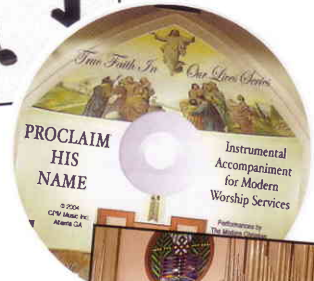




Expanded Audio Capabilities

For Today's Dynamic Music Ministries



Music in many of today's houses of worship is experiencing expansion in style and presentation, both from traditional and nontraditional directions. This has increased the complexity of—and the demand for—sound system installations.

For traditional music requirements, pipeless organs have their own audio systems to optimize their sound. A separate PA system is also required for the spoken word—and often to amplify a choir. These sound reinforcement requirements are very different, requiring unique solutions: the organ requires dispersed sound, while the spoken word requires a directional sound source.

The addition of contemporary music with digital pianos, keyboards and CD players places even more demand upon a church's audio installation. While these products require dispersed sound similar to organs, typically a separate, *third audio system* using free-standing amplifiers and speakers has been added to meet the need. This increases both the expense and the space required for sound systems.

ALLEN ORGANS WITH EXPANDED AUDIO CAPABILITIES

Allen organs with *Expanded Audio Capabilities* (EAC) offer unique solutions to reduce costs, improve tonal results, and make more efficient use of worship space. With EAC, Allen organs can serve two of the three major audio requirements for today's music ministries: High fidelity pipe organ sound that has made Allen the choice of organists throughout the world, and an advanced audio center for a digital piano or MIDI keyboard and CD player.

Allen's EAC eliminates the need for a third audio system.

The sound systems built into Allen's Protégé™ and Renaissance™ organs offer superior audio capabilities that can serve various sound reinforcement needs of today's churches. EAC's secret is advanced design in three key audio components: amplifiers, mixing and speakers.

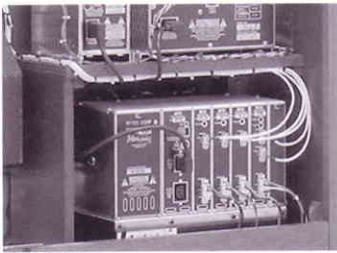


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Lower costs, increased tonal fidelity, and efficient space utilization...

Expanded Audio Capabilities offers today's dynamic music ministries unique sound solutions!

EAC—designed for today's dynamic churches.



Amplifiers

Allen amplifiers combine high power with low distortion and the latest protection circuitry to offer clean and undistorted power. Each organ includes multiple amplifiers for increased power capabilities.

M100 Amp—Renaissance™ Organs

Bandwidth: 20Hz – 20KHz
S/N Ratio: 95db; THD: 0.05%; IMD: 0.1%
Power Output: 100W RMS (M12 module);
60W RMS (M15 module)

M5 Amp—Protégé™ Organs

Bandwidth: 20Hz – 20KHz
S/N Ratio: 92db; THD: 0.03%; IMD: 0.0004%
Power Output: 60W RMS

Audio Mixing

Digital organs include multiple channels that require advanced internal mixing capabilities. Allen's unique mixing system allows the MIDI keyboard or CD player's sound to be dispersed throughout multiple amplifiers and speakers. In addition, the MIDI keyboard can take advantage of Allen's patented Acoustic Portrait™ or Virtual Acoustic™ room enhancement capabilities.

Quantum™ Based Organs

- 24-bit DAC's with floating point technology
- Acoustic Portrait™ Room Enhancement

Renaissance™ Based Organs

- 20-bit DAC's
- Virtual Acoustics™ Room Enhancement



Speaker Cabinets

Allen's Herald™ speaker cabinets (standard on Renaissance and Quantum organs, optional on Protégé) offer full-range sound with flat response, as well as superior transient response, to offer life-like sound. With multiple cabinets, sound is dispersed in a way that only the most expensive PA systems can hope to duplicate.

Allen's Seismic Radiator™ sub-woofers utilize a custom-designed 15" high-mass, super-low-frequency, double-magnet active driver to assure powerful base response.

HR-200 Cabinet

Frequency response: 30 Hz to 20 kHz
Sensitivity: 94 dB

Nominal Impedance: 8 ohms

HR-100 Cabinet

Frequency Response: 40 Hz to 20 kHz
Sensitivity: 94 dB

Nominal Impedance: 8 ohms

SR-1 Cabinet

Extends performance to 14.8 Hz

SR-5 Cabinet

Extends performance to 16 Hz

Allen organs with EAC include a convenient Input Box with three stereo pair inputs: one for a digital piano or MIDI keyboard, one for a CD player, and one for a balanced line input. The Input Box includes ground lift switches for each input to help optimize the installation.

Churches often offer separate traditional and contemporary services, or even blended programs. This has created additional challenges for churches including increased expenditures and space for audio systems. EAC addresses these needs:

- **Lower Costs**—Separate audio systems for digital pianos, MIDI keyboards, or CD players can cost thousands of dollars. With EAC, the Allen organ audio system eliminates this duplicate cost.
- **Increased Tonal Fidelity**—Floor-standing amplifiers and speakers typically used with digital pianos and MIDI keyboards do not disperse sound throughout the sanctuary. With EAC, Allen's massive audio system allows these keyboards to sing throughout the sanctuary.
- **Efficient Space Utilization**—EAC eliminates the need for floor-standing amplifiers and speakers for digital pianos and MIDI keyboards. This not only frees up precious space, but eliminates the need to set up and tear down audio equipment between traditional and contemporary services.



EAC Input Box Specifications:

- Two 1/4" Mono Phone Audio Input Jacks for MIDI Keyboard (Stereo Pair)
- Two RCA-Type Audio Input Jacks for CD Player (Stereo Pair)
- Two XLR-Type Jacks for Balanced Line Input (Stereo Pair)
- "Clipper" and bandwidth filtering circuitry to protect inputs



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