrate: 10 Mbps (10~20)

SD Bitrate: 4 Mbps (2~8)

Aspect Ratio: 16:9

Audio Control

Audio Input: Auto detect

Audio Output: AC-3

Audio Bitrate: 128 Kbps

Video Output: Select MPEG-2 CBR

Audio Output: Select AC-3

Step 2: Save and Confirm Encoder Changes

Step 3: Determine Unicast Destination Port

Step 4: Select Streaming Setup Tab

Stream Server

Enable HTTP:

Broadcasting

Protocol: UDP Unicasting

Destination IP:

Destination Port: 1234

Multicast TTL: 63

DSCP: Class 0: Best effort

Add

Streaming List: udp://224.1.1.1:1234

Remove 1 / 16

Save and Confirm Cancel

Step 5: Uncheck 'Enable HTTP' and Select Protocol UDP Unicasting

Step 6: Enter Destination IP of the COM2000 QAM.

Step 7: Enter Destination Port of the QAM Channel.

Step 8: Click 'Add'.

Step 9: 'Save and Confirm' all changes.

Step 10: Select Network Setup.

Device Network

Hostname: DT-102854

MAC Address: F8:0D:EA:51:91:C6

Enable DHCP:

IP Address: 192.168.9.15

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

Step 11: Uncheck 'Enable DHCP' to set Static IP address.

Step 12: Enter an IP address in the same IP scheme as the COM2000 system.

Step 13: Enter Subnet Mask.

Step 14: Enter Default Gateway (if required).

Step 15: Set NTP Server (if required).

Step 16: Select Time Zone (as required).

Step 17: ***Save and Confirm*** all changes on Network page.

Note: Installer will lose connectivity after changing the IP address and saving the new settings.

Remember to set the PC in the same IP Scheme as newly configured IP address of the device.

The SOAP Port of the device is used as part of the IP address entered into the browser to manage the device (192.168.3.3:8888)

Step 18: Once all the settings are made- connect an Ethernet cable from the Streamer to the 1Gbe or 2Gbe port on the COM360.

Step 19: Continue setting up COM2000 as usual.

Note: We highly recommended backing up your config files for the streamer. See Administration Tab for Backup and Restore Functions.

For more detailed step by step instructions see:

<http://www.technicolor.com/en/solutions-services/connected-home/commercial-video-solutions/library>

See: *Inserting HD/SD Local Content with the COM2000 System*

HDIP Streaming Server Notes

PRODUCT NOTES:

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

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