JVC

Be Empowered. Be Connected.
A JVC White Paper

CONNECTED CAM

Stream

Capture the story

From production

To production
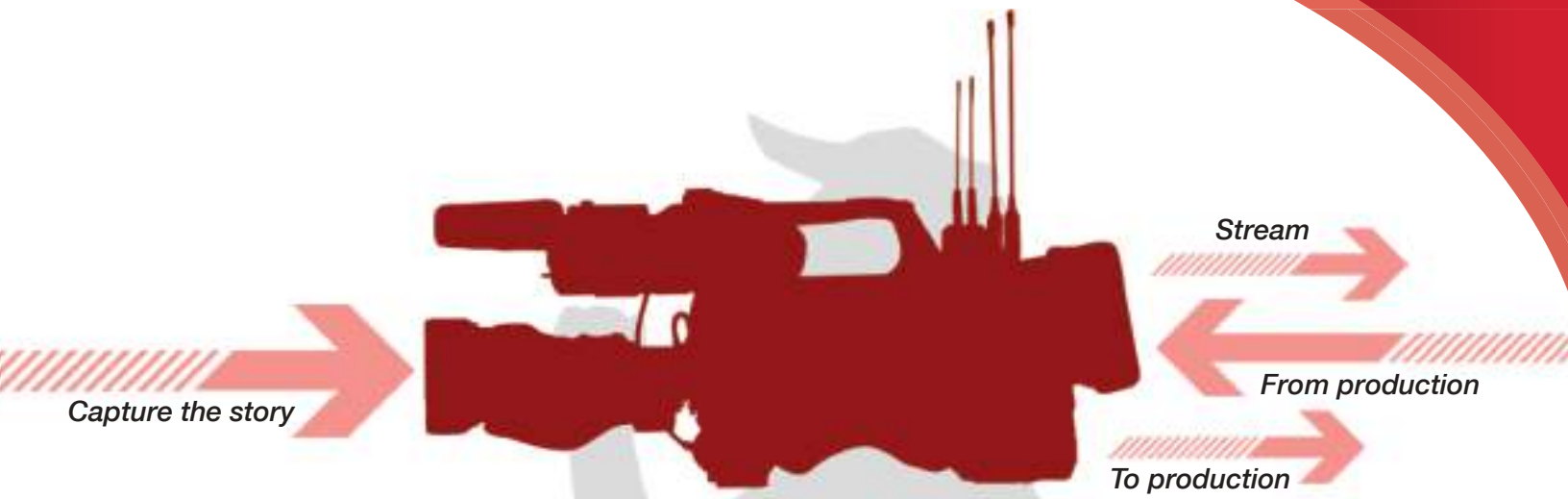
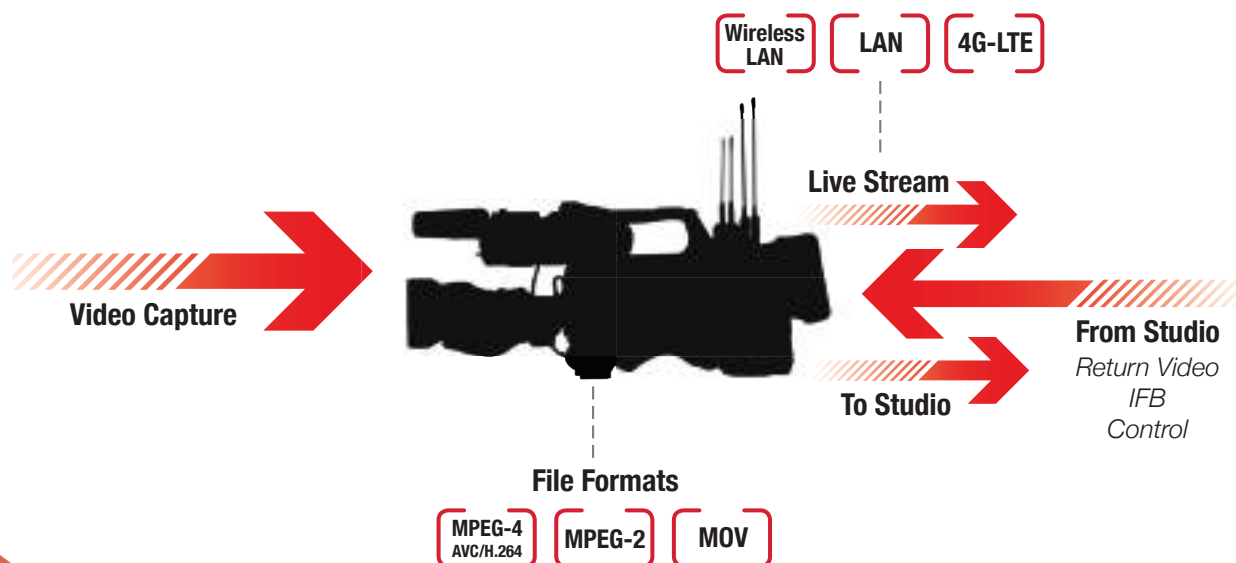# JVC Professional Video CONNECTED Series

