

DT-HDIPSSL User Manual



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1. Important Information

Please read this user manual before using the streamer. It contains important information about operating your streamer kit. Our limited warranty applies when the product is handled properly for intended use, in accordance with its operating instruction.

WARNING: TO REDUCE THE RISK OF ELECTRICAL SHOCK DO NOT REMOVE THE COVER. NO USER-SERVICEABLE PARTS ARE INSIDE REFER SERVICING TO QUALIFIED PERSONNEL



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

Safety Instructions



Danger: Be careful with electricity. Power to the units must be switched off before any work is undertaken, such as any Media player device connection.

Power outlet: To prevent electric shock, make sure to use the appropriate AC adapters as power supply to the transmitter and the receiver.

Power cord: Be sure the power cord is routed so that it will not be stepped on or pinched by heavy items.

Power overloading: Avoid overloading electrical outlets or extension cords which otherwise could result in electric shock or fire.

Lightning: Disconnect the product from the power source if it is left unattended for a long period of time, and to protect the product from lightning. Always disconnect the power cord from the power outlet when you are not using your streamer kit. This reduces the risk of electric shocks or fire.



Warning: This product should not be exposed to dripping or splashing. No object filled with liquids, such as vases, should be placed on the product.

Object Entry: To avoid electric shock, never stick anything in the slots on the case or remove the cover. Place streamer on a flat, hard and stable surface

Ventilation: Do not block the ventilation slots on the streamer or place any heavy object on the top cover. Blocking the air flow could damage the streamer. Arrange components so that air can flow freely around the streamer. Ensure that there is adequate ventilation if the receiver is placed in a stand. Put the streamer in a properly ventilated area, away from direct sunlight or any source of heat.

Water Exposure: To reduce the risk of fire or electric shock, do not expose the streamer to rain or moisture.

This is indoor product. Our company has the right to modify this document without any notice.

2. Introduction

HD IP Streaming Server allows users to stream CVBS / Component / HDMI source over Network to IP Box or computers within Network.

2.1 Packing Content

Please check whether the following items are present in the package. If any items is missed or damaged, please call your DataTronix.

- 1 - DT-HDIPSSL HPD IP Streamer
- 1 - Power Adapter
- 1 - User Manual

2.2 Description of controls and components

Please check whether the following items are present in the package. If any items is missed or damaged, please call your DataTronix.

- 1 - DT-HDIPSSL HD IP Streamer
- 1 - Power Adapter
- 1 - User Manual

Front and Rear Panels



1	LCD Display	Configuration and system status
2	Home Button	Return to previous or Start menu
3	Left & Right Buttons	Move Right / Left between menu / characters
4	Up & Down Button	Increase / Decrease the field value, Increase / Decrease value of the password
5	Enter Button	Select parameter / menu
6	IP Output	RJ-45,GbE / 10M, 100M, 1000M
7	Ethernet Port	RJ-45,GbE / Chrome
8	Audio/Video Input *4	HDMI/ Component YPrPb(RCA) / Composite CVBS(RCA)
9	DC Input	12V DC

2.3 Direct PC/Laptop Access via Static IP

The IP streaming server will use an assigned Web IP address “192.168.1.99 “ and IP out address “192.168.2.100” for first sample the IP Setting is Static mode.

3. Operating Instructions

3.1 Beginning Setup

DEVICE Programming and Setup

1. Apply power.
2. Connect Audio / Video source

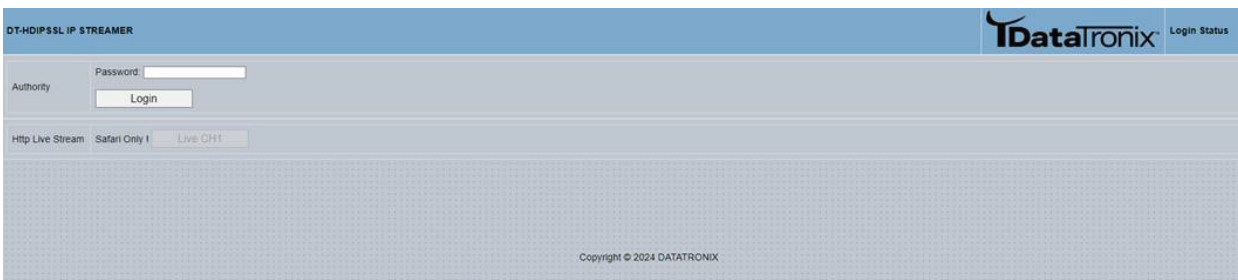
Connecting to the GUI Interface:

