



SOUND GENERATION

Powered by Physis®

Sonus sets a new milestone in the reproduction of the classic organ sound as it effectively combines the unique RAR (Real Audio Rendering) and Physis® technologies, both developed by the Viscount Research & Development department. Physis® is a technology based on the creation of complex mathematical algorithms capable of simulating the physical and acoustical phenomena underlying the generation of sound in the pipe organ. It's a completely different approach from common digital sound sampling because every single note, every chord, every slightest nuance of the performance is not the result of a simple “playback” of a sound but it stems from a sound generation process which operates fluidly in real time, just as it occurs organically and naturally in a physical instrument. The modeling algorithms that make Physis® organs so unique is the result of a monumental amount of work that now allows the creation of innovative and versatile instruments, redefining the state of the art.



AMPLIFICATION

Amplification RAR (Real Audio Rendering)

Starting with Physis® sound generation technology, we have designed a revolutionary new audio system called RAR (Real Audio Rendering). The heart of the system is a powerful realtime sound processing algorithm that, in conjunction with four new additional audio channels located at specific points on the console, is able to recreate with great accuracy the acoustic field produced by a real pipe organ in a large reverberant space. Thanks to RAR technology, you can totally manage the impression of three-dimensional space in which the instrument sits all the way up to

a large cathedral setting. All this is possible without connecting any additional speakers. The versatility of Physis® technology, together with a painstaking study on the optimization of components, has allowed us to integrate the entire system inside the new organ consoles, in an extremely compact design.

In addition to the traditional amplification, we placed two pairs of full-range speakers at strategic points on the console: one pair on the outside panels and one pair on the top stop jamb panel. In this way, as the sound comes from different positions, it is possible to simulate the multiple reflections of the walls, ceiling and floor of a large reverberant space. The effect is quite startling. You will experience a difference just as significant as that achieved when you add a surround sound system to your home television.



KEYBOARD

“Tracker Touch” style keyboard

Knowing the importance of the classic-organ keyboard, we’ve taken the utmost care in selecting the absolute best components. The mechanics of the keys gives the impression of a true “Tracker Action”, by obtaining the speed of actuation of the keys – making it possible to feel the “Tracker Touch” effect. i.e. the correlation between the “touch” of the organist and the transient attack of each virtual pipe. The keyboard is not only comfortable and consistent to play, but also dynamically sensitive, which is useful for the MIDI and Orchestral sounds – but also essential to provide the “Tracker Touch” effect.



CONNECTIONS

Complete Connections

A complete selection of external connections is smartly situated.

In addition to Standard connections (MIDI In, Out, Thru; Headphones, stereo inputs), there's a microphone with gain control, 4 external multiple outs + Sub – with the option to expand these to 12+1(Sub). There are also USB host and Device connections.

For the USB Host connection, it's possible to use a thumb drive to save and upload sound settings.

For the USB Device connection, you can connect to a PC to personalize all aspects of the organ. With the Optional “Physis Editor” for PC, you can modify every single register for every single note – including volume, pitch, spacial disposition – and many other parameters.



IINTERFACE

The buttons and tabs to turn registers on and off, the pistons and all the other commands are ergonomically designed to respond quickly and easily to the demands of the user. The display is conveniently located on the side panel with it's own set of designated controls. The layout is smartly integrated with the instrument to allow unlimited possibility and personalization at the user's fingertips.



PEDALS

3 Pedals

The 3 pedals provide a fluid and precise movement – allowing complete control of the volume for Manual II, the volume for Manual I – as well as the Crescendo.