

INSTALLATION & CONFIGURATION MANUAL

ZyCast

HDIP-800RJ

Live Streaming RTMP/S, RTP, UDP Encoder



ZyCast Technology, Inc. No. 33, Lane 181, Chung Hwa Road Section 4, Hsin Chu, Taiwan 30060 Tel: +886-3-5400-949 Fax: +886-3-5400-413 E-mail: info@zycast.com.tw www.zycast.com.tw



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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 will also simulcast via RTP/UDP (Unicast/Multicast) to Local network.

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	<u>.</u>
Connectors	Single
Analog Audio	<u>.</u>
Connectors	L&R
IP Output & Web Managem	nent
GigE	
Connector	RJ-45
Standard	100/1000Base-T Ethernet, Full / Half Duplex, Auto-Negotiation
IP Streaming Protocol	RTMP/RTMPS/RTP/UDP
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 kF	Iz Sampling Frequency)
Audio Codecs	AAC
General	
Local Monitoring	8 LEDs
Local Monitoring GUI Supported	8 LEDs FireFox, Chrome
Local Monitoring GUI Supported Password Protected	8 LEDs FireFox, Chrome GUI: Changeable
Local Monitoring GUI Supported Password Protected Fan Cooled	8 LEDs FireFox, Chrome GUI: Changeable Internal
Local Monitoring GUI Supported Password Protected Fan Cooled Power Supply	8 LEDs FireFox, Chrome GUI: Changeable Internal 12VDC 1.5Amp
Local Monitoring GUI Supported Password Protected Fan Cooled Power Supply Consumption	8 LEDs FireFox, Chrome GUI: Changeable Internal 12VDC 1.5Amp 5W Typical
Local Monitoring GUI Supported Password Protected Fan Cooled Power Supply Consumption Dimension	8 LEDs FireFox, Chrome GUI: Changeable Internal 12VDC 1.5Amp 5W Typical 1RU, Housing: 236mm x 145mm x 35mm

*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 & 3 UDP/RTP streams at once.



Front View



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: Press and hold the RST/UPG button and boot-up the device Hold the button until CFG led to flashes 10 times (about 10 seconds) After the CFG led stops flashing release the button To upgrade firmware using the USB port: Plug-in the USB drive with the upgraded firmware image ("hdip_upg.img") Press and hold the RST/UPG button and boot-up the device USB led will flash while copying the image from USB drive (about 3~5 seconds) Wait until the CFG led stop flashing Release the RST/CFG button and wait for the device to reboot and upgrade the firmware (about 1 minutes)
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

yCast IP		2020-05-19 11:02 GMT+0800 (C Up 7 days 17 ho
Overview Encoder Sel	tup Streaming Setup Network Setup	o 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	ОК	
Clients	0	
	Capyright © 2	2020 ZyCast Technology Inc.

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!

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

Authentication Re	quired	X
The server http://) password. The ser	169.254.22.129:8888 requires a username ver says: Protected.	e and
User Name: Password:	admin ******	
	Log In Canc	el

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.

ZyCast /P		2020-05-19 11:06:07 GMT+0800 (CST) Up 7 days 17 hours
Overview Encoder Setup Stre	aming Setup Network Setup Administration	
Encoder Setup This page allows the user to configure th the new settings.	e encoder's settings. After changes are made use the Save and Confirm button. The	encoder will reboot and apply
Video Control		
Video Input:	Auto detect	
Video Output:	н.264 У	
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	
	10	
MISC		
HDCP(test mode):	Ø	
Save and Confirm C	ancel	

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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 Input: Select Video Input.

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

✓ Auto detect	
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.'

Video Output: Select Video Output.

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

1	H.264	
	H.264 CBR	

Video Output Format: Factory Default: H.264 CBR

Resolution: Select Resolution required.

1	Same as Input
	480p
	576p
	720p

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)

1	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)

HD Bitrate:	4.000	٢	Mbps (2~10)
SD Bitrate:	4.000	٢	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

	384 Kbps	
	256 Kbps	
	192 Kbps	
1	128 Kbps	
	96 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.

	Customize
1	YouTube / YouTube Gaming
	Facebook Live
	Twitter / Periscope
	Mixer.com
	Twitch

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.

Stream key:		
	Add	

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 Broadcasting Configuration

Protocol:	UDP Multi	casting 1 Select Protocol type from drop down	\$	226.1.1.1
Destination IP:	2	type address here: example: "224.1.1.1"		224.1.1.2 224.1.1.3 224.1.1.4
Destination Port:	1234 3	put port address here	٢	239.1.10.1
Multicast TTL:	4 4	skip as 4 should be a good TTL #	٢	
	Add 5	Press "Add"		
Streaming List:	udp://22	4.1.1.1:1234		
	adde	d multicast and Unicast addresses will be shown here		
C	Remove 1	. / 16		



Section 7 Network Configuration

ZyCast /P			20	20-05-19 11:16:24 GMT+0800 (CST) Jp 7 days 17 hours
Overview Encoder Setup S	Streaming Setup	Network Setup	Administration	
Network Setu) the encoder's net	work settings.		
CAUTION: Incorrect setting provided on the next page	ngs may caus e.	e the encoder	to lose network connectivity. Recovery options w	ll be
RECOMMENDATION: • DO NOT setup the sa • DO NOT setup default	me network se t gateways on	egment on bot both network	th network interfaces interfaces at the same time	
Device Network				
Hostname:	HDIP068282			
MAC Address:	F8:0D:EA:41:0	A:BA		
Enable DHCP:				
Subnet Mask:	255.255.255	5.0		
Default Gateway:	192.168.8.2	54		
DNS Server:	8.8.8.8			
NTP Server:	time.stdtime	e.gov.tw		
Time Zone:	(GMT+08:0	0) Taipei	×	
Speed & Duplex:	Auto		×	
Save and Confirm	Cancel			
		Copyright © 202	20 ZyCast Technology Inc.	

