TOA

Solutions for Houses of Worship







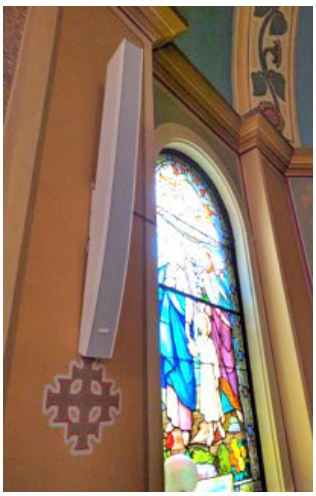


St. Josaphat Cathedral

Edmonton, Canada

St. Josaphat Cathedral is a Ukrainian Catholic cathedral in Edmonton. It is one of the best examples of Byzantine Rite church architecture in Canada. TOA successfully designed and delivered a professional sound system to improve intelligibility.







SR-H2/SR-S4S

Highland Park United Methodist Church

Dallas, Texas

Highland Park United Methodist Church upgraded its audio system with TOA H Series speakers as part of a carefully engineered under-pew sound reinforcement solution. Following detailed acoustical analysis and sanctuary modeling using EASE software, the system was designed to optimize speech intelligibility and sound distribution while preserving the church's architectural character. The result is a discreet, high-performance audio solution that delivers clear, consistent coverage throughout the worship space without compromising the sanctuary's design.



H Series Speakers

St. David's Lutheran Church

West Columbia, South Carolina

St. David's Lutheran Church in West Columbia, SC upgraded its sound system with three TOA HX-7 Variable Dispersion Speakers and a TOA FB-150 15" subwoofer to improve coverage and replace an outdated mixer.

The HX-7 speakers were configured at different angles to deliver clear, even sound throughout the sanctuary. The new system successfully supported the church's first-ever live Christmas Eve television broadcast, earning praise for its warm, natural audio quality.



HX-7/FB-150

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Specifications are subject to change without notice
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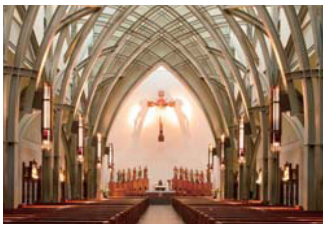
Why should a House of Worship have a sound system?

Because scripture lessons and sermons delivered by a pastor need to reach the congregation clearly. And because musical performances by choruses and bands are an integral part of religious activities.

TOA sound systems for Houses of Worship offer numerous benefits:

- They deliver high-quality sound that is both powerful and intelligible.
- Users can create sound environments that match a particular purpose. TOA's unique digital processing technology can work to minimize reverberation during speeches or make full use of it during musical performances.
- Easily adjustable acoustic settings provide the flexibility to match various usage applications.





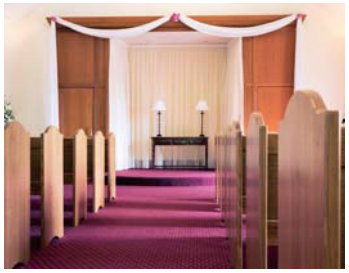




For 92 years, TOA has espoused the belief that "we supply sound, not equipment." With this in mind, we work to create sound environments suitable for sacred places of worship. A place of worship requires a sound system that enables the audio environment to be appropriately controlled—in other words, a system that can produce the optimal sound when required without emitting any unwanted sound.

