{Sonus$^\varphi$}

Sonus 70 dlx

AT THE CENTRE OF SOUND

We have devoted special attention to the amplification system, in order to faithfully reproduce the impressive dynamics, the wide sound spectrum, and all the amazing spaciousness of the pipe organ sound.

A revolutionary system called RAR (Real Audio Rendering) is able to recreate with great accuracy the acoustic field produced by a real pipe organ in a large reverberant space. The detailed parameterization given by Physical Modelling, combined with the careful and lengthy work of components integration, has made the sound from the different speakers extremely natural.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	
Manuals	3 x 61 notes
Keyboards	"Tracker touch" type keyboards, with velocity control for MIDI and Orchestra sections
Pedalboard	32 notes straight, straight concave, radiating concave
Stop Type	Tilting tab
Audio Amplifiers	9 channels, 8 x 60 Watt + 1 x 100 Watt
Speakers	13
Expression Pedals	2, Man.I and Man.III
Crescendo Pedal	Yes, with 16 programmable steps
STOPS and VOICES	
Pedal	11 + 1 orchestral voice
Manual I	11 + 1 orchestral voice
Manual II	13 + 1 orchestral voice
Manual III	15 + 1 orchestral voice
Total Speaking Stops	50 + 4 orchestral voices. Hundreds of organ stops in the internal sound bank.
Organ Styles	4 Preset + 4 User. Hundreds of sound styles can be loaded and/or stored from/to internal memory and USB pen drive.
Alternative Voices	Yes, additional organ voices are selectable for each stop
Orchestral Voices	Yes, 33 orchestral voices are selectable for dedicated stops
ACCESSORIES	
Memories	8 general pistons, 16 banks, 128 total memories. Tens of thousands with USB pen drive.
Piston Sequencer	Yes, "Prev." - "Next" thumb pistons and toe pistons
Automatic Pedal	Yes
Enclosed piston	Yes
Couplers	I/P - II/P - III/P - I/II - III/II - III/I
Toe Pistons	9 (6 couplers, "Prev.", "Next" and "Tutti")
Transposer	-6/+5 semitones
General Volume - Reverb Volume	Yes, with rotary potentiometers
Divisional Midi Enable	Yes, through thumb pistons
Orchestra and Midi Sustain	Kick switch located on the side of the right expression pedal
Pen Drive Mass Storage	Ordinary USB pen drive can be used as mass storage
Sequencer Remote Control	Optional: radio remote control with built-in 2x16 display, non-directive, 50 mt distance
DISPLAY	128x64 dots graphic display with backlight
Edit Voice Parameters	Stop-by-stop adjustable voice parameters
Volumes	Divisional Volumes: separate for each division. Audio Rendering Volumes: separate for front height speakers (PRESENCE) and side speakers (SURROUND).
Tremulants	3, adjustable depth and speed for each manual
Reverberation	8 different types
Effects	Ensemble Effect: adjustable. Insufficient Air Pressure Effect: adjustable and proportional to the active voices. Tracker Action Effect: yes, selectable.
Historical Temperaments	Kirnberger II, Kirnberger III, Werckmeister III, Werckmeister IV, Werckmeister V, Vallotti, Silbermann, Kellner 1975, Meantone G#, Meantone A♭, Meantone pure minor third, Zarlino, Sauveur I, Sauveur II, Barca, Chaumont, Pythagorean. Programmable temperament transposition.
Short Octave	Yes, independently programmable for each keyboard and for the pedalboard
Keyboards Inversion	Yes, with completely customizable keyboard reassignment
Output Router	Stop-by-stop adjustable windchest layout
External Out Volume Control	Independent volume control for each channel
External Out Equalizer	Yes, independent 5-band graphic equalizer for each channel
Internal Amplification Equalizer	Yes, 5-band graphic equalizer
Midi Programmable	Tx/Rx Midi Channel, Tx/Rx Midi Filter, Send PG, Keyboard Midi Velocity
Sequencer	Interactive song sequencer with overdubbing function
File Management	Copy, Load, Save, Rename, Delete etc.
Lock Organ	With password
CONNECTIONS	
Midi In, Out, Thru	Yes
Stereo Headphone Out	Yes
Stereo Aux In	Yes
Mic In	Yes, with gain control
Multiple Line Out	4+1(Sub), 12+1(Sub) with optional output expansion board
USB (device) to PC (for "Physis Editor")	For finest voicing controls and full customization, like stop-by-stop and note-by-note Volume and Pitch regulation, stop disposition, Internal and External Routing, etc. (optional)
USB (host) for Pen Drive	Yes
CONSOLE	
Cabinet	Elegant console in dark, medium or light oak, with matching bench
Dimensions W x H x D and Weight	145.2 x 122.5 x 69 cm / 57.17" x 48.23" x 27.17" (without pedalboard) 145.2 x 122.5 x 113.5 cm / 57.17" x 48.23" x 44.69" (with pedalboard) 159 kg / 350 lbs

STOPLIST

PEDAL
Untersatz 32'
Principalbass 16'
Subbass 16'
Octavbass 8'
Gedacktbass 8'
Choralbass 4'
Mixtur IV
Contra Posaune 32'
Posaune 16'
Trompete 8'
Klarine 4'
Coupler I / P
Coupler II / P
Coupler III / P

MANUAL I
Rohrgedackt 8'
Quintadena 8'
Principal 4'
Gedacktflöte 4'
Octave 2'
Quinte 1 1/3'
Sesquialtera II
Scharff III
Dulzian 16'
Cromorne 8'
Vox Humana 8'
Tremulant
Coupler III / I

MANUAL II
Principal 16'
Principal 8'
Flûte Harmonique 8'
Rohrflöte 8'
Gemshorn 8'
Octave 4'
Blockflöte 4'
Quinte 2 2/3'
Superoctave 2'
Mixtur V
Cornett IV
Trompete 16'
Trompete 8'
Tremulant
Coupler I / II
Coupler III / II

MANUAL III
Bourdon 16'
Principal 8'
Gedackt 8'
Salicional 8'
Vox Celeste 8'
Octave 4'
Traversflöte 4'
Nasard 2 2/3'
Waldflöte 2'
Terz 1 3/5'
Plein Jeu IV
Fagott 16'
Trompette Harmonique 8'
Oboe 8'
Clairon 4'
Tremulant

ORCHESTRA
Pedal: Cello
Manual I: Harpsichord
Manual II: Harp
Manual III: Chimes