



# JVC's Connected Cam Series Features Simultaneous Recording and Sending of Zixi Streams to Any Studio for Live Shots

## ZIXI-INTEGRATED PROFESSIONAL CAMCORDERS

### AT A GLANCE

#### JVC SOLUTIONS WITH ZIXI INTEGRATION

- **Connected Cam Series** – Professional camcorders for broadcast and remote production (REMI) applications with built-in Zixi encoders and direct connectivity to any studio/newsroom across the globe
- **End-to-End IP Workflows** – JVC offers Zixi-enabled decoder, encoder and IP video servers for complete video-over-the-Internet workflow

#### KEY FEATURES:

- **Advanced camcorders** – 2/3" 3xCMOS B4 lens mount (GY-HC900) and built-in up to 40x zoom lenses (GY-HC500SPC/550)
- **Recording** – 10-bit 4:2:2 H.264 to SDXC cards
- **Streaming** – H.264/HEVC video using Zixi transport
- **Receiving** – Return Video over IP via Zixi protocol (Zixi pull)
- **RCU** – Full remote control (RCU) over the Internet

#### PRODUCTS:

- **Professional camcorders** – GY-HC900; GY-HC550; GY-HC500SPC; GY-HM660; GY-HM250L; KY-PZ100 (PTZ)
- **Decoder** – BR-DE900
- **Encoder** – BR-EN900
- **Zixi Broadcaster Servers** – BR-800; zRamp-2/4

### OVERCOMING LIMITED BANDWIDTH NETWORKS

Streaming live video from any location over LTE or even Wi-Fi/LAN presents many challenges including bandwidth limitation, packet (data) loss, latency and jitter which may result in the corrupted video. Remote productions, using a Remote Integration model (REMI), are often faced with these challenging network conditions. Any attempt to compensate for the bandwidth issues, would require sophisticated encoders that create excessive overhead and/or higher latency.

### THE ONLY PROFESSIONAL CAMERAS WITH THE BUILT-IN ZIXI FEEDER

JVC's **Connected Cam** series features a built-in Zixi Feeder (ZF), offering simultaneous recording and live video streaming directly from the camera without the need for outboard devices. The Connected Cam cameras can send broadcast-quality H.264/HEVC video via the Zixi protocol from any location directly through LAN, Wi-Fi, or 4G/5G LTE connections. The Zixi transport protocol offers resilience to the packet loss, jitter, and bandwidth fluctuations. Its continuous link quality assessment adds controlled amounts of FEC (Forward Error Correction), ARQ (Advanced Repeat request), and ABR (Adaptive Bitrate) to assure sending the broadcast-quality video via limited bandwidth networks without excessive overhead and latency.

JVC's flagship 2/3" Connected Cam **GY-HC900** is a unique and innovative broadcast camcorder that provides the highest image quality while offering an unparalleled level of connectivity, ideal for broadcast, studio and sports markets. Streamline ENG workflows with JVC's powerful communications engine that makes News-over-IP a reality that's both reliable and cost-effective. For a smaller, handheld option, JVC's **GY-HC550** provides the same level of connectivity in a compact device, ideal for broadcast newsgathering, which can deliver high quality, low latency error-free video right from the camera.



GY-HC900



GY-HC550

## CONNECTED CAM™



**KEY ZIXI BENEFITS**

- **Security** – Zixi provides best-in-class security enhanced with DTLS and AES standards-based protection
- **Reliability** – Contribute source streams with 99.999+% broadcast reliability; hitless failover provides redundant transmission options for higher reliability and disaster recovery
- **Low Latency** – With network adaptive Forward Error Correction and recovery, proven sub 1 second live linear latency
- **Interoperability** – Zixi is compatible with the largest ecosystem of encoding devices and contribution sources

**END-TO-END IP WORKFLOW PROTECTION WITH ZIXI**

With Zixi integrated into JVC’s Connected Cam Series and JVC’s IP video servers and decoders, users can leverage key elements of the Zixi Software-Defined Video Platform (SDVP) to transport broadcast-quality live video over challenging IP network conditions.

The resilient congestion and network-aware Zixi protocol adjusts to varying network conditions and employs patent pending, dynamic FEC techniques for error-free video transport over IP at minimal latency. It allows for protected multicast transport, provides bandwidth efficiency and enables encoder backpressure. The Zixi protocol removes jitter, recovers and re-orders packets, smooths video delivery enabling the secure streaming of broadcast-quality video over any distance, with up to 45% packet loss recovery.

The Zixi SDVP’s video solutions stack provides essential software tools and core media processing functions that allows for transcoding, auto-slating and time-shifting over multiple transmission paths and bitrate adaptation to ensure reliability over any IP network, any protocol, and any cloud provider, allowing for ease of interoperability with existing infrastructure. Zixi’s ability to conduct Hitless Failover allows for 99.999% uptime for the highest reliability. Zixi’s ability to bond across multiple connections (ex 5G, 4G LTE, Internet) increases available bandwidth and provides efficient error correction to compensate for data loss recovering up to 100% in difficult network conditions.

With reliance on Zixi for streaming contribution, JVC Connected Cam users can leverage ultra-low latency delivery of high performance 1080 60p/50p live streaming video over managed or unmanaged IP networks resulting in advanced QoS for broadcast and flawless QoE for the end user.

**Leverage Zixi for Advanced QoS/ABR for Live Streaming**

**CONNECTED CAM™**



Zixi Feeder

- Auto FTP
- Metadata

**ZIXI**  
**ANY IP NETWORK**  
 WiFi Hotspot  
 Cellular



JVC BR-DE900 Decoder

**You Tube** **facebook**  
**Social Media**



Zixi Enabled Device

**ABOUT JVCKENWOOD CORPORATION**

JVCKENWOOD Corporation was formed from the merger of Victor Company of Japan, Ltd (JVC) and Kenwood Corporation in 2008. JVC was founded in 1927 in Japan and has been manufacturing consumer and professional electronics since then, selling worldwide.  
[www.pro.jvc.com](http://www.pro.jvc.com)  
[eshane@us.jvckenwood.com](mailto:eshane@us.jvckenwood.com)

**ABOUT ZIXI**

Zixi provides the cloud based and on-premises Software-Defined Video Platform (SDVP®) that enables reliable broadcast-quality video delivery over any IP network, any protocol, any cloud provider and any edge device. The company offers technologies for broadcasters, enterprises, over-the-top video providers, sports leagues, service providers, cable operators and Telcos around the world, giving them the lowest TCO in the industry. Many of Zixi’s clients are delivering and managing thousands of streams, and there is no other alternative in the market that can provide 99.999%+ reliability at scale. Zixi simplifies building and managing congestion-aware live video routes on any network, with support for 18-protocols across any operating environment, with products that are purpose built to provide market leading performance, universal interoperability and an operational control plane that simplifies management and orchestration at scale. With 15+ years of innovation and expertise, the Zixi Enabled Network has grown to over 1000+ media customers and 400+ OEM and service providers that deliver 20,000+ channels daily, with 110,000+ deployed instances in over 120 countries, gathering over 9 billion data points a day while delivering over 100,000 live sporting events a year. This powerful ecosystem of the largest media organizations in the world exchanging live video allows for the creation and acceleration of new content acquisition, business models, and opportunities to reduce cost and generate revenue. [www.zixi.com](http://www.zixi.com) | [sales@zixi.com](mailto:sales@zixi.com)