

televic / biamp.

Hybrid Hearing Core Audio Solution





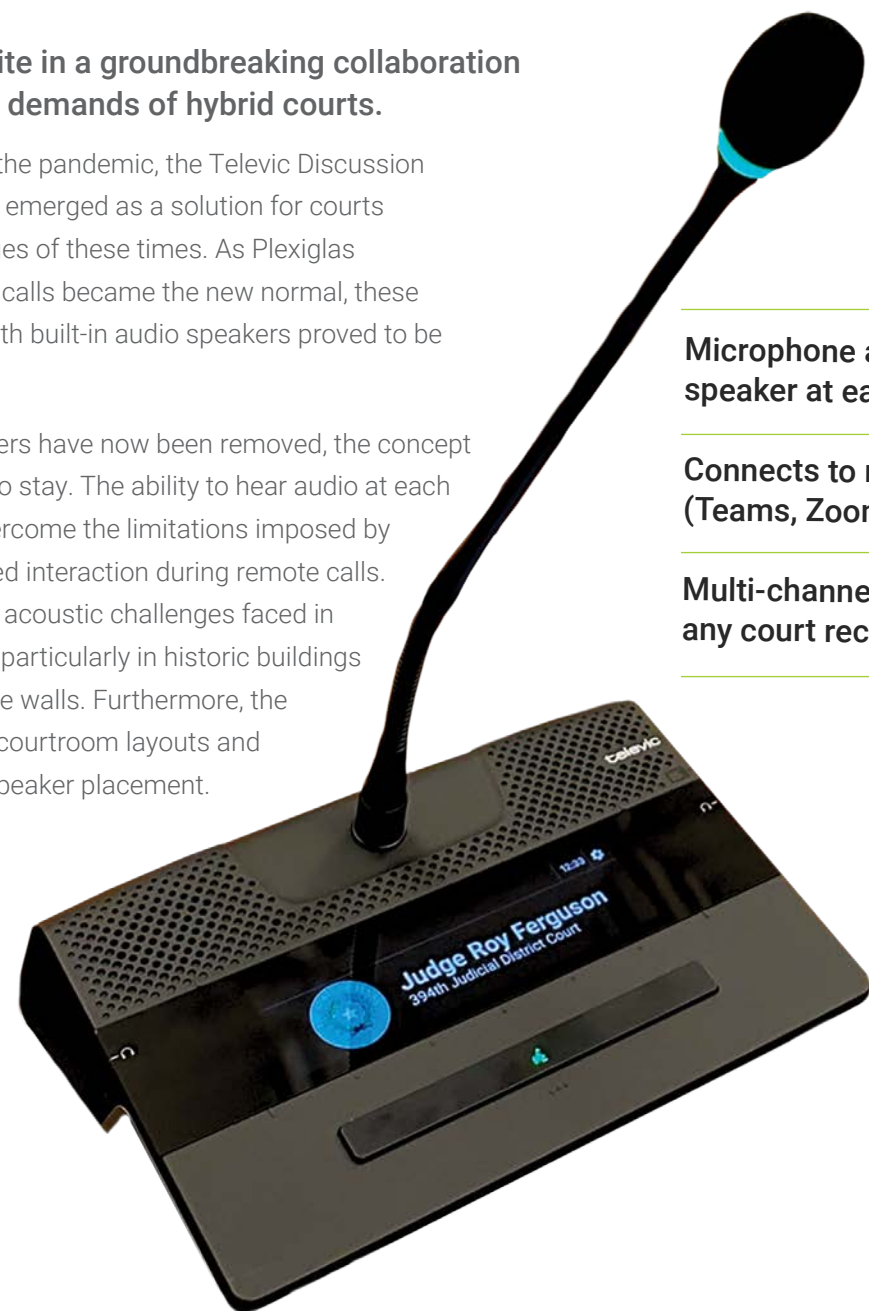
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Hybrid Hearing Core Audio Solution

Televic and Biamp unite in a groundbreaking collaboration to address the unique demands of hybrid courts.

In a world transformed by the pandemic, the Televic Discussion Microphone Systems have emerged as a solution for courts grappling with the challenges of these times. As Plexiglas barriers and remote Zoom calls became the new normal, these innovative microphones with built-in audio speakers proved to be indispensable.

While many Plexiglas barriers have now been removed, the concept of hybrid hearings is here to stay. The ability to hear audio at each station not only helped overcome the limitations imposed by Plexiglas, but also enhanced interaction during remote calls. Moreover, it addressed the acoustic challenges faced in many court environments, particularly in historic buildings with tall ceilings and marble walls. Furthermore, the system overcame various courtroom layouts and the constraints of ceiling speaker placement.



