

GENISYS™
ALLEN TO-5X

55 RANK / FIVE-MANUAL UNIT ORCHESTRA THEATRE ORGAN
Featuring Four Stop List Scaling and Acoustic Portrait™ Technology



Allen TO-5X 55 Rank / Five-Manual Unit Orchestra Theatre Organ

Specifications

PEDAL

32 Contra Diaphone
32 Contra Tibia S
32 Contra Violone
16 Double English Horn
16 Bombarde
16 Ophicleide
16 Diaphone
16 Diaphonic Horn
16 Tibia Clausa S
16 Tibia Clausa M
16 Clarinet
16 Bass String (2 rks)
16 Oboe Horn
16 Violone
16 Bourdon
16 Dulciana (2 rks)
8 English Horn
8 Tuba Mirabilis
8 Tuba Horn
8 Diaphonic Diapason
8 Open Diapason
8 Horn Diapason
8 Tibia Clausa
8 Tibia Clausa
8 Tibia Clausa Pizz
8 Clarinet
8 Major Strings (4 rks)
8 Minor Strings (6 rks)
8 French Horn
8 Oboe Horn
8 Concert Flute
16 Piano
8 Piano
Bass Drum
Tympani
Crash Cymbal
Tap Cymbal
Brush Cymbal
Finger Cymbal
Triangle
Accomp to Pedal
Great to Pedal
Great Octave Pedal
Solo on Pedal
MIDI on Pedal
Accomp Traps to Pedal

ACCOMPANIMENT

8 English Horn
8 Tuba Mirabilis
8 Solo Trumpet
8 Chorus Trumpet
8 Tuba Horn
8 Diaphonic Diapason
8 Open Diapason
8 Horn Diapason
8 Tibia Clausa S
8 Tibia Clausa M
8 Clarinet
8 Solo String (2 rks)
8 Gamba (2 rks)
8 Cello (2 rks)
8 Viol d'Orchestre (2 rks)
8 Salicional (2 rks)
8 French Horn
8 Oboe Horn
8 Quintadena
8 Lieblich Flute
8 Concert Flute
8 Spitz Flute (2 rks)
8 Vox Humana
8 Vox Humana
8 Dulciana (2 rks)
4 Octave Open
4 Octave Horn
4 Piccolo M
4 Solo String (2 rks)
4 Gambette (2 rks)
4 Cello (2 rks)
4 Viol (2 rks)
4 Salicet (2 rks)
4 Lieblich Flute
4 Concert Flute
4 Spitz Flute (2 rks)
4 Vox Humana
4 Vox Humana
4 Dulcet (2 rks)
2 2/3 Lieblich Twelfth
2 2/3 Twelfth
2 Lieblich Piccolo
2 Piccolo
8 Piano
Wood Harp Sub
Wood Harp
Metal Harp
Chrysoglott
Snare Drum
Castanets
Tambourine
Wood Block
Tom-Tom
Hi Hat
Tap Cymbal
Brush Cymbal
Octave
Solo to Accomp
MIDI on Accomp

GREAT

16 Double English Horn
16 Bombarde
16 Solo Trumpet (Ten C)
16 Chorus Trumpet (Ten C)
16 Ophicleide
16 Diaphone
16 Open Diapason (Ten C)
16 Diaphonic Horn
16 Tibia Clausa
16 Tibia Clausa (Ten C)
16 Tibia Clausa
16 Clarinet
16 Orchestral Oboe (Ten C)
16 Musette (Ten C)
16 Saxophone (Ten C)
16 Solo String (2 rks)
16 Gamba (2 rks)
16 Cello (2 rks)
16 Minor Strings (4 rks)
16 Krumet (Ten C)
16 Cor Anglais (Ten C)
16 Oboe Horn
16 Quintadena (Ten C)
16 Bourdon
16 Vox Humana (Ten C)
16 Vox Humana (Ten C)
16 Dulciana (2 rks)
8 English Horn
8 Tuba Mirabilis
8 Solo Trumpet
8 Chorus Trumpet
8 Tuba Horn
8 Diaphonic Diapason
8 Open Diapason
8 Horn Diapason
8 Tibia Clausa
8 Tibia Clausa
8 Tibia Clausa
8 Clarinet
8 Kinura
8 Orchestral Oboe
8 Musette
8 Saxophone
8 Solo String (2 rks)
8 Gamba (2 rks)
8 Cello (2 rks)
8 Viol d'Orchestre (2 rks)
8 Salicional (2 rks)
8 Krumet
8 Cor Anglais
8 French Horn
8 Oboe Horn
8 Quintadena
8 Lieblich Flute
8 Concert Flute
8 Spitz Flute (2 rks)
8 Vox Humana
8 Vox Humana
8 Dulciana (2 rks)
5 1/3 Fifth (Tibia S)
5 1/3 Fifth (Tibia M)
4 Octave
4 Octave Open
4 Octave Horn
4 Piccolo
4 Piccolo
4 Piccolo
4 Solo String (2 rks)
4 Gambette (2 rks)
4 Cello (2 rks)
4 Viol (2 rks)
4 Salicet (2 rks)
4 Harmonic Flute
4 Lieblich Flute
4 Spitz Flute (2 rks)
4 Dulcet (2 rks)
3 1/5 Tenth (Tibia M)
2 2/3 Twelfth (Tibia S)
2 2/3 Twelfth (Tibia M)
2 2/3 Lieblich Twelfth
2 Piccolo (Tibia)
2 Piccolo (Tibia)
2 Piccolo (Tibia)
2 Fifteenth
2 Lieblich Piccolo
1 3/5 Lieblich Tierce
1 Lieblich Fife
8 Piano
4 Piano
Wood Harp Sub
Wood Harp
Xylophone Sub
Xylophone
Glockenspiel
Chrysoglott
Sub Octave
Unison Off
Octave
Solo on Great
MIDI on Great



SOUND | TECHNOLOGY | SUSTAINABILITY

ORCHESTRAL

16 Double English Horn
 16 Solo Trumpet (Ten C)
 16 Ophicleide
 16 Tibia Clausa
 16 Tibia Clausa (Ten C)
 16 Tibia Clausa
 16 Saxophone (Ten C)
 16 Major Strings (4 rks)
 16 Minor Strings (6 rks)
 16 Vox Humana (Ten C)
 16 Vox Humana (Ten C)
 8 English Horn
 8 Tuba Mirabilis
 8 Solo Trumpet
 8 Chorus Trumpet
 8 Style D Trumpet
 8 Tuba Horn
 8 Open Diapason
 8 Horn Diapason
 8 Tibia Clausa
 8 Tibia Clausa
 8 Tibia Clausa
 8 Clarinet
 8 Orchestral Oboe
 8 Musette
 8 Saxophone
 8 Solo String (2 rks)
 8 Gamba (2 rks)
 8 Cello (2 rks)
 8 Minor Strings (4 rks)
 8 Krumet
 8 Cor Anglais
 8 French Horn
 8 Vox Humana
 8 Vox Humana
 4 Piccolo
 4 Piccolo
 4 Piccolo
 4 Solo String (2 rks)
 4 Mezzo Strings (4 rks)
 4 Minor Strings (4 rks)
 4 Harmonic Flute
 2 ²/₃ Twelfth (Tibia S)
 2 ²/₃ Twelfth (Tibia M)
 2 Piccolo (Tibia S)
 2 Piccolo (Tibia M)
 1 ³/₅ Tierce (Tibia M)
 8 Piano
 Wood Harp
 Xylophone
 Glockenspiel
 Metal Harp
 Vibraharp
 Chrysoglott
 Sub Octave
 Unison Off
 Octave
 Solo on Orch
 MIDI on Orch

ANCILLARY

8 Principal
 4 Octave
 2 Superoctave
 Mixture IV
 8 Fanfare Trumpet

BOMBARDE

16 Double English Horn
 8 English Horn
 8 Tuba Mirabilis
 8 Solo Trumpet
 8 Chorus Trumpet
 8 Style D Trumpet
 8 Tuba Horn
 8 Diaphonic Diapason
 8 Open Diapason
 8 Tibia Clausa
 8 Tibia Clausa
 8 Tibia Clausa
 8 Saxophone
 8 Major Strings (4 rks)
 8 Minor Strings (6 rks)
 8 Vox Humana
 8 Vox Humana
 4 Piccolo
 4 Piccolo
 4 Piccolo
 4 Major Strings (4 rks)
 4 Minor Strings (6 rks)
 2 ²/₃ Twelfth (Tibia S)
 2 ²/₃ Twelfth (Tibia M)
 2 Piccolo (Tibia)
 2 Piccolo (Tibia)
 2 Piccolo (Tibia)
 1 Fife (Tibia M)
 8 Piano
 Xylophone
 Glockenspiel
 Vibraharp
 Chrysoglott
 Sub Octave
 Unison Off
 Octave
 Great to Bombarde
 Great Octave Bombarde
 Orch to Bombarde
 Solo on Bombarde
 MIDI on Bombarde

