

INFINITY SERIES KEY FEATURES



RODGERS
EXPERIENCE ELEVATED

INFINITY SERIES **KEY FEATURES**

Rodgers Infinity Series Organs provide an unprecedented level of quality, comfort and convenience. What some may think of as special extras, Infinity Series organs deliver as the standard package. It's easy to tell that Rodgers Infinity Series Organs are designed by and for people who understand what organists care about because they are working church musicians themselves.

Magnificent **Natural Pipe Realism Sound**

1. **Exclusive SSC Technology**

- Total sound generation system on a single chip.
- Improved ensemble sound due to more sources.
- Authentic attack and release characteristics.
- Adjustable windchest stability, adjustable random slight detuning.
- Improved reliability with less cables and connections.

2. **Exclusive Dimensional Sound Placement**

- This system places the played note in the same dimensional space as a pipe organ for natural pipe sound.
- Eliminates 'ping-pong bouncing' musical effect of every other note going into a different channel.
- The inspiring result is sound that flows from the instrument like a finely-voiced pipe organ.

3. **High Quality Audio System Delivers the Finest Sound**

- Rodgers external audio includes premium full-range speakers built with stable Kevlar[®] cones which provide longer wear and withstands temperature variations.

4. **Chromatically Scaled Stops**

- No two adjacent notes share the same waveform.
- Much smoother scaling of stops.
- Eliminates cluster effect of using same waveforms on groups of notes.
- Much more realistic pipe like sound quality.

5. **Dimensional Pipe Recording Process**

- This recording process uses eight microphones to capture the total pipe sound, not just the basic waveform of the pipe being sampled.

6. **Rodgers Knows Pipe Organs**

- No other electronic organ company but Rodgers has a history of building all-pipe organs and hundreds of digital/pipe combination organs.
- The world's 17th largest pipe organ was built by Rodgers, located in the 4,500-seat worship center of Second Baptist Church in Houston, Texas.

RODGERS

Extraordinary Musical Flexibility

1. Exclusive Voice Palette System

- Only Rodgers offers the organist the ability to select the primary stop sound or the optional stop sound on any specific drawknob without affecting the selection status of other drawknobs. The primary or optional stop selected can be programmed into a piston for immediate recall. All Voice Palette options are available real-time, unlike some other organ companies that restrict the organist to an alternate genre of stops that affect all drawknobs.

2. Exclusive Library Access

- This exclusive Rodgers feature allows the organist to select from the organ's entire premium library of 121 organ stops and 59 orchestral voices. Every manual and pedal division of the organ features two Library Access stops with the floating Solo division having one Library Access stop. Each Library Access stop is user-voiceable for volume, octave, tone and tuning and can be saved into pistons for any registration. Like organ stops, each Library Access selection responds to couplers by default but can be user-configured not to be affected by couplers.

3. Floating Solo Division (on 2- and 3-manual Infinity Organs)

- The Rodgers Infinity 243 and 361 organs feature a floating Solo division of stops that can be assigned to different manuals, increasing the musical flexibility of the organ. The Rodgers Infinity 484's fourth manual plays the Solo division stops.

4. Inter and Intra Manual Couplers

- All Infinity organs feature a complement of intra-manual couplers for coupling sounds together from various manuals and inter-manual couplers providing for special coupling arrangements within a given division of the organ.

5. Organ Type Piston

- This piston gives the organist immediate access to four different default voicings for the entire instrument. They include American Eclectic, English Cathedral, French Romantic and German Baroque.

6. Two MIDI Couplers per Division

- Rodgers Infinity organs feature two MIDI pistons for each manual and pedal division of the organ maximizing the tonal expansion of the organ.

7. True Chimes

- Infinity organs feature Rodgers famous True Chimes, the most authentic sounding chimes available in a digital organ.

8. Melody Couplers and Bass Coupler

- Melody Couplers, when accessed by thumb pistons engraved MEL SW, MEL CH, or MEL SO, sounds that division's stop registration only on the top note of chords played on the Great manual.
- The Bass Coupler allows the organist to play the Pedal registration on the lowest note of chords played on the Great manual.

9. Transposer

- All Infinity organs can change the key of music played live, or playback of a sequenced file or a hymn in the Hymn Player by use of the Transposer.