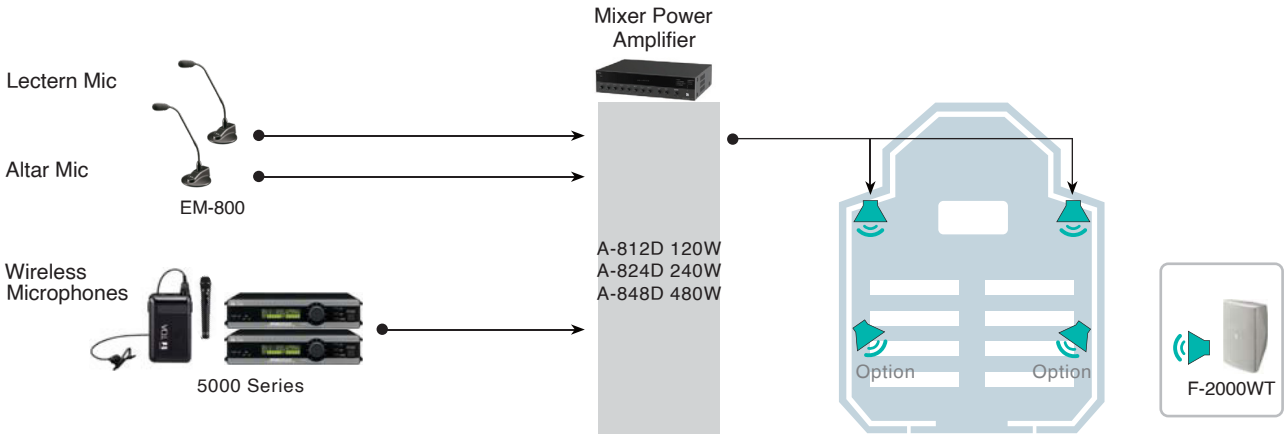
This brochure introduces a selection of our currently available sound systems. These systems can be configured in a countless variety of ways to match the type of architecture, the application, and the desired acoustic quality at the installation location.

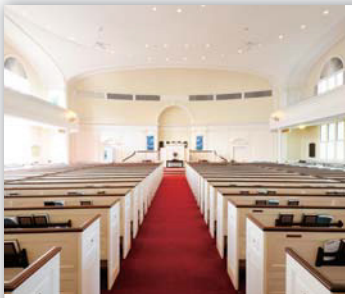
Application Examples



Basic Speech Applications

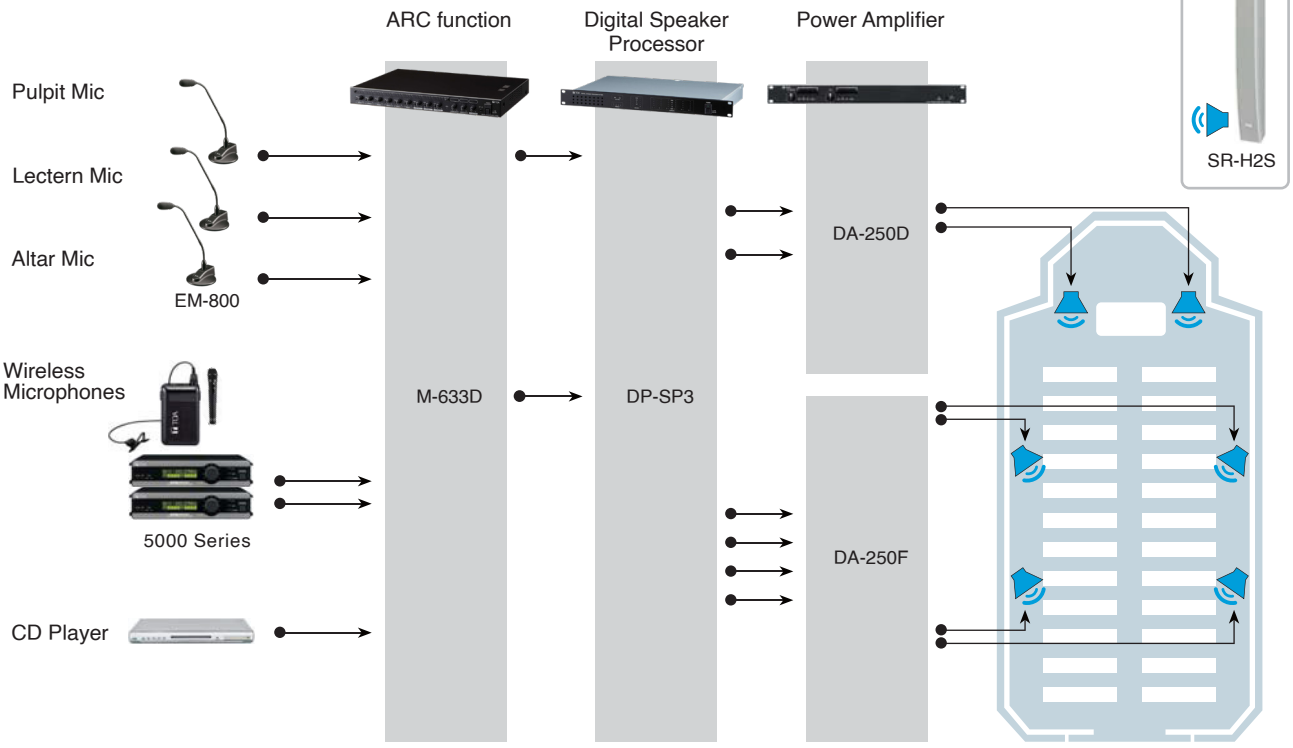
This is a simple, low-cost system comprising only the absolute essentials: a microphone, a mixer/amplifier, and an F-Box wide-dispersion speaker. It's ideal for compact venues with a small amount of reverberation and with a capacity of 100 to 200 people. Thanks to their compact size and wide angle of coverage, the F-Box series speakers can cover a targeted area with a minimum number of units.

