



# supplier of video tech



Press Release.

May, 2022 - **Broadcast Solutions GmbH appoints Netchange as his partner for its new meshLINK system in the Benelux.**

meshLINK is developed by System Integrator and Innovator Broadcast Solutions. It is a unique and revolutionary system in which RF, encoding, IP and mesh technology are combined to transfer video of cameras wirelessly in broadcast quality and with ultra-low latency.



With the introduction of the innovative meshLINK, Broadcast Solutions is taking very high-quality wireless video transmission to the next level. This is achieved by applying state-of-the-art video encoding (4:2:2 10-bit) and full-duplex IP with mesh network technology.

According to Broadcast Solutions, the meshLINK system with its unique features meets the highest demands and wishes in the broadcast world. The system can be deployed to always be able to facilitate completely reliably live broadcast, live productions, news gathering and event reporting. meshLINK combines the latest advancements in RF technology and ultra-low latency UHD HEVC encoding.

MeshLINK is a true-duplex IP-based wireless system that enables a wide range of functions such as RCP and telemetry integration. It can also integrate intercom, video return, teleprompter or autocue and other functions.



The meshLINK hardware mounted on a professional camera.

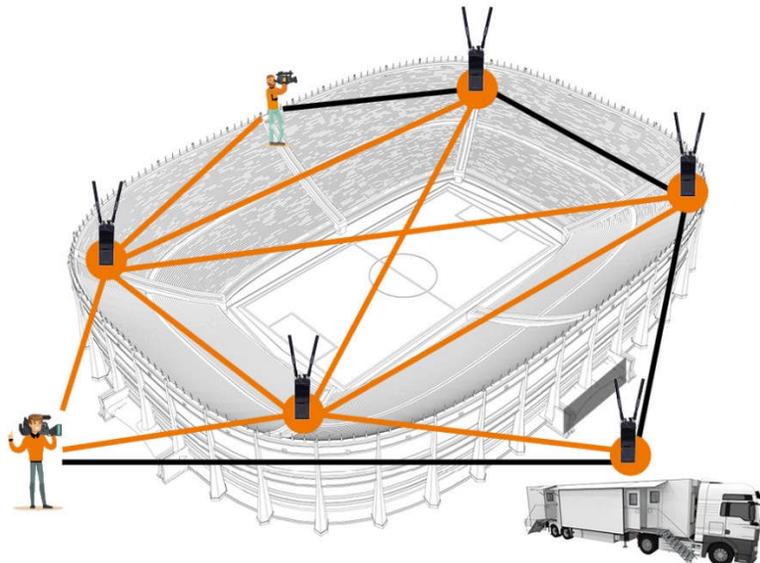


Left: RF/radio unit (node).  
Right: encoder.

The meshLINK hardware consists of an encoder and a RF/radio unit. The radio can act as a transmitter, receiver and repeater at the same time. In its basic configuration, meshLINK can be used as a Tx/Rx wireless point-to-point solution enabling bi-directional IP traffic and connection monitoring. This configuration works with a radio unit and an encoder on the transmitter side and a radio unit and a Vitec decoder on the receiver side.

When more radios (nodes) are added, the system becomes a mesh network that always operates on one frequency. When used in a mesh network, a radio acts as a transmitter, receiver and repeater at the same time.

By placing fixed radio units (nodes) 'on-the-fly', ad-hoc video transmission from almost any position is possible.



A meshLINK application at a stadium. Also think of a square, district, track, hall, etc.

The network is scalable, self-forming and self-resolving. Signal routing is selected automatically and dynamically (self-forming) to ensure optimal performance without compromising the signal stability.

To ensure the best possible result, a ground-breaking feature is offered as an option: real-time adaptive video encoding. This automatically adjusts the video bandwidth (bit rate) according to the Mesh network performance, ensuring the best video quality under the given circumstances.

Data can be entered and retrieved at any node in the network. In the case that a Tx/Rx line is blocked, all other nodes in the Mesh network can take over the signal delivery by acting as a relay (self-resolving).

The main features:

- Super-low latency (45ms in HD and 75ms in 4K)
- A complete Mesh network only takes up one frequency
- A Mesh RF/radio unit is a transmitter, receiver and repeater at the same time
- H.265, 4K, UHD (12G or 2SI)
- 1 to 4 HD encoding channels
- Modular, flexible and easy installation
- Can use existing IP infrastructure for an even better Mesh network
- Robust, waterproof and passively cooled solid aluminium housings

We at Netchange, distributor of Pro-AV and Broadcast solutions in the Benelux, understand that meshLINK raises many questions. For additional information and technical specifications visit our website or contact Netchange by e-mail or phone and ask for Wim van Dijk.

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