

# INSTALLATION & CONFIGURATION MANUAL

## **ZyCast** **HDIP-800RJ** **Live Streaming RTMP/S Encoder**



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## Safety Precaution



*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.
- ❖ 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 HDIP-800RJ
- ❖ One 12VDC 1.5A Power Adapter
- ❖ One installation / configuration manual

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

## **Section 1 Introduction to HDIP-800RJ**

**ZyCast**'s new HDIP-800RJ Professional HD IP Live Streamer allows users to send live RTMP/S streams to three (3) different URLs simultaneously. The Live 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.

The HDIP-800RJ HD Encoder enables high-definition streaming with resolutions up to 1080p over a LAN System providing a high-quality viewing experience for your customer.

### **Features**

**The HDIP-800RJ series features:**

- \* Video resolution up to 1080p**
- \* HDMI, Component, Composite inputs with auto detection**
- \* Variable Bit Rate Control**
- \* H.264 Profile Control**
- \* AAC Video Codec**
- \* GUI for setup and control**
- \* GigE output port**
- \* Front panel LED Status Display**

## Specifications

Video/Audio Input		
HDMI		
	Connectors	Single
Component		
	Connectors	Single
Composite		
	Connectors	Single
Analog Audio		
	Connectors	L & R
IP Output & Web Management		
GigE		
	Connector	RJ-45
	Standard	100/1000Base-T Ethernet, Full / Half Duplex, Auto-Negotiation
	IP Streaming Protocol	RTMP/RTMPS
	Management Protocol	HTTP/UPnP

Video / Audio Encoding Profile	
Video	
Input Resolution	1080p / 1080i / 720p / 576p / 480p / 576i / 480i
Output Resolution	1080p / 720p / 576p / 480p (Deinterlace)
Video Codecs H.264 (HD)	> 1080p30, HP@Level 4.2 / ≤1080p30, HP@Level 4 >720p30, MP@Level 3.2 / ≤720p30, MP@Level 3.1
Video Codecs H.264 (SD)	Frame Rate≥25, BP@Level 3.1 / <25, BP@ Level 2.2 (Default)
Aspect Ratio	4:3 & 16:9
Video Bitrate	H.264: 2.0~10.0 Mbps (HD) / 1.0~4.0 Mbps (SD)
Audio (Only Support 44.1 kHz Sampling Frequency)	
Audio Codecs	AAC
General	
Local Monitoring	8 LEDs
GUI Supported	FireFox, Chrome
Password Protected	GUI: Changeable
Fan Cooled	Internal
Power Supply	12VDC 1.5Amp
Consumption	5W Typical
Dimension	1RU, Housing: 236mm x 145mm x 35mm
Language	English

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

## Section 2 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 (Video Camera, Satellite STB, Media player, or other media device) to the HDIP-800RJ via HDMI, Component, or CVBS (Composite) cable.
2. Connect the HDIP-800RJ to the network.
3. Plug the power adapter to the device and power up.
4. Network Setup

### Limitations

1. The HDIP-800RJ can stream live up to 3 CDNs at once.

## Front View



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"> <li>1.Press and hold the RST/UPG button and boot-up the device</li> <li>2.Hold the button until CFG led to flashes 10 times (about 10 seconds)</li> <li>3.After the CFG led stops flashing release the button</li> </ol> <p>To upgrade firmware using the USB port:</p> <ol style="list-style-type: none"> <li>1.Plug-in the USB drive with the upgraded firmware image ("hdip_upg.img")</li> <li>2.Press and hold the RST/UPG button and boot-up the device</li> <li>3.USB led will flash while copying the image from USB drive (about 3~5 seconds)</li> <li>4.Wait until the CFG led stop flashing</li> <li>5.Release the RST/CFG button and wait for the device to reboot and upgrade the firmware (about 1 minutes)</li> </ol>
PWR	LED ON indicates Power is ON
CFG	LED ON indicates device is in configuration mode
USB	LED ON indicates USB drive is mounted
Video	LED ON indicates device is encoding video using H.264, flashing when free run
Audio	LED ON indicates device is encoding audio using AAC+44.1k, others shows LED OFF
Stream 1	LED ON indicates RTMP1 in connection
Stream 2	LED ON indicates RTMP2 in connection
Stream 3	LED ON indicates RTMP3 in connection




## Procedure to connect to the Streaming Server via the Network port

### Factory Default IP: 192.168.1.9

1. Connect a standard CAT6e cable from HDIP-800RJ Network port directly to a PC.  
Connect using an ethernet cable to the device's remote setup port either directly to a laptop or PC or connect the device into the network.
2. Modify your PC/Laptop IP address to 192.168.1.11.  
Confirm your device is on the same IP scheme as the HDME-I/P-3's default IP.
3. Enter '192.168.1.9' into your web browser.  
Open a web browser such as Chrome, Firefox. Enter the devices default IP address in the browser.