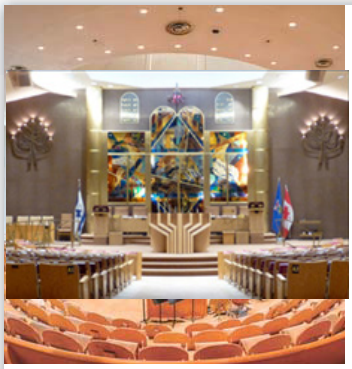




Standard Speech Applications

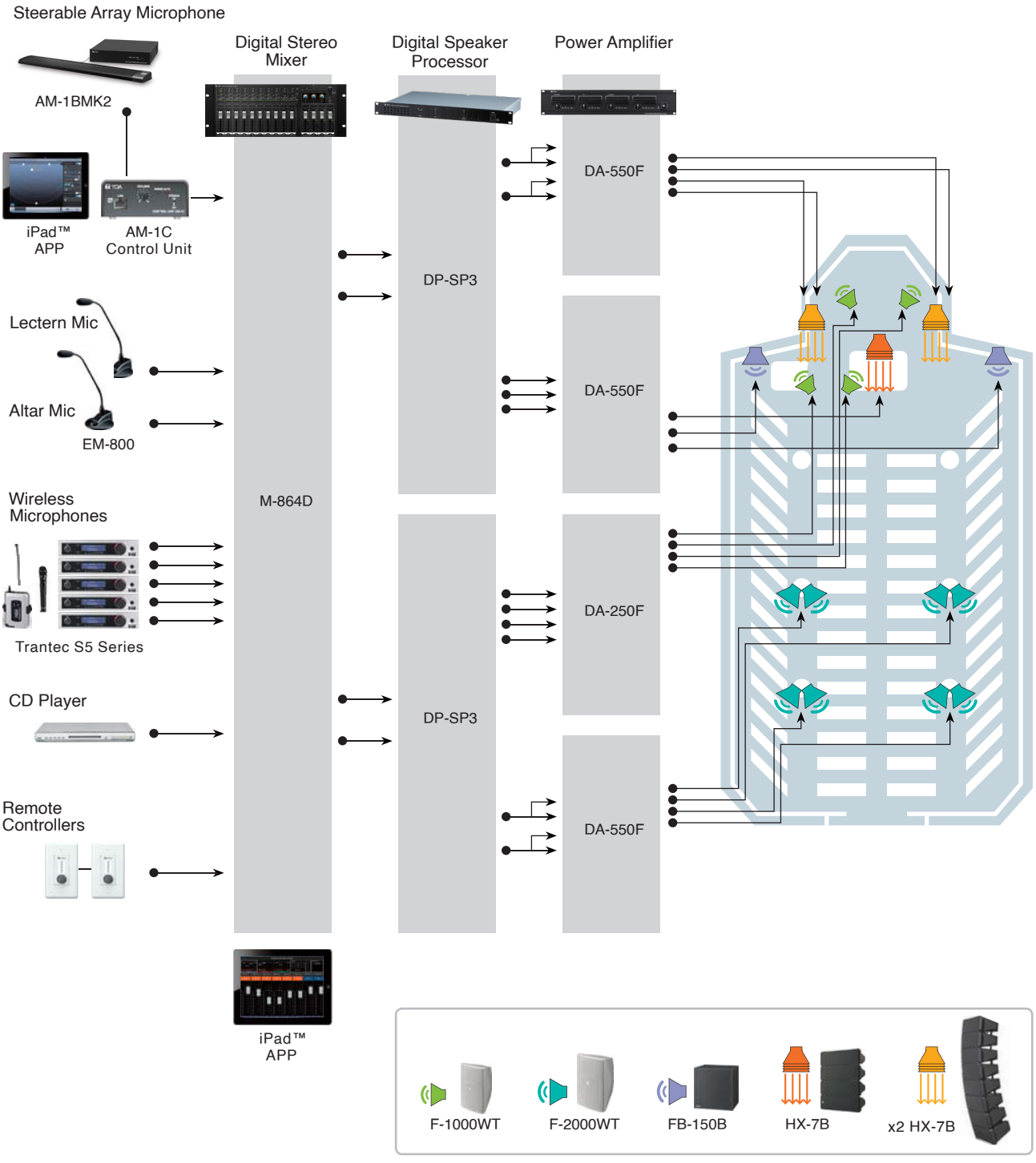
The system shown here is ideal for venues with a capacity of 400 to 500 people. At the touch of a button, the M-633D digital stereo mixer can engage its ARC (Automatic Resonance Control) function to create a sound environment with minimum reverberation. At the same time, the DP-SP3 Digital Speaker Processor takes care of speaker equalization and delay functions. Slim and stylish Type H line array speakers deliver clear sound without detracting from the architectural aesthetics of the place of worship.





Speech/Music Reinforcement Applications

Designed specifically for use in places of worship, this system supports both speech and music applications. At the touch of a button, the M-864D digital stereo mixer can engage its ARC (Automatic Resonance Control) function to create a sound environment with minimum reverberation. Using the remote control, you can easily call up preset settings made specifically for different types of events. The DP-SP3 digital speaker processor brings the best out of TOA speakers while also adding a delay effect to the rear speakers. The HX-7 variable dispersion speaker and FB-150 subwoofer provide a boost of power and intelligibility both to musical performances and to regular sermons. Meanwhile, the F-1000 wide-dispersion speaker installed in the pulpit serves as a monitor speaker.



SYNC-Drive™
SYnchronous Nexus Control

Sync-Drive is a wavefront control technology that keeps sound waves in phase with their sources at the speakers to create an ideal linear sound source. TOA's line array speakers incorporate this technology.

Sync-Drive™ Synchronous Nexus Control Drive Technology

- *Type H: Front grille delivers wide directionality for high frequencies, even without tweeters.*
- *Type S: Two-way unit array and SR-S4S clothoid curve configuration.*
- *HX-5: Variable directionality via variable arc array of the two-way module.*
- *HX-7: Wavefront control throat and variable directionality via two-way module's variable arc array.*
- *SR-D8: Variable directionality via signal processing based on the SR-S4.*

Line Array Type H

Slim enclosure for clearly intelligible speech

Designed to minimize reflection and feedback, while supporting uniformly dispersed sound and intelligible speech. Suitable for environments prone to reverberation. Slim, 84 mm (3.3")-wide enclosures with high-quality 70 mm (2.8") full-range speaker units.



