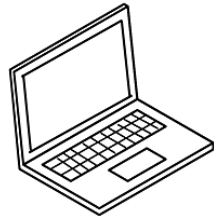


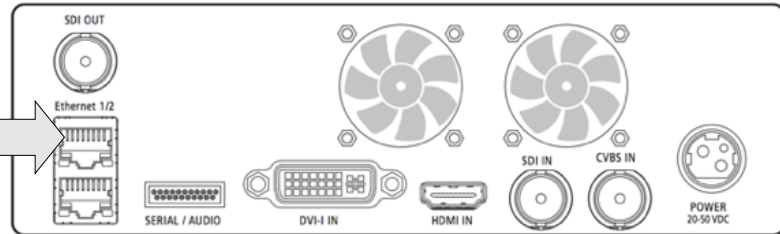
The BR-EN900 Quick Setup Guide



- Set PC IP address to 192.168.1.xxx
- Connect to the Ethernet 1 port
- Enter **192.168.1.3** in the browser
- Default password – *jvc1234*

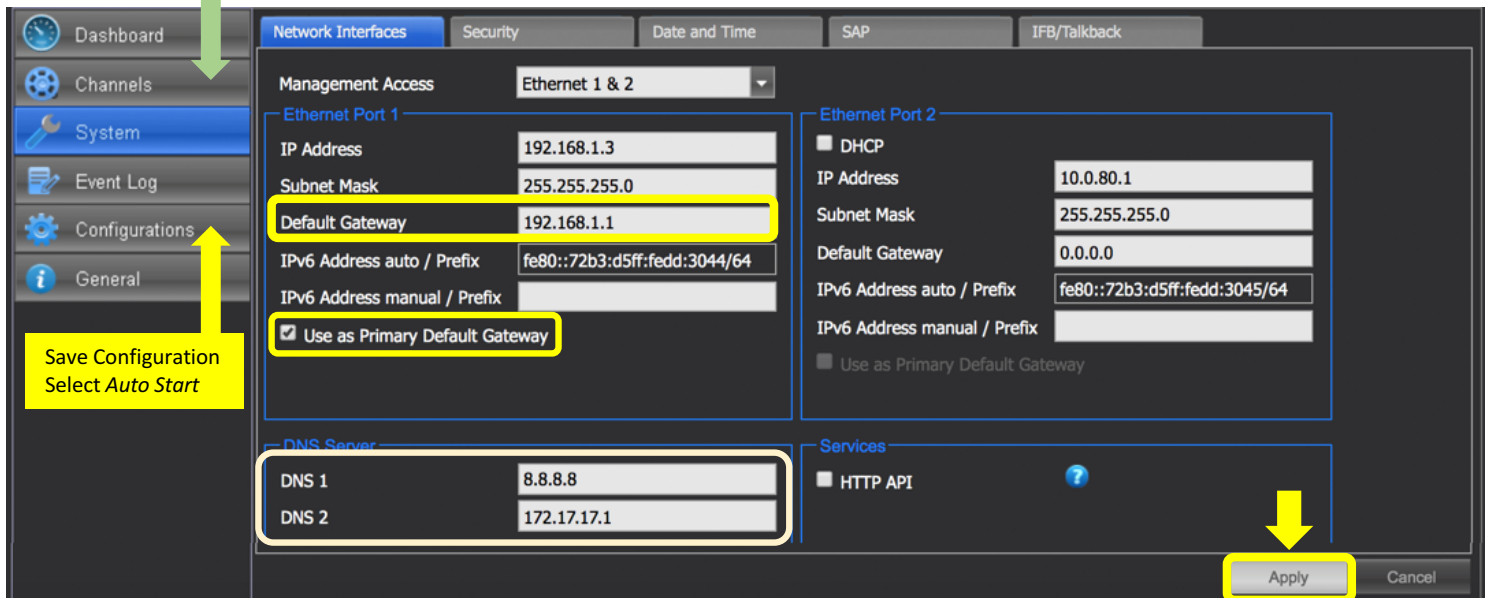


192.168.1.3



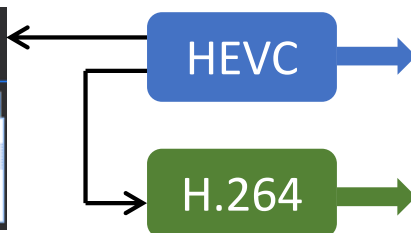
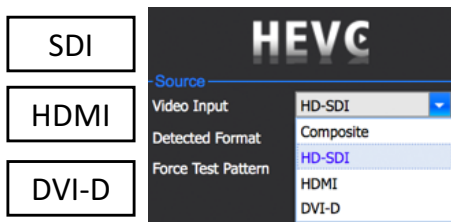
- Configure *IP address*, **Default Gateway** and *DNS servers*
- Confirm that **Use as Primary Default Gateway** is “checked” for the LAN port in use.
- Click *Apply* to save settings