Microphone and built-in audio speaker at each station

Connects to remote platforms (Teams, Zoom, etc.)

Multi-channel audio routing to any court recording platform

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Televic/Biamp Hybrid Hearing Core Audio Solution strategically positions five Televic stations for the judge, witness, podium, state, and defense tables, guaranteeing direct and uninterrupted audio for all individuals present. The system offers expandability, allowing for the additional stations to accommodate multiple attorneys, the clerk, the jury rail, and a sidebar option at the bench.

With its sleek and unobtrusive design, the Televic stations are easily connected using a standard shielded Cat 5 cable or a higher-quality alternative. This flexible connectivity enables direct integration with the Televic AE-R engine, as well as interconnection between stations, depending on the room layout or cable accessibility.

By incorporating remote callers via platforms like Zoom or any other remote conferencing platforms, the Televic stations extend the reach of the remote audio to every seat in the courtroom, fostering a conducive "conversation" environment.

The Televic microphone and the base of the station are equipped with LED indicators to show the status of the microphone. This ensures that the Judge and the clerk can easily identify if the audio will be routed to the court recorder.



Microphone/LED Modes

Assignable microphone and LED modes are available any time and can be changed per the court preference.

Microphone Modes

- Fixed on
- Toggle on/off
- Hold to mute
- Override control

LED Modes

- Red-on, no LED-off
- Green-on, no LED-off
- Red-on, Green-off
- Green-on, Red-off

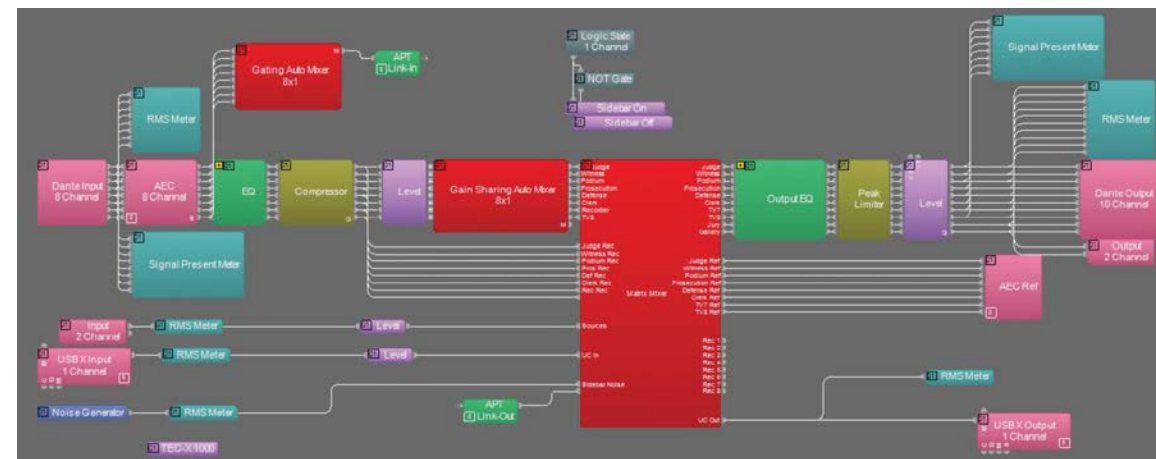


The Biamp TesiraFORTÉ X 800 DSP system seamlessly integrates with the Televic Flex wired system, providing essential audio processing and routing capabilities. The system includes audio echo cancellation (AEC), equalization (EQ), and other audio processing features required, supporting up to eight Televic stations.

The Biamp Apprimo TEC-X 1000 control panel enables simple adjustment of overall audio volume for both Televic audio and remote participants. The solution also includes a sidebar feature that allows private bench conferences to be captured on the official record without being heard in the courtroom or by remote participants.

Audio Routing

The audio from the Televic/Biamp Solution provides the necessary audio routing via USB to the computer for the remote participants. Regardless of the remote platform (Teams, Zoom, etc.) the remote audio will be sent to each Televic station in the room and all Televic microphones will be sent to the remote participants. To maintain an official court record, it is essential to isolate audio from each station within the courtroom in addition to Teams/Zoom calls. Court recording software such as FTR, Liberty, SoniClear, and others are employed to capture, control, manage, and store court proceedings. The Televic/Biamp Solution is configured to route each microphone to independent recording channels, capturing both in-room and remote participants for the official record. This system is compatible with any court software platform or hardware-based recorder, requiring only simple configuration from the recording manufacturer to route the audio to their system.



Future Expansion

The Televic/Biamp Hybrid Hearing Core Audio Solution” is a comprehensive audio solution that aims to cater to courts of any size or budget, facilitating effective communication among all participants while directing the audio to the court recording system. The package encompasses all necessary components and is accompanied by detailed instructions, enabling court technical staff to connect the system with minimal assistance from a local integrator.

Nevertheless, the scalability of this system is a notable advantage. As needs and demands change, the system can easily expand. This may include the incorporation of handheld and lavalier microphones, sound reinforcement in jury and public areas, as well as compatibility with video tracking systems.

Expand the functionality of your Televic system with seamless audio added for assisted listening and interpretation, all from a single base station. With two headphone jacks available, you can access and select separate audio channels directly from the unit’s display. This process can also accommodate handheld receivers, providing a comprehensive solution for all your audio needs.



Assisted listening or interpretation audio headphone jacks.

Expanded Integration Options

Handheld wireless microphone for voir dire

Lavalier (lapel) wireless microphones for attorneys

Wired boundary microphones for the “well” area

External audio systems integration

Assisted listening audio system integration

Interpretation audio (in-room/remote) integration

Camera tracking integration





Hybrid Hearing Initiative Case Study

The effectiveness of the Televic/Biamp Hybrid Hearing Core Audio Solution has been demonstrated through its successful implementation in the 394th Judicial District of Texas, as part of the NCSC Hybrid Hearing Initiative. The court wanted to improve their audio quality for remote appearances while keeping their existing digital court reporting process using SoniClear software.

The solution effectively addressed the challenge of integrating hybrid audio in their courtrooms, limiting acoustic obstacles encountered in challenging environments. The 394th Judicial District Court of Texas, housed in a historic building with soaring ceilings and hard surfaces, presented significant acoustic challenges. However, the Televic discussion system proved invaluable by offering dedicated audio stations at each microphone seat, eliminating the need for audio projection from specific locations within the room. This approach ensures active participation from every individual involved in the conversation, even in challenging acoustic environments.

Having a simple conversation between the judge, witness, defense and state table was effortless. With all microphones on, everyone could hear the other three from the built-in audio speaker right in front of them. When the Zoom participant joined the call, they too were heard at each station mixed together with the other people in the room.

“Who knew that a simple audio speaker in front of everyone would fix our audio problem,” commented Lori Holguin Court Coordinator. “Hearing each other and having the audio sent to our SoniClear court recording laptop now allows total flexibility in our courtroom.”

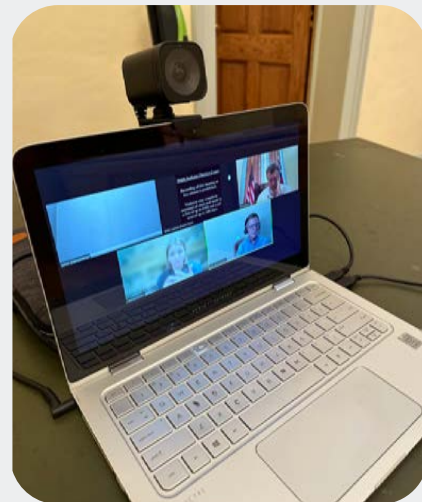


The observation from the Zoom participants also commented that the audio was very clean and clear as if each person was having a personal conversation with everyone in the room.

Future needs were discussed about audio coverage of the attorneys, who could walk in the “well area” or approach the witness. The solution for Lori was to add two wireless lavalier microphones to the Televic/Biamp Solution to ensure all audio was captured for the record. Other solutions would be to add additional microphones on the bench and jury rail as needed.

The Televic/Biamp Hybrid Hearing Core Audio Solution offers a foundational solution that effectively consolidates all audio elements for the core proceedings. To enhance its capabilities, one should consider incorporating supplementary microphone technologies and audio reinforcement - a topic worth exploring with your AV Integrator partner.

As courtrooms embrace the benefits of hybrid proceedings, the collaboration between Televic and Biamp provides an ideal base solution for seamless audio integration between in-room and remote participants as well as optimal audio routing for capturing the official record and remote monitoring. This innovative solution, which was proven through successful implementation in the 394th Judicial District of Texas, offers courtrooms with limited budgets a starting point for adopting technology and overcoming acoustic challenges. With its expandable nature, the Televic/Biamp Hybrid Hearing Core Audio Solution caters to the evolving needs of courtrooms and has the ability to streamline future audio requirements and help them navigate the digital age with confidence.



“The Televic/Biamp design ensures accurate transcripts can be produced,” observed Alan Bartholomew, President of SoniClear. “The digital court reporter or clerk can easily run the system while managing remote court appearances efficiently.”



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