SR-H2L/H3S

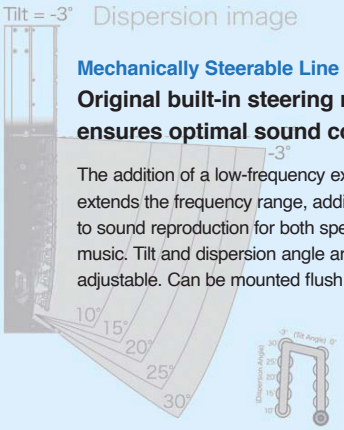
Line Array Type S

Increased power and low-frequency response compared to Type H

Designed to minimize reflection and feedback, while supporting uniformly dispersed sound and intelligible speech. Suitable for environments prone to reverberation. Multiple drivers (8 LF, 24 HF) for high sensitivity and power handling. Supports bi-amp or single-amp drive.



SR-S4S/SR-S4L



Mechanically Steerable Line Array Speaker

Original built-in steering mechanism ensures optimal sound coverage

The addition of a low-frequency expander extends the frequency range, adding depth to sound reproduction for both speech and music. Tilt and dispersion angle are manually adjustable. Can be mounted flush with walls.



SR-MF1

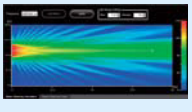
Active Line Array

DSP beam steering with instant simulation and high-speed communication

Eight built-in digital amplifiers project sound waves to targeted areas. DSP functionality includes gain, mute, compression, delay, auto-mixing, high/low pass filters, high/low shelving filters, and a notch filter. Equipped with two analog audio input terminals and four CobraNet-compatible digital audio input terminals.



SR-D8S/SR-D8M





HX-5 Series

Low-cost solution for boosting speech and music

Compact modular design includes four preassembled modules with four LF drivers and twelve HF dome tweeters. Dispersion angle adjustable to 60, 45, 30, and 15 degrees. Designed for small- to medium-sized places of worship.



HX-7 Series

Powerful variable dispersion speaker – "From a Whisper to a Scream"

Excellent sound quality for both speech and music applications. Modular speaker design includes four preassembled modules with two LF speakers and a waveguide loaded HF compression driver. Dispersion angle adjustable to 45, 30, 15, and 0 degrees (and 60 degrees with optional brackets). Suitable for medium-sized places of worship.



F-1000WT
F-1300WT
F-2000WT

F-Box Speaker

Compact enclosure and wide coverage

Two-way bass-reflex design. Wide-dispersion characteristics for better sound coverage and improved tonal response. Included accessory brackets expand options for installation.



FB-120 Subwoofer

Compact 12" subwoofer

Designed for use in conjunction with TOA HX-5 series or other full-range speakers. Ideal for reproducing dynamic low-frequency sound for religious music applications. Wide frequency range. 600W continuous program. Sensitivity (1W, 1m): 90 dB.



FB-150 Subwoofer

15" subwoofer

Designed for use in conjunction with TOA HX-7 series or other full-range speakers. Ideal for reproducing dynamic low-frequency sound for religious music applications. 600W continuous program. Sensitivity (1W, 1m): 93 dB.