Unmatched **Control and Assistance**

1. **Lighted drawknobs are standard; mechanical drawknobs are optional.**
2. **Combination action with 99 memory levels.** Some digital organs feature only 16 memory levels to store combination action registrations.
3. **USB memory storage**
 - Allows saving and recall from an unlimited number of memory levels beyond the 99 memory levels available in the console.
 - Song files can be saved to the USB memory device.
4. **Demo songs**
 - Infinity organs feature built-in demo songs that include music for worship as well as standard organ literature.
5. **Hymn Player**
 - Rodgers' Hymn Player features 350 public domain hymn tunes complete with registrations that change on every hymn selected, plus transposing, tempo adjustment, introductions and additional verse capability.
6. **Built-in Record/Playback**
 - Infinity organs feature very simple to use built-in recording and playback capability offering the organist the ability to record, play back, and save files.
7. **Adjustable Bench with Music Storage**
 - Infinity organs come with an adjustable bench as standard equipment. This unique bench design has a lift-lid that accesses a music storage compartment.
8. **Four-way Adjustable Music Desk**
 - Infinity organs feature a four-way adjustable lighted music desk as standard equipment. The music desk can be raised or lowered as well as moved toward or away from the organist.
9. **Infinity organs offer built-in support for AirTurn™** hands-free page turning using programmable thumb or toe pistons for music displayed on a mobile device.
10. **Infinity organs offer a high-power USB power port** located on the right end of the music desk to charge mobile devices.
11. **Infinity organs are compatible with Rodgers Remote**, a free app for the iPhone that allows remote playback of organ music files, including the ability to change the volume, tempo and key.

Performance Touch™ Keyboards

Material and Color

- “Ivory Feel” matte keys for beauty and appearance.
- Comfortable moisture-absorbent material prevents slippage caused by perspiration.

Performance

- Tension and weight gives the feel of a pipe organ keyboard’s touch.
- The tracker touch option provides the realistic initial ‘give’ zone for an authentic tracker pipe organ action feel, incorporating the use of a silicone rubber spring.
- Each key has 128 levels of velocity sensitivity for maximum expression for piano, orchestral, and percussion voices and MIDI.
- The contact uses a silicone rubber switch with a consistently controlled strike point.
- The stability of the keyboard and the consistency of the striking points determine perfect accuracy.

Reliability and Longevity

- Each key has an enclosed dome dual microswitch for trouble-free performance, completely sealed, impervious to dust and dirt.
- Long-life micro switches for the ultimate in keyboard reliability and velocity sensitivity.
- Impervious to temperature and humidity changes.
- Rugged reinforced metal key frame for structural integrity and durability.
- Each key has a metal stick for warp-free perfect alignment.
- No cross motion.
- No adjustments required.

Testing

- Tested perfectly with 2 million fortissimo strikes on each key, equivalent to repeating each key faster than humanly possible with maximum force for 6 days.
- Vibration resistance tested from 3Hz to 70Hz for 5 hours.
- Tested perfectly 24 hours at -22° F in two cycles and 24 hours at 140° F in two cycles.

The preferred keyboard of world-renowned organists

- Chosen for their comfortability, reliability, consistency, feel, responsiveness.
- They are quiet.
- There is very little ‘play’ in the keyboard and its frame that they are maintenance-free.

RODGERS

Unique Console Construction and Features

1. Console Construction

- Rodgers builds Infinity Series consoles with a rugged inner shell of 13-ply Baltic Birch multi-laminate hardwood for dimensional stability and longevity. The outer shell case of MDF panels are applied to each side of the core and identically finished. MDF is used for its stability and the ideal surface for applying veneer. Infinity organs use the most expensive premium rift-sawn veneers. Cuts are not made adjacent to one another (as they are with plain-sawn or quarter-sawn veneers), and it results in the most consistent grain, without any flecks associated with other cuts, resulting from the medullary rays on quarter sawn, or the “cathedral grain” of plain sawn.
- Each console is subjected to and surpasses rigorous quality and safety testing including console stability, durability of finishes and veneers, energy consumption, electromagnetic interference safety, and bench weight tolerance.

2. Self-Contained/Self-Adjusting Pedal Board Switching

- Eliminates the need for future adjustments due to console settling into carpet.
- Automatically adjusts switching range with every power-on of the organ.

3. Velocity-Sensitive Pedal Board

- Rodgers offers MIDI velocity sensitivity on the pedals which is useful for percussive voices such as piano, string bass, or timpani. This is unique to the industry, nobody else makes velocity-sensitive pedalboards. Our pedalboards are velocity-sensitive to 128 levels, just like our keyboards.

4. Rodent Protection

- Standard instead of an option.

5. All LED Lighting

- Safe, efficient, extra-long life reduces the need for frequent incandescent bulb replacement.
- Warm hued LED lighting for the music desk and pedalboard.
- Independent adjustable controls for light intensity.

6. UHT Wooden Keyboard Option

- The finest wooden keyboard, built for organs by Ulrich Hermann Tastaturbau.
- Wooden keyboards with MIDI velocity sensitivity.
- Adjustable touch, weight, position, motion.
- All electronic switching for maximum long term reliability.

7. Headphone Jack: standard on all Rodgers organs, conveniently located.

8. LCD Screen: centrally located, provides convenient visual access to the organ’s menus.

9. Configurable Toe Pistons: to change the number order or function.

10. Greener and Cleaner

- Compact circuit boards and surface-mount components run the organ faster and more efficiently, using a fraction of the energy compared to other organ consoles.
- An adjustable built-in sensor that shuts the organ down after a period of inactivity.

Facts about **SSC**

What Does SSC Stand For?

