

TANDBERG SOLUTIONS

TANDBERG Advantage: Audio



Premium Audio Quality Allows You to Communicate Clearly: As if You Were All in the Same Room

High performance audio provides a richer, more complete visual communication experience. TANDBERG's outstanding audio capabilities eliminate the frustration caused by background noise, echo, and other annoyances common to the average audio and video call.

CD-Quality Audio

TANDBERG's CD-quality 20kHz audio is the highest quality audio in the industry and the first to allow for true reproduction of voice and multimedia presentations. Furthering a commitment to standards and interoperability, TANDBERG has implemented the ITU standard MPEG-4 AAC-LD, which provides high quality and low delay.

Stereo Audio Enriches Multimedia Presentations

Standards-based, high performance audio for the best multimedia quality possible. Standard S/PDIF and RCA connections allow for integration with standard VCRs/DVDs and PC audio. Combined with TANDBERG's 20 KHz Audio (MPEG-4 AAC-LD), stereo audio facilitates media rich communications unmatched in the industry.

The Following Audio Features are Included in all TANDBERG Video Endpoints:

Separate echo cancellers and audio mixer

- o Improves audio quality through individual echo cancellers dedicated to each microphone - a unique feature in video endpoints
- o 4 separate echo cancellers in the TANDBERG 8000/7000/6000/Maestro
- o 2 separate echo cancellers in the TANDBERG 3000/990/880/770
- o 1 echo canceller in the TANDBERG 1000/550
- o Dynamic echo cancellation-rapidly adapts to individual room settings

Constant background noise reduction

- o Removes constant background noise to allow meeting participants to hear more clearly

Automatic gain control

- o Ensures balanced audio signals: no matter where individuals are located in relation to the microphone and regardless of their speaking volume, they will be heard at the same level
- o Can also compensate for deficiencies in third-party equipment through an option to automate gain control on audio from the remote site

Voice-activated camera positioning

- o Automatically focuses the camera on the speaker when this feature is activated

VCR ducking

- o Reduces VCR volume to allow speakers to provide voice-over comments

G.722.1 audio standard

- o Ensures the best audio quality possible, even at lower bandwidths
- o Improves video quality as well by allocating less bandwidth to audio without sacrificing quality

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Digital Natural Audio Module™ (DNAM) and Satellite Speaker Upgrade



The DNAM comes standard on the TANDBERG Maestro, TANDBERG 6000 MXP, TANDBERG 7000 MXP and TANDBERG 8000 MXP and further enhances video quality in large meeting room environments. A 3-way active speaker system with active crossovers, the new module provides 250W of power, creating clear audio for larger environments. The system also delivers a flat response across the vocal range and reproduces voice without the distortion of speech caused by television speakers.

The Satellite Speaker Upgrade maximizes the audio experience. This is a high quality speaker system designed to deliver stereo audio to visual communications. Standard with the TANDBERG 8000 MXP, it is an optional upgrade on the TANDBERG Maestro, TANDBERG 6000 MXP and TANDBERG 7000 MXP systems.

The TANDBERG Maestro, TANDBERG 6000 MXP cart and the TANDBERG 7000 MXP have been specifically designed to incorporate the DNAM.

Set-top Stereo Audio Package



The Set-top Stereo Audio Package combines center channel speaker/equalizer with high quality stereo speakers. Set-top Digital Natural Audio Module™ (Set-top DNAM) enhances video quality in small meeting room environments. Combining a 2-way active speaker system with active crossovers, the new module provides 100W of power, creating clear audio for smaller environments. The Set-top DNAM combined with high quality stereo speakers creates the highest quality audio within the set-top industry.

The TANDBERG 770 MXP, TANDBERG 880 MXP and TANDBERG 990 MXP have been specifically designed to work with the Set-top Stereo Audio Package.

Audio Science Microphone



One Audio Science Microphone can replace six or more ordinary microphones. Suspended from the ceiling, this unique microphone has a reach of 14 feet (4 meters) and offers an exceptional audio pickup range. Combined with the superior audio functionality of TANDBERG codecs and video systems, the Audio Science microphone automatically balances the different levels of sound coming from various places in the room.

The Audio Science microphone measures 52" (132cm) x 27.5" (70cm) x 13" (33cm) and weighs 24lbs (10.9kg). For maximum performance, it should be suspended between 8-10 feet (2.3-3 meters) from the floor.

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