Select Input
Configure channels



The BR-EN900 features two encoding channels – HEVC and H.264, each with a separate IP destination. **Input** must be selected in the HEVC channel settings, the H.264 channel will follow HEVC selection. Both channels encode video from the same input but can stream to different destinations / IP addresses.

Protocols:



- UDP TS
- RTP TS
- Pro-MPEG (RTP+SMPTE2022 FEC)
- Zixi

- RTP ES (RTSP pull)
- UDP TS
- RTP TS
- Pro-MPEG (RTP+SMPTE2022 FEC)
- Zixi
- RTMP (CDN)

Remember to click **Apply** after any change.
Save existing configuration and select *Auto Start*
to apply all settings after power OFF/ON

The BR-EN900 encoding (HEVC and H.264) Start/Stop is controlled in the *Actions* section of the GUI.

ProHD BR-EN900										Help About Logout
CH	Source	Total Bit-Rate	Resolution	Audio	Status	Actions	Channel Name	Target	FEC	
1-HEVC	HD-SDI	4.00	1920x1080i @ 30	✓	Playing		BBC-1	52.76.20.67:2088	Zixi	
2-H.264	HD-SDI	6.00	1920x1080i @ 30	✓	Stopped		BBC-2	24.122.11.23:2088	Zixi	

In order to make any changes to encoding parameters, each channel must be stopped and restarted after changes are applied. To automatically start encoding upon power ON, save *Configuration* and enable the *Auto Start*. *Configuration* captures the current status of the encoder with all associated settings, so channels must be running prior to saving the *Configuration*.

ProHD BR-EN900										Help About Logout
CH	Source	Total Bit-Rate	Resolution	Audio	Status	Actions	Channel Name	Target	FEC	
1-HEVC	HD-SDI	4.00	1920x1080i @ 30	✓	Playing		BBC-1	52.76.20.67:2088	Zixi	
2-H.264	HD-SDI	6.00	1920x1080i @ 30	✓	Playing		BBC-2	24.122.11.23:2088	Zixi	

Dashboard	My_configuration	05-Jul-19 07:53:57	✓
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Streaming to Zixi Server.

Zixi streaming protocol features the most resilient video transport over the Internet and is highly recommended for sending live video over WANs. *Channel Name* and *Password* should match the Zixi server settings.



Targets

Target

Enable ☒

Channel Name BBC-01

Streaming Protocol Zixi

Target Address 24.122.11.107

Target Port 2088

Multicast Interface Ethernet 1

TTL 128

UDP Packet Size 1316

SAP

Traffic Shaping

Error Correction

Zixi Settings

Password

Latency (msec) 1400

Enable ABR (Adaptive Bitrate)

Maximum Bit-Rate 5.2

Minimum Bit-Rate 2.8

Enable Failover

Failover Address

Failover Port 2088

Latency value affects the efficiency of error correction and should be selected based on the quality of the Internet connection.

FEC – Forward Error Correction
ARQ – Automatic Repeat Request

Preset Latency (ms)	Error Correction	Overhead
100 – 1,499	FEC + ARQ	up to 30%
1,500 – 8,000	ARQ only	5%

Targets

Target

Enable ☒

Channel Name BBC-01

TTL 128

UDP Packet Size 1128

SAP 564

Traffic Shaping 752

1128

1316

UDP Packet Size consideration:

Each data transfer protocol encapsulation increases the packet size. When packet size exceeds the MTU, it will be fragmented.

Some ISPs reject fragmented packets due to security concerns.

Rejected packets = lost packets, video may become corrupted.

When using Zixi or Pro-MPEG protocols, streaming via Bonded LTE (or other VPN) it is recommended to reduce the *UDP Packet Size* to 1128.

Full version of *User Manual* is located in the *Help* section or at pro.jvc.com

ProHD BR-EN900										Help About Logout
CH	Source	Total Bit-Rate	Resolution	Audio	Status	Actions	Channel Name	Target	FEC	