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 8 Administration

ZyCast /P			2020-05-19 11:19:02 GMT+0800 (CST) Up 7 days 17 hours
Overview Encoder Setup S	Streaming Setup	Network Setup	Administration
Administration Reboot Device	1		
Reset to default Reset configuration to factory default.			
Backup and Restore (^{Configurations:}	Configurati Backup	on	Backup and download current configuration settings to a local file.
Restore:	Choose file	IS	Upload the pre-saved configuration settings to device.
Firmware Upgrade Model Number: Serial No.:	HDIP-800RJ 1435 068282		
Firmware Ver.: Firmware Image:	202005110921		To unorade the device's firmware, select the required firmware
Change Password CAUTION: The new pass 6~8 characters At least one digit At least one uppercas At least one lowercas	word must con e character e character	tain:	
Old Password: New Password:			
Retype New Password:	Save and Gree	firm	
After changing the password use the S Overview page allowing the user to us	Save and Confirm bu	utton. The browse	r will redirect to the
		Copyright © 202	0 ZyCast Technology Inc.

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:	Backup	Backup and download current configuration settings to a local file.
Restore:	🖀 Choose file	
	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.
- 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





HDIP-800RJ Manual Version 2.0



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:	
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.

Change 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 9 Streaming Examples

Streaming Setup Example: YouTube Live Streaming

Step 1: On the Streaming Setup page select "YouTube"



RTMP Client

	Customize			
Stream Service:	YouTube			
Server:	Facebook Live Twitter / Periscope Mixer.com Twitch			
URL:	rtmp://a.rtmp.youtube.com/live2			
Stream key:				
	Add			
RTMP List:	YouTube			
	~			
	Remove 1 / 3			

RTMP Client Customize Stream Service: ✓ YouTube / YouTube Gaming Facebook Live Server: Twitter / Periscope Mixer.com URL: Twitch Stream key: Add **RTMP List:** Remove 0/3 Save and Confirm Cancel

Step 2:

CREATOR STUDIO

CHANNEL

ANALYTICS

CREATE

XA TRANSLATIONS & TRANSCRIPTIONS

~

~

~

Step 3:

Copen your Youtube Live DashBoard on any browser.
Copen your Youtube Live DashBoard on any browser.
Select 'Live Streaming' Stream Now.

Copen your Youtube Live DashBoard on any browser.

Select 'Live Streaming' Stream Now.

Stream now
Events



Step 4: Scroll Down to locate Encoder Setup.

ENCODER SETUP		
Server URL		
rtmp://a.rtmp.youtube.com/live2		
Stream name/key		
	Devel	

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

erver URL			
rtmp://a.rtmp.youtube.com/live2			
Stream name/key			
akuz nisw cyud azes	Hide (5)	Reset	

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:	sina hton ayuq sass	
	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.



≯





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.

		▼ Vodcast
Go Live Notification 140	Show more posts	
LarryRufo went live!		Broadcast pre-recorded videos on your channel
		page and chat with viewers
Many You can only send one notification per stream.	 Video Preview 	Add Videos
Game/Category	055	
Q Search for a game or category	OFFLIN	▼ Chat
Communities		
Q add up to 3 communities		E. larryrufo
Language Restrict Chat Language	ikats da 5.	Introducing: AutoMod X
Pick a Language \$		AutoMod automatically holds risky messages for
Your content must follow our guidelines		mods to review, and viewers only see the ones mods allow
ager Update Information	▼ Stats	
	an addition	Go to settings
	U Offline	
 Stream Health 	C Offline	
asts	69 Views	
You are currently not online. Start streaming live	0 Followers	
or run a stream test to see live data.		Send a message
Learn how to run a stream test		
	▼ Host	🗘 🏚 🗉 Chat
Offling View Datails in Twitch Inspector		

Step 4: Select Setting then Stream Key

Dashboard	Settings
Stats	STREAM PREFERENCES
Stream Summary -	Stream Key
Events	Some broadcasting applications require your stream key in order to connect and broadcast to your Twitch channel.
Permissions	Store Past Broadcasts
Extensions	
Settings	

Step 5: Select Show Key then Click "I Understand."



Stream I	Key
----------	-----







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

Stream Service:	Twitch	\$	
Server:	US East: New York, NY	*	
URL:	rtmp://live-jfk.twitch.tv/app		
Stream key:			
	Add		
RTMP List:	YouTube / YouTube Gaming Twitch (US East: New York, NY)		
	Remove 2/3		

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.



	lere to post your in	ve broadcast:	
Share or	Your Timeline 🔻		
🕞 s	ay something ab	out this live v	ideo
			-
-1 🙂	0		
Title			
Add a titl	e for your live broad	dcast (optional)	
Video Gam	e 🛈		

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.



Stream Service:	Customize	\$
Server:		\$
URL:	rtmp://rtmpin.livestreamingest.com/rtmpin	
Stream key:	49n-ryv-znd-r4e?p=0	
	Add	
RTMP List:	YouTube / YouTube Gaming Twitch (US East: New York, NY) Customize	
	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 us 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



PRODUCT NOTES

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

Distributed by: