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Auracast™: The availability of public broadcast audio infrastructures is spreading with enormous momentum.

Auracast particularly comes into its own where people gather in public facilities such as sporting, cultural, religious or educational venues to enjoy events together and experience good sound even in sometimes turbulent surroundings. More and more operators of a wide variety of venues are currently deciding to integrate Auracast into their sound reinforcement technology.

With the dynamic development of the availability of public broadcast audio infrastructures, manufacturers of personal hearing systems are expanding their range with Auracast models. At the same time, awareness of the benefits of this new technology is spreading within the population.

The implementation of public broadcast audio infrastructures is increasing

For almost 20 years, Humantechnik GmbH has been offering transmission systems for barrier-free hearing in public institutions under its Audioropa brand. In addition to the established methods - inductive hearing systems as well as radio and infrared transmission - the latest technologies such as WiFi streaming (early 2024) and, above all, Auracast (early 2025) are expanding the portfolio. With the availability of the latter, Humantechnik is one of the pilot providers.

“When we presented our Auracast system programme at the beginning of this year at Integrated Systems Europe (ISE) in Barcelona, the world’s leading trade fair for pro AV and system integration, we aroused considerable interest,” says Stefan Lenke, Head of the Humantechnik brand Audioropa: “As the year progressed, we were able to present our Auracast system solution for various supply scenarios at other relevant events with great success. This resulted in numerous projects in which we are now firmly involved.”

Auracast system solutions for all broadcast audio scenarios

Auracast system solutions have a scalable structure. The modularity allows the realisation of broadcast audio configurations for the supply of rooms and halls of all sizes. Configurations for mobile applications, such as visitor tours, are also available.

On the transmitter side, the programme includes scalable stationary Auracast streamers with a long range and a latency of less than 40 ms. Handy pocket transmitters and switchable transceivers are available for mobile applications.

For listeners without their own Auracast receiver components, the programme includes compact pocket receivers for hire, to which they can connect their standard headphones in order to receive Auracast data streams.

Protected Auracast streams

An NFC-capable variant of the receivers described allows connection to protected Auracast streams in areas that require discretion, for example in courtrooms or meeting rooms. Configurations that generate corresponding passcodes are available for these applications. These ensure that only authorised persons can access the audio support in the relevant locations.

Smart charging infrastructure

Developed for professional applications of all sizes, the audio technology brand Audioropa offers a pioneering charging and management system for the pocket receivers and transmitters of the Auracast system. The concept allows for seamless integration and is suitable for both desktop placements and rack installations.

The hardware was developed for tour guiding applications in complex environments and busy locations, among other things, and offers reliable control. The Manager software can be used to centrally manage the charging status of all connected components. The powerful tool offers complete control over all functions such as audio streams, language selection, group labelling, content and profile management as well as remote firmware updates.

Perspectives

The Audioropa portfolio of intelligent solutions for broadcast audio infrastructures in public spaces is subject to continuous further development in terms of the range of components and functions. Compatibility with existing system configurations is guaranteed in the long term.

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(Images to choose from:)

Humantechnik\_public\_auracast\_infrastructures\_hardware.jpg (2500 x 1500 Px)

Humantechnik-Audioropa: scalable Auracast system solutions and components for all broadcast audio scenarios in public spaces, also with authorisation system for protected Auracast streams

Humantechnik\_public\_auracast\_infrastructures\_illustrativ.jpg (2880 x 1016 Px)

Auracast shows its strengths above all in public facilities and event venues where groups of people gather to enjoy shared experiences with good hearing and understanding.

Humantechnik\_public\_auracast\_infrastructures\_protected\_audio\_streams.jpg (2545 x 1699 Px)

Areas requiring discretion: Intelligent authorisation system for receiving password-protected Auracast streams

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