NEWS RELEASE

JVC Professional Video Division
JVCKENWOOD USA Corporation
1700 Valley Road, Wayne, NJ 07470

Press contact: Mark Pescatore
mark@pipecomm.com | (561) 531-3106

JVC INTRODUCES PRIVATE MESH VIDEO NETWORK AT NAB 2015

WAYNE, NJ (April 13, 2015) – JVC Professional Video, a division of JVCKENWOOD USA Corporation, will unveil the JVC Private MESH Video Network at the 2015 NAB Show (Booth C4314), which runs April 13-16 in Las Vegas, Nev. An ideal solution for wireless, multi-camera coverage of sports, parades, and other location shoots, the JVC IP solution uses the Silvus Bi-Directional Radio System to transmit very high quality video from remote locations with extremely high streaming reliability.

JVC offers several ProHD and 4KCAM camcorders that deliver reliable and cost effective live video-over-IP streaming for broadcasters. With built-in Zixi Advanced Streaming Technology (AST) featuring forward error correction and new adaptive bit rate technology, JVC camcorders maximize bandwidth to deliver high-quality live HD video with lower dropout and connection loss than standard UDP transmission. Because current IP streaming solutions typically depend on broadband networks or public Wi-Fi, network congestion may intrude on a live broadcast stream and limit applicability in certain venues.

JVC's Private MESH Video Network solves the congestion problem and provides bandwidth up to 85 Mbps, which is significantly more than traditional cellular and even bonded cellular transmission systems. When partnered with the Silvus Bi-Directional Radio System, the JVC system offers even better reliability. Plus, the private network delivers much larger transmission distances than Wi-Fi systems, provides a secure direct encoded video stream, and features two-way communication that allows camera setup and adjustment from remote locations.

“This is the future of ‘first mile’ contribution for live multi-camera coverage of remote events. Broadcasters are going to love the reliability and simplicity of our private wireless network system, because it resolves any issues of access or bandwidth in the field,” Dave Walton, assistant vice president, marketing communications. “Sports producers have already expressed interest in this technology, and it has huge potential for government and security applications as well.”

The independent, isolated network is built around the use of mobile MESH nodes that can communicate while moving without any kind of fixed infrastructure. Although the JVC network was designed as a portable MANET (Mobile Ad-Hoc Network) system, nodes can be permanently installed in locations such as sports arenas or government buildings where broadcasters frequently return for live reports.

Each node in the JVC system is a Silvus Transceiver Radio that serves as both transmitter and receiver, creating a flexible, self-managing, and self-healing network.

Radio choices include a camera node that directly attaches to a JVC camcorder and receive an encoded stream directly from the camera (a JVC exclusive), mobile relay node designed for use in vehicles, fixed relay node for fixed locations within the wireless service area, and destination access point node that serves primarily as the receiver for live transmission or file transfer.

The network is simple to set up and requires very little knowledge to operate. Best routing decisions are made automatically, and the network can be administered from any radio. The quantity of nodes required to cover an event is subject to the size of the area and topography of the region.

The JVC system uses MIMO (Multi In Multi Out) technology that supports four transmit channels and four receive channels. Traditional systems use a two-dimensional signaling space (time and frequency), but MIMO systems add a third dimension – space – to allow transmission of multiple signals over multiple signal paths at the same time and frequency. All streams operate at the same frequency, but each antenna transmits a unique data stream that is recovered at the receiver via sophisticated signal processing.

JVC has published a white paper detailing the technology behind the JVC Private MESH Video Network. It can be accessed here.

ABOUT JVC PROFESSIONAL VIDEO

Headquartered in Wayne, New Jersey, JVC Professional Video is a division of JVCKENWOOD USA Corporation, a wholly-owned subsidiary of JVC KENWOOD Corporation. The company is a leading manufacturer and distributor of broadcast and professional video and audio equipment, D-ILA front projection systems, and Super LoLux HD video security products. For further product information, visit JVC's Web site at pro.jvc.com or call (800) 582-5825.

# # #