

**A**llen Organ Company has been the industry leader for seven decades. Allen introduced the world's first fully electronic organ in 1939. Then, in 1971, Allen introduced the world's first digital organ, two decades before its nearest competitor. Today, Allen's GeniSys™ technology is a generation ahead of other organs.

While all organ builders claim advanced technology, claims unsupported by demonstrable product benefits are created for marketing efforts. Today's Allen organs remain a generation ahead of others, a claim supported by exclusive features offering significant user benefits.

### Convolution Reverberation

**T**he glorious sound of a pipe organ is a complex combination of the sound produced by many individual pipes along with the way that they interact with the room. Sound is heard only after its many interactions with the room's various surfaces. These reflections modify the sound, often enhancing it. While dry acoustics make spoken words easier to understand, this environment makes music sound brittle. Organs require a more resonant acoustical environments to "sing". To meet this need, in the latter part of the 20th century, organ manufacturers used digital reverb to artificially imitate such acoustics. While digital reverb is still offered by digital organ builders, it is obsolete technology.



Today, state-of-the-art acoustical enhancement comes from "convolution" technology. Convolution utilizes sampled acoustics to recreate the sonic fingerprint of real rooms, ranging from small churches to large cathedrals. It also reproduces the important sonic interplay that occurs between individual pipes within organ chambers. Allen's Acoustic Portrait™ with convolution technology requires massive computing power - approximately 400 million calculations per second. *Unlike the artificial effect of digital reverberation, Acoustic Portrait produces the real thing!*

### GeniSys™ Display

**T**oday's organs include digital tone generation, and just as important, advanced computer control circuitry. With these technologies, organs offer dozens of customizable features such as capture combination actions, internal record and playback capabilities, dynamic voices and much more. The sheer number of these features makes them difficult to control without a modern touch screen interface.



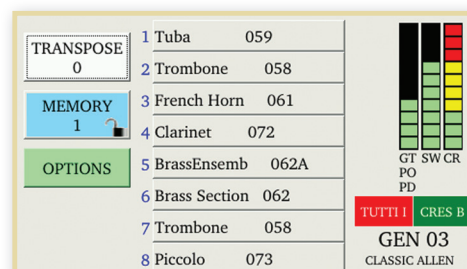
Allen's GeniSys Display is the world's easiest-to-use and most technologically advanced organ console interface. Its full-color touchscreen allows organists to access the instrument's flexibility without the need for voluminous instruction manuals. Even guest organists can feel comfortable with this control system.

GeniSys Display is years ahead of the outdated controls and cryptic messages included in other systems. All smart phones and other advanced products today offer full-color touch screen interfaces. *An expensive digital organ deserves no less!*

## GeniSys™ Voices

A modern digital organ can offer tonal flexibility that could not be imagined just a few years ago. Additional organ voices were previously only available through MIDI, adding complexity to the instruments' operation. Now, Allen's GeniSys Voices (optional on some models) offers a more advanced system, with greater flexibility and ease of use.

GeniSys Voices have their own dedicated stops that can be quickly and easily changed to over 250 different traditional organ and orchestral sounds. Each Voice is shown on Allen's GeniSys Display and are independently adjustable in volume and tuning. GeniSys Voices remain "permanent" stops of the instrument until changed by the organist, or, can be altered on a piston-by-piston basis. Finally, each GeniSys Voice can be coupled between divisions.



GeniSys Voices offer the tonal diversity of a comprehensive stop list to even modest instruments. *With unmatched ease of use, GeniSys Voices provides the organist with versatility needed for today's ever-changing musical landscape.*

## GeniSys™ Remote and Wi-Fi Connectivity

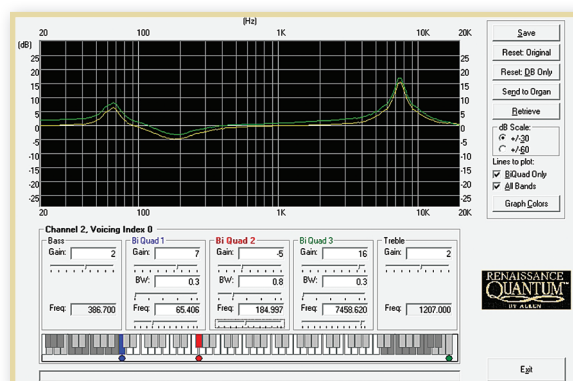
Allen GeniSys Organs include features that can be controlled remotely via smart phones or tablets. With the Allen Remote App, playback of prerecorded hymns and other musical selections included with the organ, as well as selections recorded by the organist, can be controlled from anywhere in the church. This capability assists organists during choir rehearsals and allows the instrument to be used when an organist may not be available.

*While Wi-Fi technology is found in many high-tech products, Allen is the first to bring it to organs, opening the door for advanced capabilities, as well as upgrades in the future.*



## SoundMatrix™ and Voicing Capabilities

Skilled tonal voicing is an important part of any successful organ installation. All digital organs include stop-by-stop and note-by-note voicing capabilities. But Allen Organs are not the ordinary and include exclusive voicing capabilities to ensure an organ is artistically voiced in any installation and to any organ genre.



In addition to note-by-note voicing, Allen's DOVE™ voicing software offers parametric equalization and other exclusive capabilities to assist the voicer in tailoring the sound of the organ to the room's natural acoustic.

Allen owns the world's most extensive digital library of pipe organ samples, with choices to satisfy every taste and need. Through Allen's exclusive SoundMatrix™ library, digital ranks can easily be exchanged on site to suit the organist's taste without the need for hardware changes. Allen's library includes thousands of ranks, representing the various schools of organ-building from respected pipe organ builders around the world. *While other*

*digital organs may offer a few different selections per stop, Allen's SoundMatrix library provides access to the world's greatest and most historic organs.*

## A Generation Ahead

Convolution Acoustics, GeniSys Display, GeniSys Voices, Wi-Fi controllability, SoundMatrix and advanced voicing controls offer unmatched customer benefits and lead to the finest organ installations. Only Allen Organ Company offers these advanced features making other organs obsolete.