"Be Empowered. Be Connected."

When someone is connected, they are empowered. In broadcast, connection to the camera operator comes in many forms, including communication from the camcorder and the production team. This communication empowers the camera operator to capture optimal images and tell the best story possible.

The **CONNECTED** Story

Connection is key and just as important to the camcorder. Images need to be processed with maximum efficiency, robustness, and security. Today's professional and broadcast productions also require data to fulfill the wants and needs of the viewing audience, as well as production and distribution systems in various applications.

JVC CONNECTED Series of professional video products provide feedback and control along the entire workflow chain, which empowers the camera operator, camcorder, and other equipment and personnel to perform at their best. The system can be as simple as a camcorder streaming to Facebook Live through a CDN, as sophisticated as transmitting breaking news live through a bonded, encoded video stream with files progressively being transmitted via FTP to the control center. It can also drive the needs of specific vertical markets, such as recording a nationally televised professional sport to share game footage with the opposing team's coaching staff for their game analysis system. All of these applications and more can be fulfilled with JVC Professional Video's CONNECTED Series system solutions.

Wireless LAN | LAN | 4G-LTE

Live Stream

Video Capture

From Studio
Return Video
IFB
Control

To Studio

File Formats
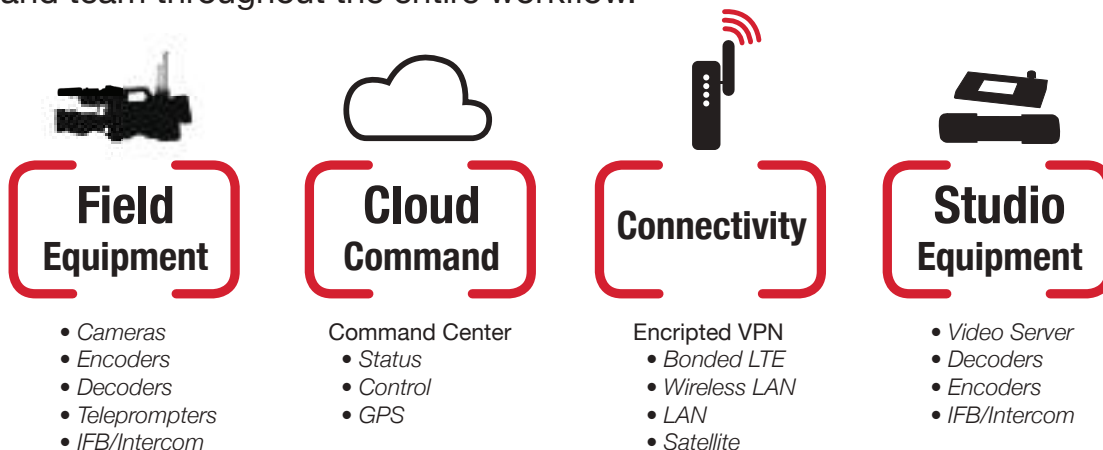
MPEG-4 AVC/H.264 | MPEG-2 | MOV