## Section 3 Configuring the HDIP-800RJ

### Overview Page



2020-05-19 11:02:57  
GMT+0800 (CST)  
Up 7 days 17 hours

Overview Encoder Setup Streaming Setup Network Setup Administration

Welcome!

Device Name:	HDIP068282	Output SRC IP:	192.168.8.201
Program Name:	DEMO-TV	Streaming:	
Model Number:	HDIP-800RJ		
Serial Number:	1435 068282		
MAC Address:	F8:0D:EA:41:0A:BA		
Firmware Version:	202005110921		

---

	Video	Audio
Input Source	HDMI / 1080p60	Analog
Output Format	H.264 / 1080p60	MPEG-4 AAC / 44.1 KHz
Output Bitrate	4.000 Mbps	128 Kbps
Actual Output	4.601 Mbps	
Encoder Status	OK	
Clients	0	

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The Overview page of the HDIP-800RJ offers a quick status of the device.

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-800RJ. To turn off, simply press the LED tool again.

## Welcome! ●

<b>Device Name:</b>	HDIP068282
<b>Program Name:</b>	DEMO-TV
<b>Model Number:</b>	HDIP-800RJ
<b>Serial Number:</b>	1435 068282
<b>MAC Address:</b>	F8:0D:EA:41:0A:BA
<b>Firmware Version:</b>	202005110921

### Login User and Password

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

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.



The server http://169.254.22.129:8888 requires a username and password. The server says: Protected.


User Name:

Password:

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

## Section 4 Encoder Setup

Use the Encoder Setup page to Set Video Input Type, Video Output Type, Video Output Resolution, Framerate, Profile, Video Bitrate, and other encoder parameters.



2020-05-19 11:06:07  
 GMT+0800 (CST)  
 Up 7 days 17 hours

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.

#### Video Control

Video Input:	Auto detect	▼
Video Output:	H.264	▼
Resolution:	Same as Input	▼
Framerate:	Same as Input	▼
H.264 Profile:	Default	▼
HD Bitrate:	4.000	▼ Mbps (2~10)
SD Bitrate:	4.000	▼ Mbps (1~4)
Aspect Ratio:	16:9	▼

#### Audio Control

Audio Input:	Analog	▼
Audio Bitrate:	128 Kbps	▼

#### Color Control

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

#### MISC

HDCP(test mode):	<input checked="" type="checkbox"/>
------------------	-------------------------------------

Save and Confirm
Cancel

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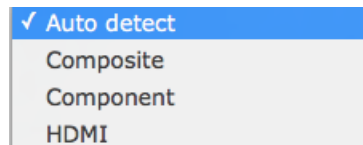
### Saving Changes

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

## Video Control

### Video Input: Select Video Input.

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

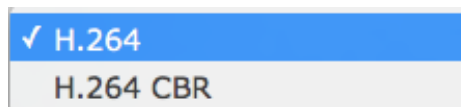


Selecting HDMI, Component, or Composite “locks” the encoder to detect only the input type selected.

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

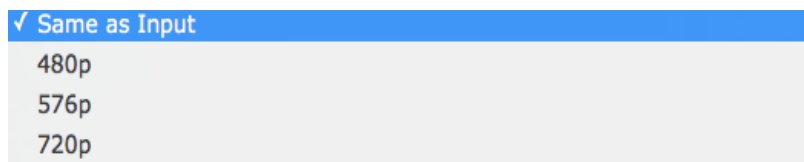
### Video Output: Select Video Output.

The HDIP-800RJ outputs High Quality HD/SD video streams in H.264 and H.264 CBR formats.



**Video Output Format: Factory Default: H.264 CBR**

### Resolution: Select Resolution required.



**Resolutions:** 480i/480p/576i/576p/720p/1080i/1080p (for 1080i/p – select “Same as Input”)

Note: The HDIP-800RJ can scale down the input video content.