DP-SP3 Digital Speaker Processor

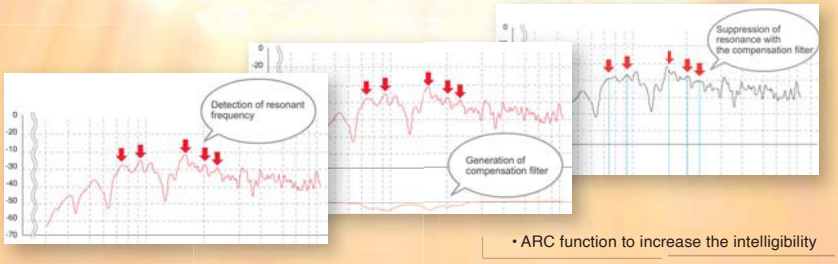
Built-in library of presets for TOA speakers

24-bit, 96 kHz sampling for clear, high-quality, realistic sound, with a full sense of presence. Two inputs and six outputs; the processor can work with a three-way multi-amp system. Includes intuitive control software. Full array of essential audio processing tools: compressor, parametric EQ, output delay, and mute.

DIGITAL MIXERS

Automatic Resonance Control (ARC)

An advanced measurement and processing algorithm that improves speech intelligibility and sound quality in facilities with challenging acoustic environments. Automatically identifies room mode frequencies and applies an inverse response curve to compensate for the measured room response.



• ARC function to increase the intelligibility

M-633D ARC FBS

Acoustic perfection at a touch

Inputs: 6 mono and 3 stereo. Outputs: 2 mono, 1 stereo, and 1 stereo rec. ARC eliminates resonance at the touch of a button, while Feedback Suppressor (FBS) automatically prevents feedback.



M-864D ARC FBS

Fader-type digital stereo mixer with ARC

Optimal sound control features: ARC, FBS, and auto mute (ducker). Preset memory enables operators to store user-specified settings to suit specific needs. Optional remote control panels permit convenient remote operation, including preset memory recall.





iPad™APP

M-9000M2

Modular matrix mixer with dual-channel DSP function

Expandable to 8-in by 8-out construction with optional modules. Includes EQ, delay, VOX switch, and compressor functions. Can store up to 32 patterns of setup parameters and event presets. A variety of remote control panels help to ensure smoothly run religious services.



Remote Control Panels

Designed for use in conjunction with M-9000M2 and M-864D.



ZM-9011 ZM-9012 ZM-9013 ZM-9014

MIXER POWER AMPLIFIERS

MA-725F AM

2 mic inputs, 4 independent line inputs, and 4 aux inputs. 1 rec out, and 4 speaker output zones. Remote volume and power controls.



A-800 Series

6 mic inputs (ON or OFF switchable for each INPUT 1-4, 2 input 900 modules, 1 rec out, preamp. Simple operation and durable construction.



DIGITAL POWER AMPLIFIERS

DA Series Multi-Channel Digital Power Amplifiers

Light and compact body. Independent power supply for each channel ensures high efficiency and reliability.



DA-250D/DH



DA-250F/FH



DA-550F/500FH

MICROPHONES



iPad™APP





AM-1C Control Unit

AM-1BMK2 Real-time Steering Array Microphone System

Innovative low-profile array microphone for places of worship

Equipped with an 8-condenser capsule, the AM-1BMK2 detects the location of the sound source and automatically steers its beam angle to focus on that source. The presenter no longer needs to be "microphone-conscious" to get a uniform sound level while speaking and moving.



EM-800/ST-800 Gooseneck Microphone/Stand

Desktop condenser microphone with unidirectional pattern

Excellent high-frequency response for clear audio output. Rejects undesirable off-axis noise to minimize potential for feedback. Ideal for speech-related applications.



EM-700 Boundary Microphone

Unobtrusive, low-profile design

Employs an electret condenser element with unidirectional pattern and low-cut switch. Ideal for recording and speech-related applications.



Lavalier Microphone

Variety of mics to meet industry requirements



TOA 5000 Series Wireless Microphone System

Offering outstanding intelligibility

Up to 16 simultaneous channels. Receiver and transmitter can be combined freely.



Trantec Wireless Microphone System

Ideal for vocalists and musicians

Up to 24 simultaneous channels. Combines with a wide variety of accessories to meet professional needs. Supports USB-based computer control and monitoring (S5.5 series).

TOA

We supply sound, not equipment.



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