The CONNECTED Series system solution is made possible by partnering with best-in-class, third-party companies that understand the power borne from the synergy of these technologies. By establishing key partnerships over years and incorporating those technologies with JVC's proven imaging and encoding expertise, the CONNECTED Series system empowers its users of all levels to create, control, and distribute content with the best imagery at the highest possible efficiency.

IT has enabled professional production to become a global process. JVC continuously strives to incorporate the latest technological advancements toward the ultimate end goal of empowering the entire production chain to acquire from the world and deliver to the world. JVC's new flagship, the GY-HC900 CONNECTED CAM is the first full-size camcorder that embodies the attributes of the CONNECTED Series.
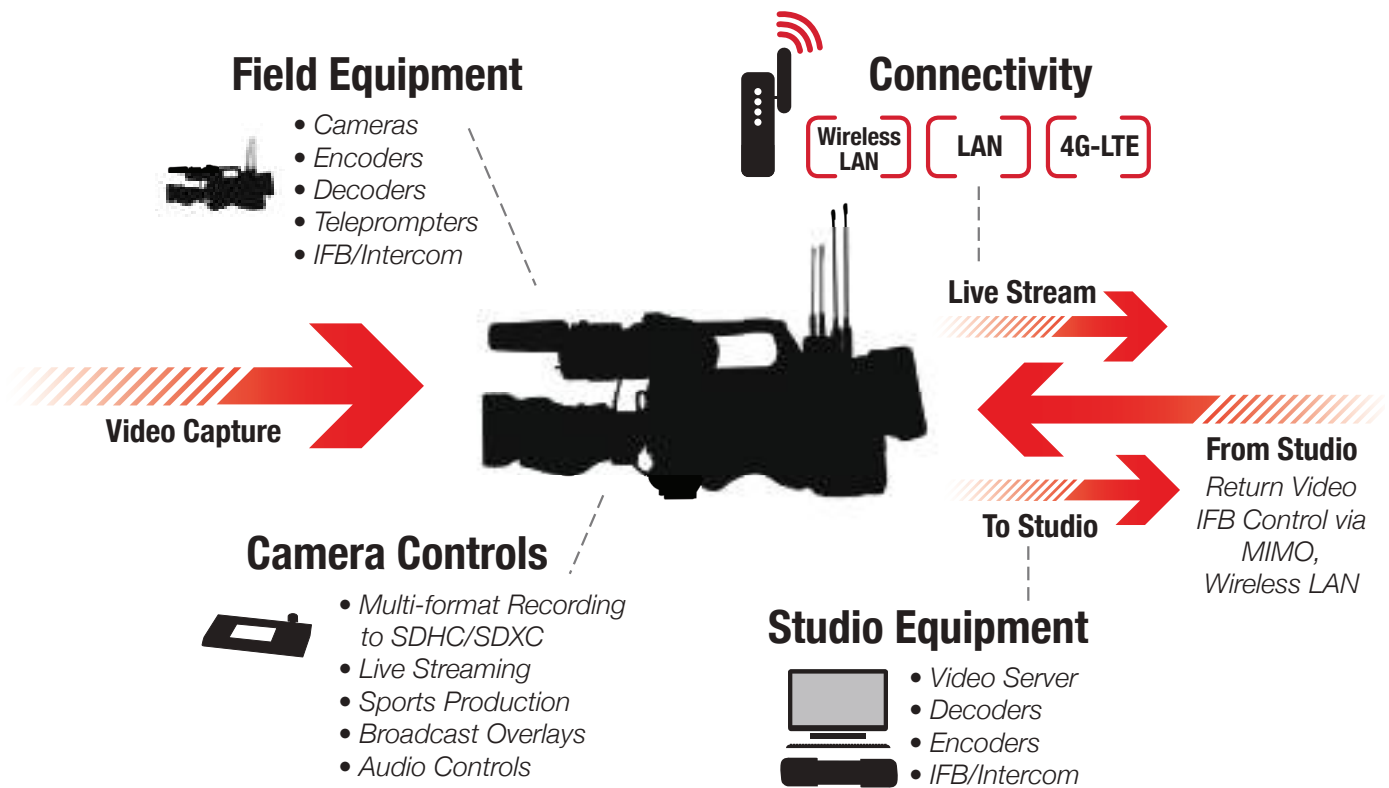

