



BR-800 ProHD BROADCASTER

Basic Setup Manual

V1.0

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Chapter 1. BR-800 Product Overview

ProHD Broadcaster, powered by Zixi, is the centerpiece for high quality IP video over the internet. This Broadcaster server receives streams from ProHD cameras and delivers them to decoders and content delivery (CDN) ingest points. Broadcaster includes a wide array of video processing features, including transcoding, time shifting, VOD playout, recording functionality and stream switching. Its friendly web interface simplifies management of multiple sources and stream destinations while providing advanced content-aware correction compatible with Zixi-enabled JVC cameras.

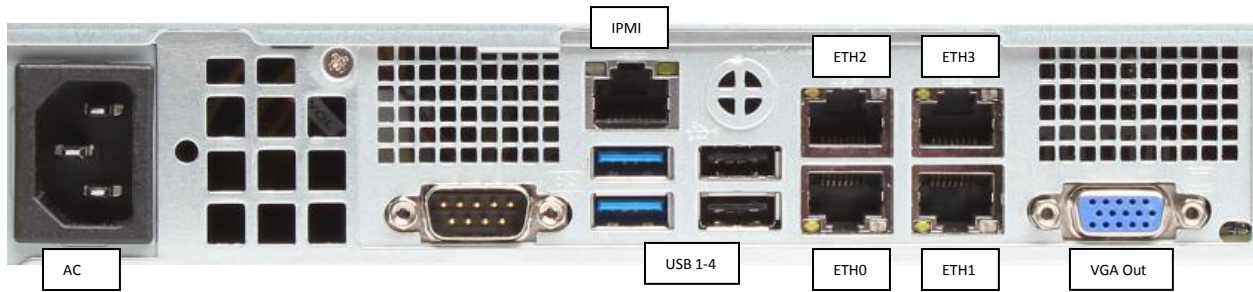
- Accepts multiple input streams from ProHD Camcorders (GY-HM650 v3.0, GY-HM850, GY-HM890)
- Accepts stream from iOS and Android smart phones (with appropriate APP)
- Multiple stream output (MPEG-TS, MP4, HLS, HDS, and MPEG-DASH)
- Provides real time transcoding on output
- Matrix switching capability
- Stores inbound streams locally
- Friendly, robust web user interface
- Zixi compatible QOS and Error Correction



Fig. 1. Front view



Fig. 2. Rear view



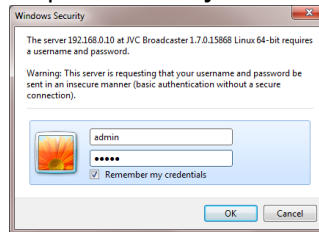
Inputs and Outputs¹

Interface	Type	Description/Usage
ETH0	RJ-45	Ethernet port for receiving streaming input Default IP: 192.168.0.10:8080
ETH1	RJ-45	Ethernet port for receiving streaming input Default IP: DHCP enabled
ETH2	R-45	Ethernet port for receiving streaming input Default IP: DHCP enabled
ETH3	RJ-45	Ethernet port for receiving streaming input Default IP: 192.169.1.10:8080
IPMI	RJ-45	Hardware management port Default IP: 192.168.50.51
USB 1-4	USB	Mouse and keyboard interface
VGA Out	15-pin	Connect to monitor
AC	3-pin	Electrical mains

¹Starting with firmware 1.7.0.15868.

Chapter 2. Initial Setup

1. Connect AC cord to the AC input and plug in to power source.
2. Turn on the power by pressing the **V** button on the front of the unit.
3. Connect the network port labeled ETH0 to a computer in the 192.168.0.x range with subnet 255.255.255.0.
4. Open up a web browser and direct it to the IP address of the unit: **192.168.0.10:8080**.
5. The default username is **“admin”** and password is **“jvc1234”**.



How to configure the network settings for the first time:

1. Click on the **Settings > General Settings** from the ProHD Broadcaster. The default web server port is **8080**, Input port is **2088** and Output port is **2077**.
2. Depending on the cellular carrier or cable provider blocking certain ports, the web server port may have to be changed to access the server from outside network.
3. Click **Apply** to make changes. Make note of changes made to General and Network settings.
4. Click on **Status** tab and click **Restart** to store changes.

ProHD Broadcaster Version 1.7.0.15868 Linux 64-bit JVC Powered by [Zixi](#)
CPU: 3.31%

Status Inputs Outputs Adaptive VOD Files **Settings** Event Log

Settings Export Import Reset Settings

General settings

ID: Demo3

Web server port: 8080

Admin password: *****

User password: *****

Input ports: 2088

Output ports: 2077

Root folder: /files

Apply

Network settings

SNMP settings

NTP settings

File Transfer & VOD

Reports

Logging

Live HTTP Outputs

Authorization

ProHD Broadcaster Version 1.7.0.15868 Linux 64-bit JVC Powered by [Zixi](#)
CPU: 3.06%

Status Inputs Outputs Adaptive VOD Files **Settings** Event Log

Status Activate License Reload Licenses Load License Upgrade Restart

5. Click on **Network Settings** to display network configurations for each Ethernet port.
6. Click on **eth1** and click on **Edit** button. Enter the appropriate input **IP address**, **Subnet Mask**, and **Gateway**.
7. Click **OK**.
8. Click on **eth2** and click on **Edit** button. Enter the appropriate output **IP address**, **Subnet Mask**, and **Gateway**.
9. Click **OK**.
10. Enter **DNS1** and **DNS2** addresses, if necessary.
11. Click on **Apply** to save settings.
12. Make note of changes made to Network settings.

The image shows a network configuration interface with several sections:

- Network settings:** A main container with a 'Statistics' button.
- eth0:** A collapsed section.
- eth1:** An expanded section showing 'Speed: 1000Mb/s' and 'Duplex: Full'. It includes 'Routes' and 'Statistics' buttons, a 'Custom link setting' checkbox, and an 'Addresses' table.

IP	Mask	Gateway	DHCP	VLAN	
			Yes	No	[+]
					[edit] [x]
- eth2:** A collapsed section.
- eth3:** A collapsed section.
- DNS servers:** A section with a 'Use DHCP DNS settings' checkbox and input fields for 'DNS1:' and 'DNS2:'. An 'Apply' button is at the bottom.
- SNMP settings:** A collapsed section.
- NTP settings:** A collapsed section.
- File Transfer & VOD:** A collapsed section.
- Reports:** A collapsed section.
- Logging:** A collapsed section.

An 'Edit connection on eth1' dialog box is open on the right, containing the following fields:

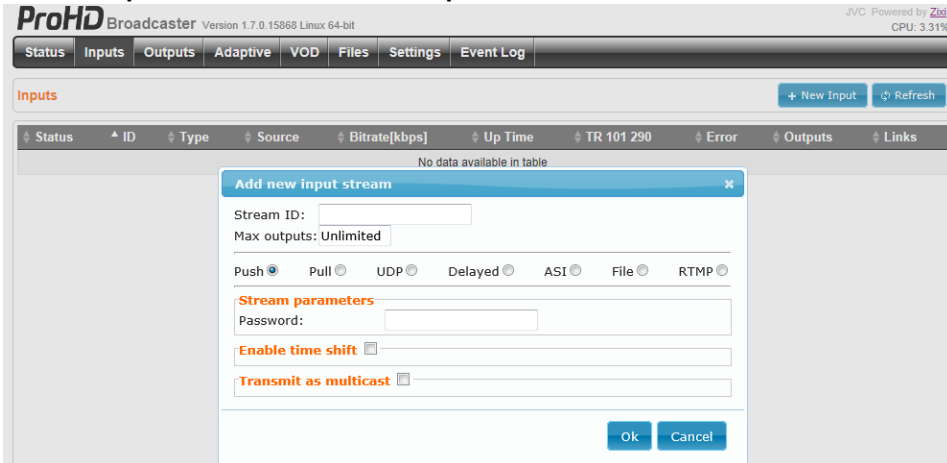
- DHCP:**
- IP:**
- Mask:**
- Gateway:**
- Default:**
- VLAN:**

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Chapter 3. Setting Inputs and Outputs

How to configure Zixi INPUT:

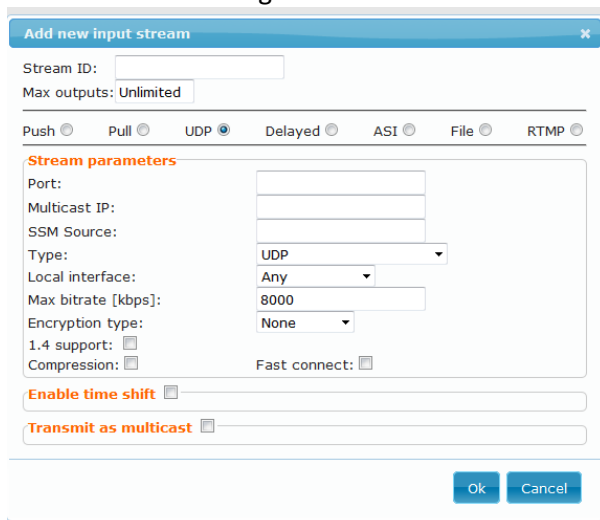
1. Click on **Inputs** tab. Click on **+ New Input**.



2. For Zixi stream, select **Push** for stream type.
3. **Stream ID** and **Password** are the same information entered from the JVC streaming camera under Zixi settings.
4. Click **Ok** to save settings.

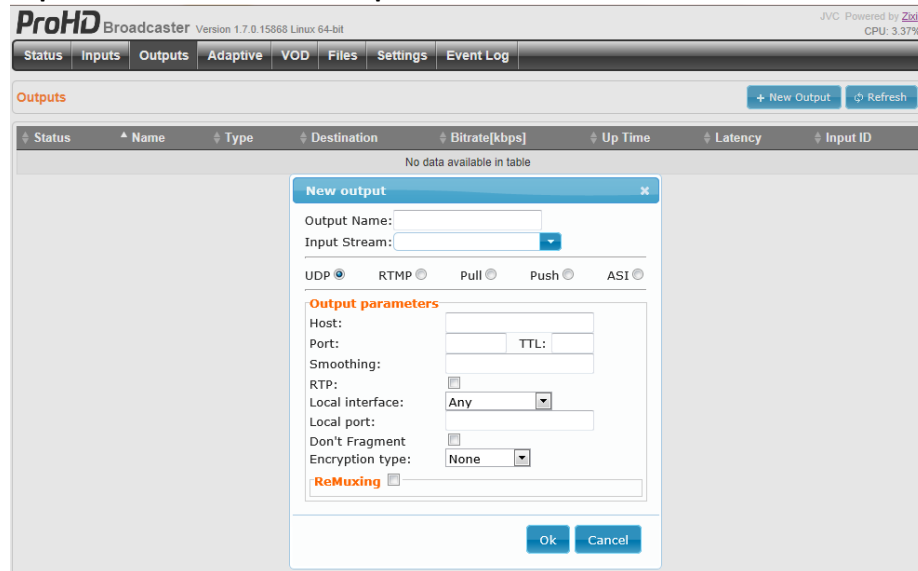
How to configure **UDP** Input:

1. Click on **Inputs** tab. Click on **+New Input**.
2. For UDP stream, select **UDP** for stream type.
3. Label the stream by giving it a **Stream ID**.
4. For Stream Parameters, **Port** is the same port number assigned from the JVC camera.
5. For type, select **UDP** from the pulldown menu.
6. For local interface, you may select either **Any** or **IP address** assigned to **eth1**.
7. Click **Ok** to save changes.



How to configure an Output:

1. Click on **Outputs** tab. Click on **+New Output** button.



2. Enter the desired **Output Name**.
3. Select the desired **Input Stream** from the pull down menu of streams created.
4. Select output stream type. If using a video decoder, **UDP** is the correct type.
5. In Output parameters, enter the decoder's IP address in the **Host** field and its corresponding **Port** number.
6. For smoothing, enter **0**.
7. For local interface, select either **Any** or **eth2 IP address**.
8. Click **Ok** to save settings.

Chapter 4. Tips for IT Connection

ProHD Broadcaster has unique features of Repeat Request and Dynamic Link Assessment. For these reasons, connecting ProHD Broadcaster to an existing network infrastructure requires bi-directional communication.

Connection to a network infrastructure can be achieved by either of the following:

1. DMZ (Demilitarized Zone)
2. Port Forwarding. The default ports that need to be forwarded are the following:

Port No.	Purpose
8080	Web Server
2088	Input Stream
2077	Output Stream
7777	HTTP Server
1935	RTMP Server

Contact your local IT personnel for the suitable network firewall connection and information on IP Address, Subnet, Gateway, DNS1 and DNS2 that need to be applied to the Network Settings.

For comprehensive BR-800 Setup Guide refer to JVC website: <http://pro.jvc.com>