1. Connect an Ethernet cable directly to the Web Management Ethernet port on the rear panel of the HD IP streaming server or connect the Ethernet cable to an Ethernet switch /router. Connect an Ethernet Cable to your PC.
2. Using a Windows-based PC Select Windows Icon
3. Check Streamer IP address can be configured by using the LCD screen on the front of the unit using the right button.
4. After selecting Network- the IP streamer Icon will show up on the right side under Media Devices. Each device found will be displayed by the Device Address.
5. Right Click on the device icon, Select ‘View Device Webpage’

3.2 Login

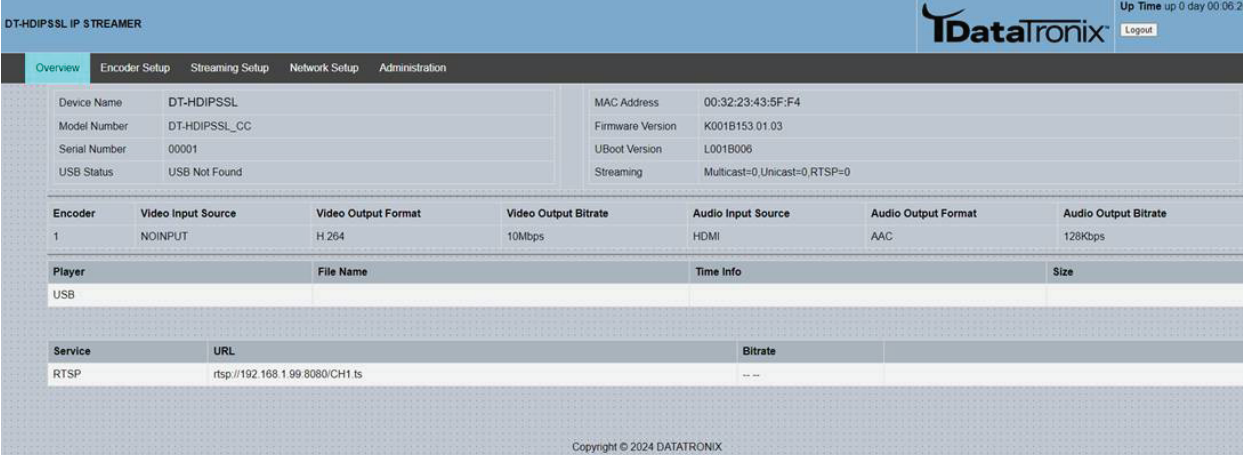
Login Password:

Default Password: 0000



3.3 Overview

Display the current status and settings for Encoder & Streaming.



DT-HDIPSSL IP STREAMER DataTronix [Logout](#) Up Time up 0 day 00:06:26

Overview Encoder Setup Streaming Setup Network Setup Administration

Device Name	DT-HDIPSSL	MAC Address	00:32:23:43:5F:F4
Model Number	DT-HDIPSSL_CC	Firmware Version	K001B153 01.03
Serial Number	00001	UBoot Version	L001B006
USB Status	USB Not Found	Streaming	Multicast=0,Unicast=0,RTSP=0

Encoder	Video Input Source	Video Output Format	Video Output Bitrate	Audio Input Source	Audio Output Format	Audio Output Bitrate
1	NOINPUT	H 264	10Mbps	HDMI	AAC	128Kbps


Player	File Name	Time Info	Size
USB			

Service	URL	Bitrate
RTSP	rtsp://192.168.1.99:8080/CH1.ts	-- --

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3.4 Encoder Setup

Use the Setting Setup Page to set the Encoder setup.



DT-HDIPSSL IP STREAMER DataTronix [Logout](#) Up Time up 0 day 00:05:18

Overview Encoder Setup Streaming Setup Network Setup Administration

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.

Encoder	Video Input	Video Input Type	Video Encode	Video Bitrate (4-13 Mbps)	Audio Encode	Audio Bitrate	Audio Volume	PMT PID	Video PID	Audio PID
1	HDMI	AUTO	H 264	10	AAC	128 Kbps	50	52	53	54

