viscount®

For hundreds of years the classic organ has offered power, majesty and creativity to the musician that commands all the sounds possible through its configuration. It transforms the performer's inner feelings and the composer's intentions into an experience of magnificent proportion to the listener. Viscount now makes it possible for organists throughout the world to experience the thrill that here-to-fore could only be experienced by those musicians and listeners fortunate enough to play on, and listeners to hear in person, organs in the finest cathedrals and venues around the world.

Physis technology, through its Unico instruments, can now perfectly reproduce the sound, ambience, and configuration of any organ found in famous venues around the world.
Physis technology, using an advanced multi-processor platform, allows an unprecedented huge calculation power. The DSP array architecture is based on the floating-point state of the art, third generation of SHARC® Processors by Analog Devices. Each of them is capable of 2.4 GFLOPS peak performance. Physis, with up to 8 SHARC® Processors, can send and process in excess of 12 Billion instructions per second (sustained rate), thus providing the power to accomplish what digital sampling cannot.

It is difficult to separate the natural sound an organ produces from its interaction with its surrounding architecture. Each has an effect on the other.

Space and volume are the main architectural contributors effecting sound, especially when the sound is produced by something as unique as a windblown pipe. Each hand-made pipe, with its own height, thickness, design and imperfections, speaks differently into its environment.

UNICO φ

φ Physis

viscount®

Physis physically models the sound by measuring an organ's natural and physical attributes, as well as its interaction with its environment. Then Physis rebuilds that sound through modeling technology, not storing samples like older technologies, but rebuilding all the details through complex algorithms, down to the smallest imperfections - those elements that give the original instrument its character and warmth. Physis creates its sound so that it is ever changing, like the organ used for the model; however it can be adjusted to accommodate the desires of the most demanding organist, or acoustically deprived environment.

Today, with the introduction of Physis Technology, Viscount has succeeded in reproducing sound waves just as they would emanate from a windblown pipe organ-each with its own autonomy, individuality and unique characteristics. Viscount's Unico instrument, using Physis, produces a reproduction of each note's sound wave just as it sounded in the original organ. Since there are no "breaks" or "split-points", as found in sampling technologies, the progression of sound across the keyboard is accurate, smooth and natural.

However, the shapes of Physis sound waves are open, thus, making it is possible to edit, modify and extend their structure. They produce a tri-dimensional sound. Physis speaks, not just with "Left-to-Right" motion, as currently done with older technologies, but also with "Front-to-Back" and "Up and Down" motion as they do in real windblown pipes.

WWW.PHYSISORGANS.COM

Technology

The electronic organ,as with all sophisticated electronic devices, comes from an information technology environment.

The electronic organ, as with all sophistycated electronic devices, comes from an information technology environment. For this reason, in the Unico series we adopted Linux , a unix-like and open source operating system, developed for personal computers. Linux is totally transparent to the organist, who'll continue to use his instrument like he does today, but with a lot of benefits in terms of connectivity and integration with the personal computers world. Linux supports, for example, the whole USB world (both as master or device), ethernet connection, IP protocol (Internet) and many other protocols and hardware peripherals.

unico500

unico500 with its three manuals ,56 voices, drawsrops arrangements and luxury cabinet, offers the perfect environment to experience the amazing capabilities of Physis.

Man I	Man II	Man III	Pedal
Prinzipal 8'	Prinzipal 16'	Bourdon 16'	Untersatz 32'
Flöte 8'	Prinzipal 8'	Geigen Prinzipal 8'	Prinzipalbass 16'
Prestant 4'	Hohlflöte 8'	Rohrgedackt 8'	Subbass 16'
Offenflöte 4'	Gedackt 8'	Viola di Gamba 8'	Gedackt 16'
Doublette 2'	Gamba 8'	Vox Celeste 8'	Oktavbass 8'
Larigot 1 1/3'	Unda Maris 8'	Oktave 4'	Gedackt 8'
Sifflöte 1'	Oktave 4'	Gemshorn 4'	Choralbass 4'
Sesquialtera II	Spitzflöte 4'	Rohrflöte 4'	Mixtur IV
Mixtur IV	Quinte 2 2/3'	Nasard 2 2/3'	Contra Bombarde 32'
Regal 16'	Superoktave 2'	Blockflöte 2'	Posaune 16'
Spanische Trompete 8'	Kornett IV	Terz 1 3/5'	Trompete 8'
Krummhorn 8'	Mixtur V	Scharf III	Schalmei 4'
Tremulant	Contra Trompete 16'	Fagott 16'	Coupler II/P
Coupler III/I	Trompete 8'	Trompete 8'	Coupler III/P
	Klarine 4'	Oboe 8'	Coupler I/P
	Tremulant	Vox Humana 8'	
	Coupler III/II	Clairon 4'	
	Coupler I/II	Tremulant	