CONNECTED Series:

Products designed to broadcast specifications with full video, audio, data, and control transport capability over IP that enable both the camera operator and camcorder to be actively connected to the production system and team throughout the entire workflow.

Field Equipment	Cloud Command	Connectivity	Studio Equipment
• *Cameras*	Command Center	Encripted VPN	• *Video Server*
• *Encoders*	• *Status*	• *Bonded LTE*	• *Decoders*
• *Decoders*	• *Control*	• *Wireless LAN*	• *Encoders*
• *Teleprompters*	• *GPS*	• *LAN*	• *IFB/Intercom*
• *IFB/Intercom*		• *Satellite*	

The CONNECTED Series System

JVC's CONNECTED Series system solution bridges broadcast AV to the IT world by integrating video, audio, control, and ID data. It uses JVC's latest imaging and encoding technologies, in collaboration with industry-leading global partners, to provide a seamless AV/IT production, management, and delivery workflow that can be scaled from a targeted, secured recipient to a global audience.

Field Equipment
- *Cameras*
- *Encoders*
- *Decoders*
- *Teleprompters*
- *IFB/Intercom*

Connectivity
Wireless LAN | LAN | 4G-LTE

Video Capture

Live Stream

From Studio
Return Video IFB Control via MIMO, Wireless LAN

To Studio

Camera Controls
- *Multi-format Recording to SDHC/SDXC*
- *Live Streaming*
- *Sports Production*
- *Broadcast Overlays*
- *Audio Controls*

Studio Equipment
- *Video Server*
- *Decoders*
- *Encoders*
- *IFB/Intercom*

The system features the real-time integration of ground-breaking technologies, such as bidirectional camera operator communication (return video via IP, IFB via MIMO Wireless LAN) with a central control center (GPS, status, camera control), online post-production systems (native file progressive FTP), and live IP distribution networks (live VoIP and data transport).

The **CONNECTED** Series Concept

Empowerment of the Camera Operator:

- Return Video
- IFB
- Streaming and Tally Indicators

Empowerment of Image Processing:

- Native File (.MOV, MXF, Exchange)
- HDR
- J-Log
- VBR

Empowerment of Workflow Management:

- Bonded LTE
- Encryption
- SpeedFusion™
- MIMO

- GPS
- IPS Control for Cams
- Real Time Updates
- Wireless LAN

How does the CONNECTED Series do it all?

• JVC camcorders enable direct connection to an existing AV or IP infrastructure for content delivery. Features include native as well as ubiquitous recording files, transport streams, and wired or wireless connectivity.

• Commercial-grade communication and transport components include carrier grade antennae and modems, professional AV and IT connectors, and platforms optimized for signal processing.

• Professionally designed SW and FW delivers robust yet efficient signal processing for optimized transport, VPN and encryption capability for security, and variable bit rates for fluid operation with the latest transport infrastructure.

• Collaboration with best-in-class, third-party partners ensures optimal interoperability and ideal workflow performance for targeted applications.

• Scalable systems meet the requirements for both operation budgets and workloads.

CONNECTED CAM