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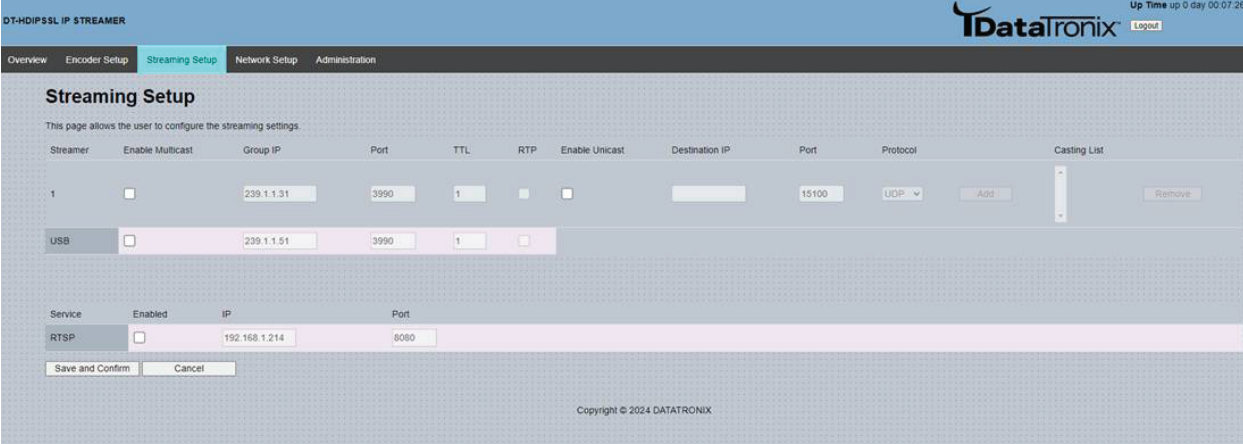
3.5 Local Save

Save and Confirm once all parameters are set.

Changes made to an individual setup tab may require the installer to perform a apply to the device if you are only making changes to one parameter of the IP streamer.



3.6 Streaming Setup



DT-HDIPSSL IP STREAMER Up Time up 0 day 00:07:28

Overview Encoder Setup **Streaming Setup** Network Setup Administration

Streaming Setup

This page allows the user to configure the streaming settings.

Streamer	Enable Multicast	Group IP	Port	TTL	RTP	Enable Unicast	Destination IP	Port	Protocol	Casting List
1	<input type="checkbox"/>	239.1.1.31	3990	1	<input type="checkbox"/>	<input type="checkbox"/>		15100	UDP	+
USB	<input type="checkbox"/>	239.1.1.51	3990	1	<input type="checkbox"/>	<input type="checkbox"/>				

Service	Enabled	IP	Port
RTSP	<input type="checkbox"/>	192.168.1.214	8080

Save and Confirm Cancel

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Use the Streaming Setup Page to setup your required streaming method.
To stream using Multicast and Unicast enabling function.

Save and Confirm all changes/settings.

Note: Default IP address (Multicast UDP) is 235.0.0.0 for streamers. Ensure when setting up the streamers that a unique Multicast UDP address is used for streamer.

3.7 Network Configuration

Use the IP Setup Tab to configure the device's IP address, Mask, Gateway, Perform apply once all parameters are set.



The screenshot shows the web interface for the DT-HDIPSSL IP STREAMER. The page title is "DT-HDIPSSL IP STREAMER" and the user is logged in. The navigation menu includes Overview, Encoder Setup, Streaming Setup, Network Setup (selected), and Administration. The main content area is titled "Network Configuration" and contains the following information:

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.

IP Out

Mode	Static
IP Address	192.168.2.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.1
DNS Server	8.8.8.8

Web Management

3.8 Administration

Selecting “Reset to default” will automatically reset all saved settings back to factory default settings.

All saved settings will be lost.

Use the Admin Setup Tab to set the device’s reboot, configuration, software update, password change.

Page Functions	Actions
Reboot Device	Reboot device
Reset to Default	Reset configuration to factory default
Configuration	User can upload the file with pre-saved configuration settings to device
Firmware Upgrade	Upload a saved firmware file
Change Password	Create and save new password for GUI

To upload a configuration file- simply click “Choose File” then locate the file you want to upload. Click “Upload” to install the configuration files. This function is helpful to the installer when installing a large number of encoders in a single system.



Saving your configuration files:

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

To upload a 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 streamer in a single system. We highly recommend saving the settings of your streamer. A “backup_param.config” file will be created. Locate the file follow up browser settings.