Keyboards	3 x 61 notes “tracker touch” keyboards, with velocity control for MIDI and Orchestra sections. Optional with wooden keys
Pedalboard	32 notes straight, straight concave, radiating concave
Stop Type	Wooden Drawknob
Audio Amplifiers	6 x 60 Watt + 1 x 100 Watt, 7 channels internal amplification system
Speakers	13
Expression Pedals	2 Wooden Pedal
Crescendo Pedal	Wooden Pedal 16 step programmable

STOPS and VOICES

Pedal	12
Man I	12
Man II	15
Man III	17
Total Speaking Stops	56 + 7 Orch. Hundreds voices in the internal sound bank
Sound Styles	4 Preset + 4 User. Hundreds Sound Styles can be loaded and/or stored from/to internal memory and Pen Drive
Alternative Voices	Selectable additional sound for each Stop
Orchestra Voices	Selectable additional sound for each Stop

ACCESSORIES

General Pistons	10
Divisional Pistons	6
Memory Bank	16
Memory Segments	6 (A,B,C,D,E,F)
Total Memories	960 General, 3840 Divisional, tens of thousands with Pen Drive
Piston Sequencer	Prev - Next Pistons and Toe Studs
Return to Handset Registration	Individual HR for General and Divisional Pistons
Toe Studs	22
Console On - Ext. Out Speakers On	Can be programmed as Main Out On and Antiphonal On
Reed Cancel - Mixture Cancel	Yes
Automatic Pedal	Yes
Enclosed piston	Yes
Couplers	6 With Stops, Pistons and Toe Studs
Transposer	-6/+5
General Volume - Reverb Volume	With Rotary Potentiometers
Divisional Midi Enable	Yes
Organ Solo Piston	Solo Coupler
Midi Solo Piston	Solo on Midi Out
Orchestra and Midi Sustain	With Expression Pedal Switch
Pen Drive Mass Storage	Usual Usb Pen Drive can be used as Mass Storage
Key ON/OFF Power Switch	Yes
Sequencer Remote Control	Optional Radio no directive 50 mt distance Remote Control with built in 2x16 display

DISPLAY

	128 x 64 dots Graphic with Backlight
Edit Voice Parameters	Stop by stop adjustable voice parameters
Divisional Volume	Separate for each Division
Tremulant	3 Separately for each manuals Depth and Speed adjustable
Reverberation	8 Types
Ensemble Effect	Adjustable
Air Pressure Effect	Proportional to the active Voices
Tracker Keyboard Effect	Yes
Historic Temperaments	Kirnberger II, Kirnberger III, Werckmeister III, Werckmeister IV, Werckmeister V, Vallotti, Silbermann I, Silbermann II, Kellner 1975, Meantone, Meantone pure minor third, Zarlino, Sauveur I, Sauveur II, Barca, Rameau, Pythagorean; each with programmable “Tonic” Key Note
Choir/Great Keyboards Inversion	Yes
Piston Combine	Great/Pedal Divisional Piston Combine
Output Router	Stop by stop adjustable Windchest layout
External Out Volume Control	13 (21) indipendent out volume control
External Out 5 Band Equalizer	13 (21) indipendent out 5 Band Equalizer
Internal Ampl. 5 Band Equalizer	Yes
Midi Programmable	Tx/Rx Midi Ch., Tx/Rx Midi Filter, Send PG, Keyb. Midi Velocity: progammables
Sequencer	Interactive Song Sequencer with Overdubbing function
Demo Songs	Yes
File Management	Copy, Load, Save, Rename, Delete etc. under Linux Operating System
Lock Organ	With Password

CONNECTIONS

Midi In, Out, Thru	Yes
Stereo Headphone Out	Yes
Stereo Aux In	Yes
Mic In	With Gain Control
Multiple Line Out	13, 21 with Output Expansion Board
USB to PC (For Viscount Organ Editor)	For finest finishing and personalization like Stop by Stop, Note by Note Volume and Pitch Regulation, Stop disposition, Internal and External Routing, etc.
USB for Pen Drive	Yes

CONSOLE

Width x Height x Depth with Pedalb.	cm 178x131.5x117
Width x Height x Depth without Pedalb.	cm 178x131.5x78
Description	Elegant Wooden Console Moldings, Elegant Wooden Lighted Music Rack, Wooden Roll Top with Key-Lock, Bench with Music Storage Shelf
Weight	Kg. 292

unico400
quattrocento

unico400 with its 3 manuals, 56 voices, tilt -tab stop arrangement and the same Unico 500 stop library, provides everything conveniently at your fingeritps to experience the power of Physis's modeling technology.