**Frame rate: Select Frame rate required.**

✓ Same as Input
NTSC: 30 fps, PAL: 25 fps
NTSC: 15 fps, PAL: 12.5 fps
10 fps
NTSC: 7.5 fps, PAL: 6 fps

The HDIP-800RJ also offers Frame rate control.

## H.264 Profile

The HDIP-800RJ offers Profile if **H.264** is the Video Output type.

**H.264 Profile: Select H.264 Profile as required. (Factory Default: Default)**

✓ Default
BASE
MAIN
HIGH

**Set Video Bitrate: HD / SD**

## H.264 Video Bitrates

HD: 2 ~10 Mbps (default- 4 Mbps)

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

<b>HD Bitrate:</b>	<input type="text" value="4.000"/>	Mbps (2~10)
<b>SD Bitrate:</b>	<input type="text" value="4.000"/>	Mbps (1~4)

*Set Video Bitrate or use the default settings as required.*

**Aspect ratio: Select Aspect ratio**

4:3
✓ 16:9

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

## Audio Control

Audio Input: Select Audio Input

### Auto detect

Analog

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

Audio Bitrate: Select Audio Bitrate

96 Kbps
✓ 128 Kbps
192 Kbps
256 Kbps
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.

**Factory Default: 128**

**SAVE AND CONFIRM ALL CHANGES MADE ON THE ENCODER PAGE**

Save and Confirm	Cancel
------------------	--------

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

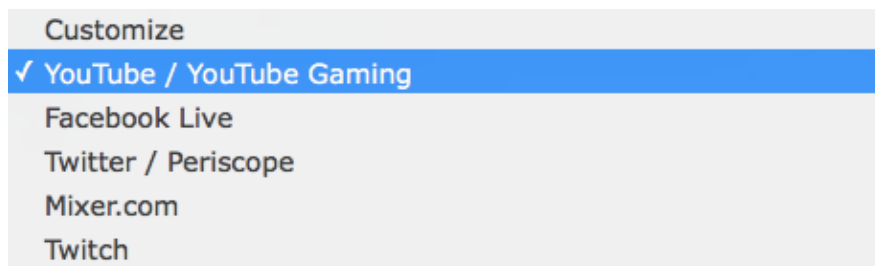
**Note:** To reset all changes made or saved go to the Administration Page and select '**Reset to Default**'.

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

## Section 5 Streaming Setup

The HDIP-800RJ was designed to allow the user to stream simultaneously to 3 CDN's at once.

1. **Select** from the drop-down tool for Stream Service and select either a preset Stream service or a "custom" (CDN) not listed or shown in the drop down.



Note: Select Custom if your CDN is not listed in the drop-down list above.

2. **Copy, paste, and enter** the Stream key for your stream.

3. Select "Add" once the Stream Key has been added.

The added URL will be displayed in the RTMP List.

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

To remove a stream from the RTMP list simply select the stream and click '**Remove**'.

Facebook, Facebook Live, Twitter/Periscope, Twitch, YouTube, Livestream, and all other entities mentioned are registered trademarks of the listed entities.

## Section 6 Network Configuration



2020-05-19 11:16:24  
GMT+0800 (CST)  
Up 7 days 17 hours

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

### 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.

**RECOMMENDATION:**

- DO NOT setup the same network segment on both network interfaces
- DO NOT setup default gateways on both network interfaces at the same time

#### Device Network

Hostname:	<input type="text" value="HDIP068282"/>
MAC Address:	<input type="text" value="F8:0D:EA:41:0A:BA"/>
Enable DHCP:	<input type="checkbox"/>
IP Address:	<input type="text" value="192.168.8.201"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Default Gateway:	<input type="text" value="192.168.8.254"/>
DNS Server:	<input type="text" value="8.8.8.8"/>
NTP Server:	<input type="text" value="time.stdtime.gov.tw"/>
Time Zone:	<input type="text" value="(GMT+08:00) Taipei"/>
Speed & Duplex:	<input type="text" value="Auto"/>

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### Device Network

#### Host Name

User definable. If required enter a new Host Name.

#### Device IP Address (Factory Default: Static IP 192.168.1.9)

#### DHCP

To Enable DHCP check the DHCP Checkbox.