4. Menu Tree

4.1 Streamer Web-UI

Main		Layer 1 (Item)	Layer 2 (Default)	Layer 2 (Value)		
Encoder Setup	1	Device Name	GMI-D L NA			
	2	Program Name	CH1			
	3	Video Input	HDMI	YP bP r , C V B S , HD MI		
	4	Video Input Type	AUTO	HDMI: AUTO YP bP r: NTSC 1080i, PAL 1080i, NTSC 720P, PAL 720P, NTSC 480P, PAL 576P, NTSC 480i, PAL 576i CVBS :NTSC 480i, PAL 576i		
	5	Video Encode	H.264	H.264, MPEG-2		
	6	Video Bitrate (4-13 Mbps)	10	4-13 Mbps		
	7	Audio Encode	AAC	MPEG-2, AAC		
	8	Audio Bitrate	128 KBPS	384, 320, 256, 224, 192, 160, 128, 112, 96, 64		
	9	PMT P ID	52	50-8190		
	10	Video P ID	53	50-8190		
	11	Audio P ID	54	50-8190		
		12	Save and Confirm/Cancel			
Streaming Setup	1	MultiCasting	Enable MultiCast			
	2		Group IP	235.0.0.0		
	3		MultiCast Port	5301	1-65535	
	4		MultiCast TTL	1	1-255	
	5		Enable RTP			
	6	UniCasting	Enable UniCast			
	7		Destination IP			
	8		Destination Port	15100		
	9		Protocol	USP	UDP/RTP	
	10	Casting List	15100			
		12	Save and Confirm/Cancel			
	Network Configuration	1	IP Out	Mode	Static	DHCP, Static
2		IP Address		192.168.2.100		
3		Subnet Mask		255.255.255.0		
4		Default Gateway		192.168.2.1		
5		DNS Server		0.0.0.		
6		Web Management	Mode	Static		
7			IP Address	192.168.1.99		
8			Subnet Mask	255.255.255.0		
9		Time Setting	Default Gateway	192.168.1.1		
10			NTP Server	time.stdtime.gov.tw		
11			Time Zone	(GMT+8:00)_Taipei		
		12	IP/Timezone Save/Cancel			
		13	UPnP Settings	Device Name	GMIDLNA	
		14		HTTP/SOAP Port	8200	
		15		Set DLNA Device/Reset DLNA		
		16	DLNA Streaming Mode	DLNA Live Streaming Mode	Enable	Enable (HDMI, YP bP r, CVBS Input) Disable (USB Storage)
		17		Set DLNA Mode		

4.2 Streamer Configuration via Front Panel LCD

Main		Layer 1 (Item)	Layer 2 (Default)	Layer 2 (Value)
System	1	Device Na me	GMI-DLNA	
	2	NTP Server	time.stdtime.gov	
	3	Time Zone	Asia Taipei	
	4	HTTP/SOAP Port	08200	
	5	Change Password		
	6	Fireware Version	K001B1129	
	7	Loader Version	L001B004	
	8	Encoder Version	E001B005	
Ip Input	1	DHCP (eth0)	no	
	2	IP (eth0)	192.168.002.100	
	3	Sub Mask (eth0)	255.255.255.000	
	4	Getway (eth0)	192.168.002.001	
	5	DNS Getway (eth0)	0.0.0.0	
Web Management	1	DHCP (eth1)	no	no, yes
	2	IP (eth1)	192.168.001.009	
	3	Sub Mask (eth1)	255.255.255.000	
	4	Getway (eth1)	192.168.001.001	
	5	DNS (eth1)	0.0.0.0	
Encoder 1	1	PROG.Name	CH1	
	2	Video Input	HDMI	YPbPr, CVBS, HDMI
	3	Input Type	AUTO	HDMI: AUTO YPbPr: NTSC 1080i, PAL 1080i, NTSC 720P , PAL 720P ,NTSC 480P, PAL 576P , NTSC 480i, PAL 576i, CVBS :NTSC 480i, PAL 576i
	4	Video Encode	H.264	H.264, MPEG-2
	5	Video Bitrate	10	4-13 Mbps
	6	Audio Encode	AAC	MPEG-2, AAC
	7	Audio Bitrate	128 Kbps	384, 320, 356, 224, 192, 160, 128, 112, 96, 64
	8	PMT PID	0052	50-8190
	9	Video PID	0053	50-8190
	10	Audio PID	0054	50-8190
Streamer 1	1	Multicast	no	no, yes
	2	Multicast TTL	001	
	3	Multicast GRP	235.000.000.000	
	4	Multicast RTP	no	no, yes
	5	Multicast Port	05301	
	6	Unicast Enable	no	no, yes
	7	Unicast Protocol	UDP	UDP/RTP
	8	Unicast IP 1, 2, 3, 4	000.000.000.000	
	9	Uni-IP 1, 2, 3, 4, UDP	UDP	UDP/RTP
	10	Uni-IP 1, 2, 3, 4, Port	00001	
Factory Default	1	Restore Default?	yes	
	2	Save Configuration?	no	no, yes