- SSC stands for “Sound System on a Chip.” Its revolutionary impact might be better understood as the “Simple Solution to Complexity.” One super chip performs a multitude of tasks in blazing speed and efficiency.

What are the Advantages?

- SSC manages the software, waveform files and processing functions unique to the demands of organ performance. Because SSC is dramatically more powerful than older technologies, it stores much longer, highly defined and detail-rich pipe organ samples.
- SSC supports a vastly expanded range of voicing settings with over 20 parameters, including note-by-note equalization.
- It is the robust engine behind greater realism in tremulant simulation, swell shutter Doppler effects, touch responsive attack and release, wind chest panning and much more.
- Its single-chip design eliminates all the cables and connections normally required between multiple boards that control the operating system, wave storage and sound generation, digital signal processing, and USB hosting.
- By combining all these functions on one chip, reliability is greatly enhanced. There’s simply less to go wrong.
- SSC based instruments operate on significantly less power than previous generations, while offering approximately 5 times the computational power and 10 times the wave memory.
- Because of vast wave memory resources, it is not necessary to “borrow” sounds from other divisions.
- SSC supports a vastly expanded range of voicing parameters (including note-by-note), all adjustable in real time from the console.
- Clunky cages for electronic shielding are not necessary. Our circuitry is designed from inception to meet global EMI limitations.
- SSC and associated circuitry meets the European Union ErP (Energy Related Products directive) requirements for safety and energy efficiency. This is necessary to qualify for the CE mark, the abbreviation of French phrase “Conformité Européene” which literally means “European Conformity”.
- Rodgers utilizes many of the same SSC components throughout the Classic, Artist, and Infinity series instruments. This efficiency results in enhanced product value, lower cost of replacement boards, and anticipated availability of parts far into the future.

Only on **Infinity Series**

While the Classic, Artist, and Infinity Series are built on the same SSC technology platform, there are many differences in the result.

Sound

- The Infinity Series uses significantly more sound data per stop.
- Only the Infinity Series incorporates “Chromatically Scaled Stops”.
- Pipe samples are recorded with up to 8 microphones.
- Complete compliment of orchestral voices.
- Voicing is far more robust in the Infinity Series.
- Available audio channels are doubled in the Infinity Series.
- External audio only, no internal audio in the console.

Cabinet

- Two-tone or multiple finish case and inset are only available for Infinity Series organs.
- Rodent protection is standard.
- Custom rift sawn hardwood veneers are available for Infinity Series organs.
- Choice of Classic or Traditional trim is only available for Infinity Series organs.
- The four-way adjustable music desk is standard for Infinity Series organs.
- The adjustable bench with storage is standard for Infinity Series organs.

Controls

- Super and Sub couplers for the Swell and Choir divisions are only available on the Infinity Series.
- UHT wood keyboard option is only available on Infinity Series.
- Floating Solo division for 2 and 3 manual Infinity organs.
- Expanded library of orchestral sounds.
- Customizable function and piston controls.
- Stops are on drawknob controls, couplers are on tabs.
- Super and sub octave couplers.
- AirTurn capability to turn pages on a mobile device.
- Rodgers Remote app for remote playback.
- Charging port for mobile devices located on the music desk.
- 99 memory levels.

Customization

- Custom finishes are available for the console and bench.
- Customizable engravings of drawknobs and divisional tags.
- Customizable thumb and toe piston functionality.

Rodgers Infinity Feature Comparisons

	Infinity 243	Infinity 361	Infinity 484
			
Manuals	2	3	4
Main stops	43	61	84
Voice Palette stops	99	135	179
Main + VP stops	142	196	263
Library Access organ stops (on each "L" knob)	121	121	121
Library Access orchestral voices (on each "L" knob)	59	59	59
Total stops and voices	322	376	443
Equivalent pipe ranks (Stops and VPs only)	213	300	398
Internal memory levels	99	99	99
SSC chips	4	6	11
Pedal division stop count	12	15	19
Swell division stop count	14	15	21
Great division stop count	13	11	14
Choir division stop count	0	12	17
Solo division stop count	4	6	10
Couplers	9	25	25
Standard external audio channels	6	8	10
General thumb pistons	10	12	12
Swell divisional thumb pistons	5	5	5
Great divisional thumb pistons	5	5	5
Choir divisional thumb pistons	0	5	5
Solo divisional thumb pistons	0	5	5
General toe pistons	5	12	12
Pedal divisional toe pistons	3	5	5
Shoes for Expression and Crescendo	2, 1	2, 1	3, 1
Configurable toe pistons	10	24	23
Configurable tab engravings shipped with console	3	4	4

DEDICATED TO
MOVING HEARTS AND SOULS

Since 1958, Rodgers has been committed to heightening the spiritual experience of audiences with the transformational power of music. Rodgers organs not only capture the essence of American pipe organ sound, they have led the way in making organs more accessible to places of worship, universities, music schools, and enthusiasts around the world.

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