### Setting Static IP

1. To set a Static IP '**Uncheck** ' *Enable DHCP*'.
2. Enter IP Address, Subnet Mask, Default Gateway, and DNS Server.
3. **SAVE AND CONFIRM** all changes made on the Network Configuration page.

### NTP Server

Enter NTP Server address.

### Time Zone

**Select** required Time Zone.

### Speed & Duplex

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

Factory Default: Auto

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

## Section 7 Administration



2020-05-19 11:19:02  
GMT+0800 (CST)  
Up 7 days 17 hours

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

### Administration

Reboot Device

Reset to default

Reset configuration to factory default.

### Backup and Restore Configuration

Configurations:

Backup

Backup and download current configuration settings to a local file.

Restore:

Choose file

Upload settings

Upload the pre-saved configuration settings to device.

### Firmware Upgrade

Model Number: HDIP-800RJ

Serial No.: 1435 068282

Firmware Ver.: 202005110921

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.

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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.

## 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.

## 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.

#### Backup and Restore Configuration

Configurations:	<input type="button" value="Backup"/>	Backup and download current configuration settings to a local file.
Restore:	<input type="button" value="Choose file"/>	
	<input type="button" value="Upload settings"/>	Upload the pre-saved configuration settings to device.

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

### Backup

We highly recommend saving your device's setting.

1. Select Administration tab.
2. Select backup from the menu.
3. Locate and name file for future use.

### Restore

1. Select Administration tab.
2. Select “Choose file” menu.
3. Locate the required file to be imported.
4. Select “Upload settings” to import the selected file into the device.

**Note:** backup can be imported to assist in setting up new or multiple devices onsite.

Remember to save and backup any and all changes.

## Firmware Upgrade

### Firmware Upgrade

Model Number:	HDIP-800RJ
Serial No.:	1435 068282
Firmware Ver.:	202005110921
Firmware Image:	<div>Choose file</div> <div>Upload image</div>

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

Use the Firmware upgrade function to import new FW versions.

1. Select Administration tab.
2. Select "Choose file" menu.
3. Locate the required image file to be imported.
4. Select "Upload image" to import the selected file into the device.

## 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:	<input type="password"/>
New Password:	<input type="password"/>
Retype New Password:	<input type="password"/>

Save and Confirm

Ch

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 Change Password section to change or modify the device's password as desired.

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

## Section 8 Streaming Examples

### Streaming Setup Example: YouTube Live Streaming

**Step 1:** On the Streaming Setup page **select** “YouTube”

#### RTMP Client

Stream Service:

Customize

**YouTube**

Facebook Live

Twitter / Periscope

Mixer.com

Twitch

Server:

URL:

rtmp://a.rtmp.youtube.com/live2

Stream key:

Add

RTMP List:

YouTube

Remove

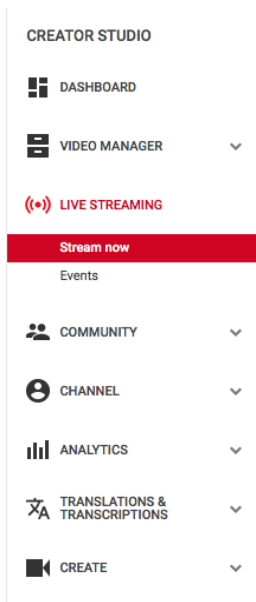
1 / 3

Save and Confirm

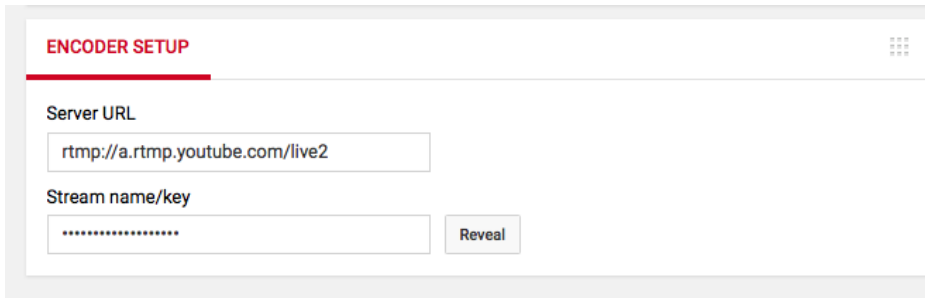
Cancel

**Step 2:** Open your Youtube Live DashBoard on any browser.

**Step 3:** Select ‘Live Streaming’ Stream Now.



**Step 4: Scroll Down to locate Encoder Setup.**

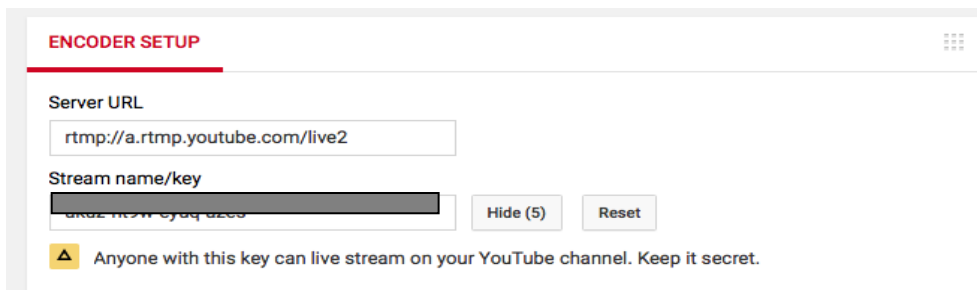


**ENCODER SETUP**

Server URL  
rtmp://a.rtmp.youtube.com/live2

Stream name/key  
\*\*\*\*\* Reveal

**Step 5: Select Reveal 'Stream name/key'.**



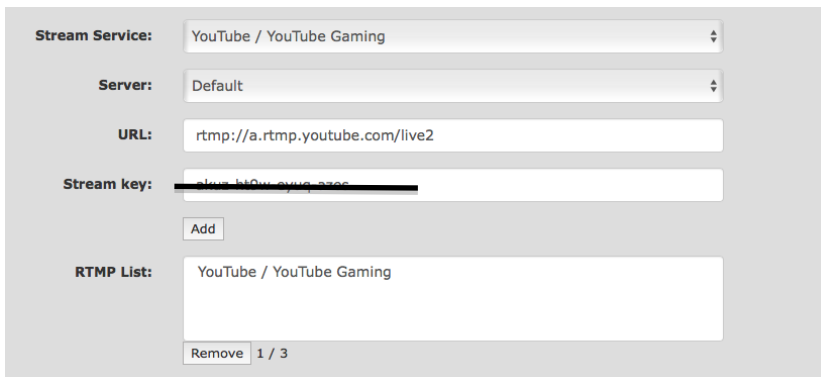
**ENCODER SETUP**

Server URL  
rtmp://a.rtmp.youtube.com/live2

Stream name/key  
akg2-h2w-eyuq-azec Hide (5) Reset

⚠ Anyone with this key can live stream on your YouTube channel. Keep it secret.

**Step 6: Copy and Paste Stream Key into HDIP-800RJ Stream Key IO field.**



**Stream Service:** YouTube / YouTube Gaming

**Server:** Default

**URL:** rtmp://a.rtmp.youtube.com/live2

**Stream key:** akg2-h2w-eyuq-azec Add

**RTMP List:** YouTube / YouTube Gaming

Remove 1 / 3

**Step 7: Click Add to add the YouTube Live Stream to the RTMP List.**

**Step 8:** Select Save and Confirm.

Welcome! ●

<b>Device Name:</b>	HDIP068282	<b>Output SRC IP:</b>	192.168.8.201
<b>Program Name:</b>	DEMO-TV	<b>Streaming:</b>	YouTube (Streaming)
<b>Model Number:</b>	HDIP-800RJ		
<b>Serial Number:</b>	1435 068282		
<b>MAC Address:</b>	F8:0D:EA:41:0A:BA		
<b>Firmware Version:</b>	202005110921		

**Note:** You can check the Overview page to see the status of the stream.

## Streaming Setup Example: Twitch Streaming

**Step 1:** On the Streaming Setup page **select** "Twitch"

### RTMP Client

**Stream Service:** Twitch

**Server:** US East: New York, NY

**URL:** rtmp://live-jfk.twitch.tv/app

**Step 2:** Select the local Twitch Server for your loction.

**Step 3:** Open the Twitch DashBoard.

#### Step 4: Select Setting then Stream Key

#### Step 5: Select Show Key then Click “I Understand.”

Stream Key

**Never share your stream key with anyone or show it on stream!**  
**Twitch Staff, Admins, or Global Moderators will never ask you for this information.**

Please click “I Understand” if you understand the above and would like to view your stream key.