SOLO

8 Fanfare Trumpet
 8 English Horn
 8 Tuba Mirabilis
 8 Solo Trumpet
 8 Chorus Trumpet
 8 Style D Trumpet
 8 Tuba Horn
 8 Diaphonic Diapason
 8 Open Diapason
 8 Tibia Clausa
 8 Tibia Clausa
 8 Tibia Clausa
 8 Clarinet
 8 Kinura
 8 Orchestral Oboe
 8 Musette
 8 Saxophone
 8 Major Strings (4 rks)
 8 Minor Strings (6 rks)
 8 Krumet
 8 Cor Anglais
 8 French Horn
 8 Oboe Horn
 8 Vox Humana
 8 Vox Humana
 8 Piccolo
 4 Piccolo
 4 Piccolo
 4 Harmonic Flute
 2 ²/₃ Twelfth (Tibia S)
 2 ²/₃ Twelfth (Tibia M)
 2 Piccolo (Tibia)
 2 Piccolo (Tibia)
 2 Piccolo (Tibia)
 1 ³/₅ Tierce (Tibia S)
 1 ³/₅ Tierce (Tibia M)
 1 ¹/₃ Larigot (Tibia M)
 Sub Octave
 Unison Off
 Octave
 MIDI on Solo
 8 Piano
 Wood Harp Sub
 Xylophone
 Glockenspiel
 Metal Harp
 Vibraharp
 Cathedral Chimes

ACCOMP 2nd Touch

8 English Horn
 8 Tuba Mirabilis
 8 Solo Trumpet
 8 Chorus Trumpet
 8 Tuba Horn
 8 Diaphonic Diapason
 8 Tibia Clausa S
 8 Tibia Clausa M
 8 Clarinet
 8 French Horn
 4 Piccolo (2 rks)
 Glockenspiel Octave
 Cathedral Chimes
 Percussions 2nd Touch
 Traps 2nd Touch
 Great Octave Accomp
 Solo on Accomp
 MIDI on Accomp

GREAT 2nd Touch

English Horn 16-8
 Solo on Great
 Solo on Great Pizz
 MIDI on Great

TREMULANTS

Main
 Main Strings
 Clarinet
 Tibias/Sax/Voxes
 Solo
 Solo Strings
 Tubas
 Trumpets
 English Horn

Key check pistons

Unisons Off
 Celestes Off
 Main Vox 1 Off
 Main Vox 2 On
 Solo Vox 1 Off
 Solo Vox 2 On
 Chorus Trumpet Off
 Style D Trumpet On
 Quintadena Celeste
 Horn Diapason Celeste
 Master Expression
 Marimba Re-it
 Chrysoglott Motor
 Vibraharp Motor
 Ancillary on Solo
 Ancillary on Orch
 Ancillary on Bombarde
 Ancillary on Great
 Ancillary on Accomp
 Ancillary on Pedal

Toe Piston Effects

Persian Cymbal
 Gong
 Wind Chimes
 Train
 Birds

FEATURES:

- GENISYS™ Display - Advanced touchscreen control of many of the organ's functions and features, offering seamless control and ease-of-use.
- OST™ (Optical Sensor Technology) keying on Solo, Orchestral, Bombarde
- 2nd Touch on Great and Accompaniment
- Expression: Percussion, Main, Solo; Crescendo
- 22 Toe Studs
- Standard finishes available: cherry-on-walnut or walnut

ALLEN TO-5X THEATRE ORGAN

55 Rank / Five-Manual

Unit Orchestra Theatre Organ

Specifications—Continued

CHAMBER ANALYSIS

Main

- 1 Chorus Trumpet 8
- 2 Tuba Horn 16-4
- 3 "D" Trumpet 8
- 4 Diaphonic Diapason 32-4
- 5 Open Diapason 8-4
- 6 Tibia Clausa 16-2
- 7 Clarinet 16-8
- 8 Musette 8
- 9 Cor Anglais 8
- 10 Gamba 8-4
- 11 Gamba Celeste 8-4
- 12 Viol d'Orchestra 8-2
- 13 Viol Celeste 8-4
- 14 Salicional 8-2
- 15 Salicional Celeste 8-4
- 16 Oboe Horn 16-8
- 17 Harmonic Flute 4
- 18 Concert Flute 16-4
- 19 Dulciana 16-4
- 20 Dulciana Celeste 16-4
- 21 Vox Humana 8-4
- 22 Vox Humana #2 8-4
- 23 Violone (Pedal) 32-16
- Chrysoglott

Solo

- 24 English Posthorn 16-8
- 25 Tuba Mirabilis 16-8
- 26 Brass Trumpet 8
- 27 Horn Diapason/Diaphone 16-4
- 28 Horn Diapason Celeste 8-4
- 29 Tibia Clausa 32-2
- 30 Brass Saxophone 8
- 31 Orchestral Oboe 8
- 32 Kinura 8
- 33 Krumet 8
- 34 Solo String 16-4
- 35 Solo String Celeste 8-4
- 36 Cello 8-4
- 37 Cello Celeste 8-4
- 38 French Horn 8
- 39 Quintadena 8
- 40 Quintadena Celeste 8
- 41-42 Lieblich Flute 8-2
- 43 Spitzflute Celeste II 8-4
- 44 Vox Humana 8-4
- 45 Vox Humana #2 8-4

Ancillary

- 46 Principal 8
- 47 Octave 4
- 48 Superoctave 2
- 49-52 Mixture IV
- 53 Trompette en-chamade 8

Percussion

- 54 Tibia Clausa 8-2
- 55 8' Pedal Tibia Pizzicato
- Piano
- Wood Harp
- Wood Harp Re-it
- Metal Harp
- Vibraharp
- Xylophone
- Glockenspiel
- Chimes

Traps

- Bass Drum
- Tympani
- Crash Cymbal
- Tap Cymbal
- Brush Cymbal
- Finger Cymbal
- Choke Cymbal
- Wood Block
- Tambourine
- Castanets
- Tom-tom
- Snare Drum

Sound Effects

- Persian Cymbal
- Train
- Wind Chimes
- Birds
- Gong

Specifications and stop lists subject to change without notice or obligation.

Note-by-note voicing, tuning, and regulation are only the beginning. The accuracy of digitally-sampled tremulants and the spatial dimension of Acoustic Portrait™ actual sampled acoustics show you why Allen's Theatre Organs are taking the theatre world by storm.

Featuring:

- Patented Allen Technology with Four Separate Scaling Possibilities
- Acoustic Portrait™ Sampled Reverb
- GENISYS™ Display - Advanced touchscreen control of many of the organ's functions and features, offering seamless control and ease-of-use.
- GENISYS™ Voices - Variable stops with hundreds of organ and instrumental voice possibilities offering unmatched tonal versatility.
- Stop-by-Stop and Note-by-Note Voicing
- Deluxe Mechanical Stop Action
- User Reconfigurable Pistons
- Individually Adjustable Felted Keys
- Advanced MIDI Capabilities



Acoustic Portrait™

Allen instruments are the only digital organs to bring the science of sampling to acoustics! Ordinary electronic reverb is a synthetic imitation of acoustics "applied to" the sound, not created as an integral part of it. Acoustic Portrait™ produces the real thing in exacting detail!

Acoustic Portrait™ begins with a sampling process using impulse responses that measure an actual room's acoustic properties. These measurements are then stored in the organ's computer memory. Through an advanced real-time mathematical process called convolution, the acoustics of the sampled room actually become an integral part of the organ's sound, producing a noticeably smoother, more natural result than synthetic reverb. Allen engineers have recorded the acoustics of cathedrals and other acoustically desirable buildings throughout the world. With advanced processors (DSPs) and patented low-latency convolution algorithms, Acoustic Portrait™ reproduces the true acoustic response of each original room with stunning realism! Each Allen organ features 10 different Acoustic Portraits, ranging from intimate rooms to cavernous cathedrals.

- Audio System: 25 Channels; 8 HR-200 Speakers, 14 HR-100 Speakers, 3 SR-5 Speakers; Optional 2-Channel Reflections™ Package with 2 HR-100 Speakers.
- Combination Action: 30 General Pistons; 10 Divisionals for each manual; 6 Divisionals for Pedal; 2 Divisionals for Ancillary.
- Height: 62.5" without music rack; 71.75" with music rack; Width: 71.25"; Depth: 65" with pedalboard and bench.