5 Product Specifications

Interface	
Ethernet (output)	1 Gbps, RJ45
Video Input	HDMI, YPbPr, CVBS
Audio Input	Analog or HDMI
Encoding	
Video Format	HD:H.264 AVC/HP@L4.0 SD:MPEG-2/MP@ML
Audio Format	MPEG2/AAC
Resolution	HD: 1080P25,1080P30, 1080i 50/60 Max, SD 480i,576i
Video Bitrate	13 Mbps MAX
Audio Bitrate	384 Kbps
Input	
Video Input	HDMI:1080P 25/30, 1080i 50/60 Max, YPbPr(1080i, 720P, 576i/P , 480i/P), CVBS: NTSC, PAL
Y Input Level	1V±0.2Vp-p
Pb/Pr Input Level	0.7V±0.1Vp-p
CVBS Input Level	1V±0.2Vp-p
Output	
Streaming Protocols	UDP/RTP multicasting, UDP/RTP unicast, RTSP
Management/ Control	
Web Management	RJ45 Ethernet port
General	
Power Supply	12V DC
Power Consumption	10 W
Weight	2.31 lbs (1.05 kg)
Dimensions	8.85 x 6.29 x 1.77" (225 x 160 x 45 mm)
Language	English
Warranty	2-Year Limited Warranty



6. Warranty

DATATRONIX 2-Year Limited Warranty

DATATRONIX. (the “Company”) warrants to the Original Purchaser that the item purchased is free from defects in workmanship or material under normal use. This warranty starts on the date of shipment of the hardware to the Original Purchaser.

During the warranty period, the Company agrees to repair or replace, at its sole option, without charge to Original Purchaser, any defective component. To obtain service, the Original Purchaser must return the item to the Company properly packaged for shipping. All defective products must be returned to the Company within thirty (30) days of failure. Products must be returned with a description of the failure and Return Merchandise Authorization (RMA) number supplied by the Company. To receive a RMA number and a return shipping address on where to deliver the hardware, call 610-429-1821. The shipping, and insurance charges incurred in shipping to the Company will be paid by Original Purchaser, and all risk for the hardware shall remain with the Original Purchaser until such time as Company takes receipt of the hardware. Upon receipt, the Company will promptly repair or replace the defective unit, and then return said unit to Original Purchaser, shipping prepaid. The Company may use reconditioned or like-new parts or units, at its sole option, when repairing any hardware. Repaired products shall carry the same amount of outstanding warranty as from original purchase. Any claim under the warranty must include dated proof of purchase or invoice. In any event, the Company’s liability for defective hardware is limited to repairing or replacing the hardware.

This warranty is contingent upon proper use of the hardware by Original Purchaser and does not cover: if damage is due to Acts of God (including fire, flood, earthquake, storm, hurricane or other natural disaster), accident, unusual physical, electrical, or electromechanical stress, modifications, neglect, misuse, operation with media not approved by the Company, tampering with or altering of the hardware, riot, war, invasion, act of foreign enemies, hostilities (regardless of whether war is declared), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation, terrorist activities, nationalization, government sanction, blockage, embargo, labor dispute, strike, lockout or interruption or failure of electricity, air conditioning, or humidity control, Internet, network, or telephone service.

The warranties given herein, together with any implied warranties covering the hardware, including any warranties of merchantability or fitness for a particular purpose, are limited in duration to one year from the date of shipment to the Original Purchaser. Jurisdictions vary with regard to the enforceability of warranty limitations, and you should check the laws of your local jurisdiction to find out whether the above limitation applies to you.

The Company shall not be liable to your for loss of data, loss of profits, lost savings, special, incidental, consequential, indirect, or other similar damages arising from breach of warranty, breach of contract, negligence, or other legal action even if the Company or its agent has been advised of



the possibility of such damages, or for any claim brought against you by another party. Jurisdictions vary with regard to the enforceability of provisions excluding or limiting liability for incidental or consequential damages. You should check the laws of your local jurisdiction to find out whether the above exclusion applies to you.

This warranty allocates risks of product failure between Original Purchaser and the Company. The Company's hardware pricing reflects this allocation of risk and the limitations of liability contained in this warranty. The warranty set forth above is in lieu of all other express warranties, whether oral or written. The agents, employees, distributors, and dealers of the Company are not authorized to make modification to this warranty, or additional warranties binding on the Company. Accordingly, additional statements such as dealer advertising or presentations, whether oral or written, do not constitute warranties by the Company and should not be relied upon. This warranty gives you specific legal rights. You may also have other rights which vary from one jurisdiction to another.