I Understand

#### Step 6: Copy and Paste Stream Key into HDIP-800RT Stream Key IO field.

Stream Key

**Never share your stream key with anyone or show it on stream!**  
**Twitch Staff, Admins, or Global Moderators will never ask you for this information.**

Please click “I Understand” if you understand the above and would like to view your stream key.

Stream Key:

Reset Key

#### Step 7: Click Add to add the Twitch Stream to the RTMP List.

#### Step 8: Select Save and Confirm.



## Streaming Setup Example: Facebook Live Streaming

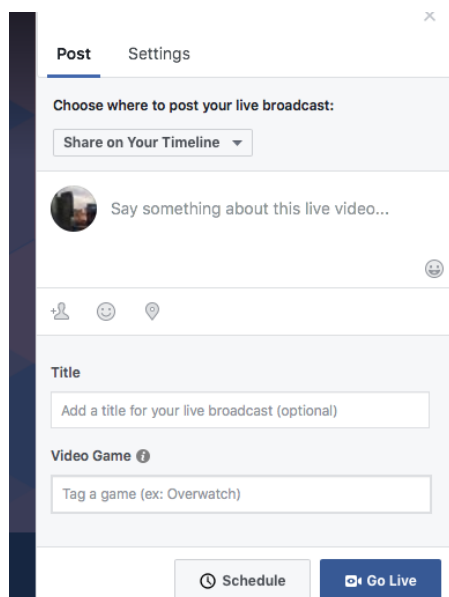
**Step 1:** On the Streaming Setup page **select** "Facebook"

**Step 2:** Using

**Step 6:** Click Add to add the Twitch Stream to the RTMP List.

**Step 7:** Select Save and Confirm.

**Step 8:** Click GoLive on the bottom right of th page.



Note: Users who stream temporarily will need to remove the Facebook RTMP from the list and acquire a New Stream key before streaming live again.

## Custom Streaming

### Streaming Setup Example:

The HDIP-800RJ can stream to almost any CDN. Those CDN's not listed can be manually added using the Customize Stream Service Type.

**Step 1:** On the Streaming Setup page **select** "Customize"

**Step 2:** **Copy and Paste** the Stream URL int URL IO field.

**Step 3:** **Copy and Paste** the Stream Key.

**Step 4:** Click **Add** to add the Stream to th RTMP List.

**Step 5:** **Select** Save and Confirm.

<b>Stream Service:</b>	Customize
<b>Server:</b>	
<b>URL:</b>	rtmp://rtmpin.livestreamingest.com/rtmpin
<b>Stream key:</b>	49n-ryv-znd-r4e?p=0
	<input type="button" value="Add"/>
<b>RTMP List:</b>	YouTube / YouTube Gaming Twitch (US East: New York, NY) Customize
	<input type="button" value="Remove"/> 3 / 3

The above example used LiveStream RTMP Ingest URL.

### Private Address Ranges, IPv4

Private IPv4 addresses are addresses set aside by the IANA (Internet Assigned Numbers Authority) for use within networks that will not directly communicate or not be seen by the internet. These private addresses cannot be used on the Internet or be used to communicate with the Internet. ISP's filter out and delete packets using private IP addresses. Any organization that uses private IP addresses on devices that communicate with the internet must use a device that performs Network Address Translation.

Anyone can use private addresses and they are not required to seek permission to use them. Again, networks using private IP addresses cannot communicate directly with the internet.

There are three blocks of addresses that are set aside by IANA for use in private internets and are not publicly routable on the global internet:

Private Class A Range: 10.0.0.0 - 10.255.255.255  
Private Class B Range: 172.16.0.0 - 172.31.255.255  
Private Class C Range: 192.168.0.0 - 192.168.255.255

It is important to note that only *some* of the 172.xx.xx.xx and the 192.xx.xx.xx address ranges are designated for private use. The remaining addresses are public and can be routable via the global Internet.

More information regarding private addresses can be found at <http://www.iana.org> and <https://www.arin.net>.

For More information on ZyCast products visit: **[www.zycasttech.com](http://www.zycasttech.com)**

## PRODUCT NOTES

ITEM	VALUE
USERNAME / PASSWORD	
SERIAL NUMBER	
INSTALLATION DATE	
PURCHASE DATE	
DEVICE NAME	
FIRMWARE VERSION	
Device IP Address	

Distributed by: