BR-DE800 Quick Setup Guide - Connecting to the decoder

For successful BR-DE800 integration into streaming workflow it is required to setup:

• **Network Settings** - *IP Address*, *Subnet Mask* and *Gateway* (Router) for specific network environment.

• **IP Input** - *Streaming protocol* and *Port* # (e.g. UDP TS, Port 6504).

• **Output Resolution -** *480i/720p/1080i* or *1080p* (3G-SDI). All incoming streams will be up/down converted to selected output resolution. *Auto Detect* – output will match incoming stream format.

The BR-DE800 decoder is configured remotely over IP using **Telnet** or **SSH** protocols. Telnet protocol can be disabled and SSH requires authentication file located on CD-ROM.

> Decoder is shipped with **default settings**: 192.168.1.2 / 255.255.255.0 admin / jvc1234

For setup, connect LAN cable direct and set computer's IP address manually to 192.168.1.10 / 255.255.255.0

Launch: Windows – **Command Prompt** */* OSX – **Terminal**

Type: *Telnet 192.168.1.2* (or alt. decoder IP address)

BR-DE800 login: *admin*

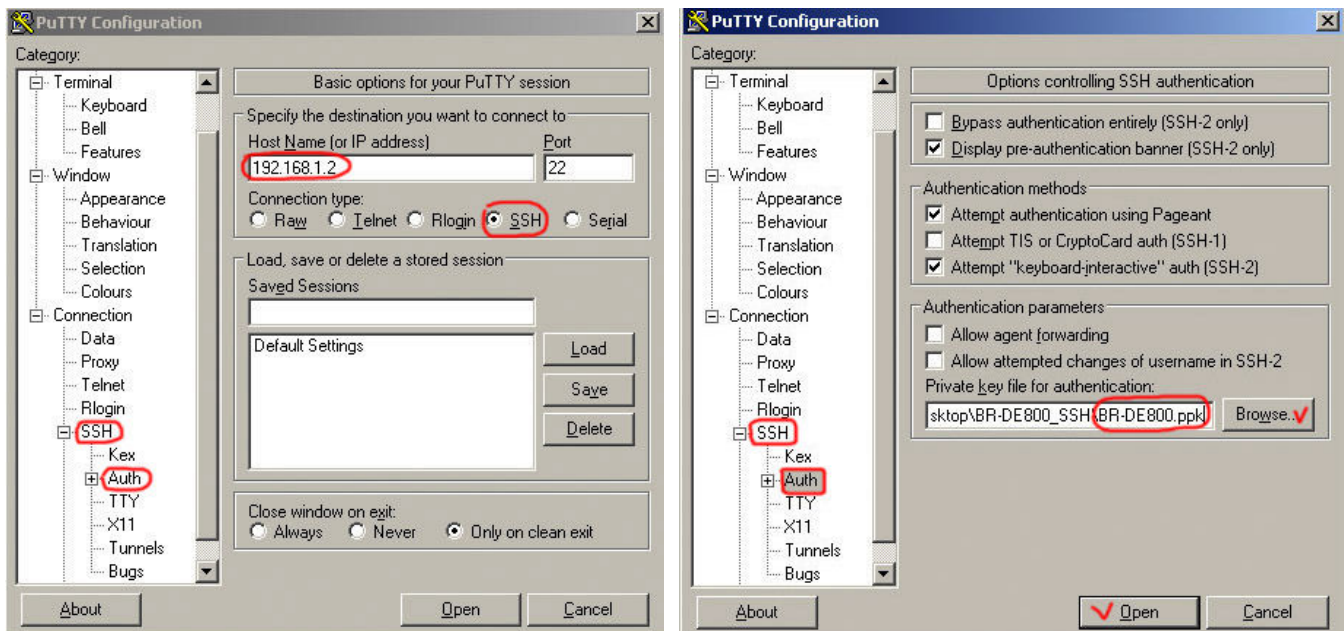Password: *admin*

Enter password: *jvc1234*

Note: Telnet requires entering *login* twice: *admin/admin/jvc1234*

> If decoder does not respond to *Telnet 192.168.1.2* command, there is a chance that *IP address* had been changed. In case if *IP address* is unknown and cannot be recovered , run the **BR-DE800 Reset Utility** to restore default IP settings (192.168.1.2). Utility is located on CD-ROM or JVC website, Windows only.

> In addition, network settings can be reset, saved or loaded via *XML file* placed on *USB memory stick*. Edit provided *DecoderNetworkSettings.xml* file with any text editor and save to USB memory stick*.* Plug USB in and power decoder OFF/ON. After reboot, network settings will match values in the XML file.

SSH protocol provides secure communication where Telnet is not supported, blocked or disabled. Windows utility *PuTTy* and authentication file *BR-DE800.ppk* are required for SSH connection (CD-ROM). Enter *IP address*, select **SSH** and click on **SSH – Auth**entication. Browse to load *BR-DE800.ppk* file. Prior to clicking *Open*, session can be saved for future "one-click" access.

When **SSH prompt** appears, enter login: admin   password: jvc1234

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Available Options:

1. Hostname
2. Network
3. Administrator password
4. Date and time
5. Output resolution
6. IP input
7. Decoding Mode
8. View system settings
9. Restore default settings
A. System upgrade
B. Decoder status
C. Restart unit
D. Zixi License
0. Quit
```

Important settings:

2 – Network settings to match specific network environment

5 – Output resolution: 1080p (3G-SDI), 1080i, 720p, 480i or Auto

6 – IP input – Select streaming protocol: UDP, Zixi etc.

B – Decoder status: "Decoding video" or "Error" (standby)

Direct connection to GY-HM200 / LS300 / 650 / 850 / 890 camcorders:

Press   **6**   to select streaming protocol

↓   **1**   for UDP TS

      1   for Standard Stream

Enter   decoder **IP Address** (same as for Telnet/SSH, e.g. *192.168.1.2*)

Enter   **Port #**   (e.g. *6504*)

```
Available Options:

1. UDP TS
2. RTP TS
3. Pro-MPEG
4. Zixi
5. RTSP VOD
6. Text URL
0. Return to previous menu
```

```
Enter Multicast IP (Multicast mode)
 Or Enter Decoder IP (Unicast mode)
 Or Enter 0 to return to previous menu [192.168.1.2] :
Enter the Port Number (1024-65535) [6504]:█
```

To take advantage of Zixi error correction built in JVC camcorders, press option **D** and enter Zixi license # available for purchase from JVC website.

Depending on camera mode, Zixi error correction compensates for up to 3% of packet loss in LOW latency mode and up to 30% in MED latency mode (2 sec/5 sec)
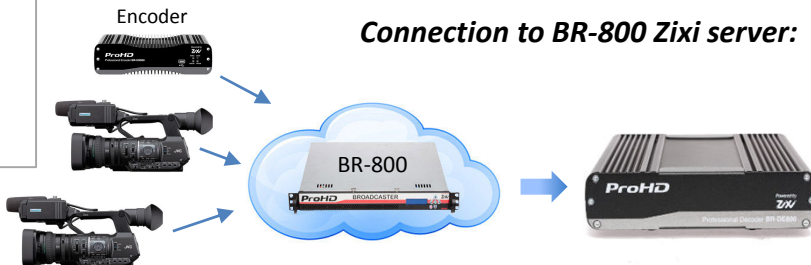

Protocol	Error Correction
UDP TS	no
Zixi *	up to 30%

* License required

Connection to BR-800 Zixi server:

GY-HM200
GY-LS300
GY-HM650
GY-HM850
GY-HM890
BR-EN800

Protocol	Error Correction
UDP TS	no
RTP TS	
Pro-Mpeg	3-4 %
Zixi *	up to 30%

* License is not required when streaming through the server

For UDP, RTP and Pro-Mpeg protocols use similar to direct connection setup.

To use **Zixi protocol** from the server:

Press   **6**   to select streaming protocol

      4   for Zixi

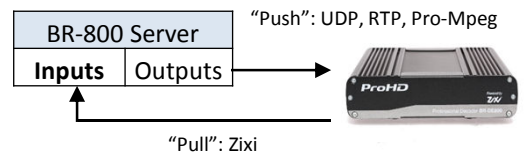   **Y**   to use Zixi Broadcaster Server

Enter   the BR-800 server **IP Address** (not URL), use *IP Address Lookup* on the web

↓   the Broadcaster server **Port #** - **2077** (Fixed)

      the Channel Name – server **Input Name** (not output)

      the Password – may leave blank

      Latency Value – **500** for minimum error correction, **6000** – max. (0.5 – 6 sec delay)

"Push": UDP, RTP, Pro-Mpeg

BR-800 Server

| Inputs | Outputs |

"Pull": Zixi

Note: When working with Zixi server, decoder is pulling Zixi stream from the server's input.

Enter associated server's **Input Name** for *Channel Name*, not the output name.