Man I
Prinzipal 8'
Flöte 8'
Prestant 4'
Offenflöte 4'
Doublette 2'
Larigot 1 1/3'
Sifflöte 1'
Sesquialtera II
Mixtur IV
Regal 16'
Spanische Trompete 8'
Krummhorn 8'
Tremulant
Coupler III/I

Man II
Prinzipal 16'
Prinzipal 8'
Hohlflöte 8'
Gedackt 8'
Gamba 8'
Unda Maris 8'
Oktave 4'
Spitzflöte 4'
Quinte 2 2/3'
Superoktave 2'
Kornett IV
Mixtur V
Contra Trompete 16'
Trompete 8'
Klarine 4'
Tremulant
Coupler III/II
Coupler I/II

Man III
Bourdon 16'
Geigen Prinzipal 8'
Rohrgedackt 8'
Viola di Gamba 8'
Vox Celeste 8'
Oktave 4'
Gemshorn 4'
Rohrflöte 4'
Nasard 2 2/3'
Blockflöte 2'
Terz 1 3/5'
Scharf III
Fagott 16'
Trompete 8'
Oboe 8'
Vox Humana 8'
Clairon 4'
Tremulant

Pedal
Untersatz 32'
Prinzipalbass 16'
Subbass 16'
Gedackt 16'
Oktavbass 8'
Gedackt 8'
Choralbass 4'
Mixtur IV
Contra Bombarde 32'
Posaune 16'
Trompete 8'
Schalmei 4'
Coupler II/P
Coupler III/P
Coupler I/P

Keyboards	3 x 61 notes “tracker touch” keyboards, with velocity control for MIDI and Orchestra sections. Optional with wooden keys
Pedalboard	32 notes straight, straight concave, radiating concave
Stop Type	Tilt Tab
Audio Amplifiers	4 x 60 Watt + 1 x 100 Watt, 5 channels internal amplification system
Speakers	9
Expression Pedals	2 Wooden Pedal
Crescendo Pedal	Wooden Pedal 16 step programmable

STOPS and VOICES

Pedal	12
Man I	12
Man II	15
Man III	17
Total Speaking Stops	56 + 7 Orch. Hundreds voices in the internal sound bank
Sound Styles	4 Preset + 4 User. Hundreds Sound Styles can be loaded and/or stored from/to internal memory and Pen Drive
Alternative Voices	Selectable additional sound for each Stop
Orchestra Voices	Selectable additional sound for each Stop

ACCESSORIES

General Pistons	10
Divisional Pistons	6
Memory Bank	16
Memory Segments	6 (A,B,C,D,E,F)
Total Memories	960 General, 3840 Divisional, tens of thousands with Pen Drive
Piston Sequencer	Prev - Next Pistons and Toe Studs
Return to Handset Registration	Individual HR for General and Divisional Pistons
Toe Studs	22
Console On - Ext. Out Speakers On	Can be programmed as Main Out On and Antiphonal On
Reed Cancel - Mixture Cancel	Yes
Automatic Pedal	Yes
Enclosed piston	Yes
Couplers	6 With Stops, Pistons and Toe Studs
Transposer	-6/+5
General Volume - Reverb Volume	With Rotary Potentiometers
Divisional Midi Enable	Yes
Organ Solo Piston	Solo Coupler
Midi Solo Piston	Solo on Midi Out
Orchestra and Midi Sustain	With Expression Pedal Switch
Pen Drive Mass Storage	Usual Usb Pen Drive can be used as Mass Storage
Key ON/OFF Power Switch	Yes
Sequencer Remote Control	Optional Radio no directive 50 mt distance Remote Control with built in 2x16 display

DISPLAY

	128 x 64 dots Graphic with Backlight
Edit Voice Parameters	Stop by stop adjustable voice parameters
Divisional Volume	Separate for each Division
Tremulant	3 Separately for each manuals Depth and Speed adjustable
Reverberation	8 Types
Ensemble Effect	Adjustable
Air Pressure Effect	Proportional to the active Voices
Tracker Keyboard Effect	Yes
Historic Temperaments	Kirnberger II, Kirnberger III, Werckmeister III, Werckmeister IV, Werckmeister V, Vallotti, Silbermann I, Silbermann II, Kellner 1975, Meantone, Meantone pure minor third, Zarlino, Sauveur I, Sauveur II, Barca, Rameau, Pythagorean; each with programmable “Tonic” Key Note
Choir/Great Keyboards Inversion	Yes
Piston Combine	Great/Pedal Divisional Piston Combine
Output Router	Stop by stop adjustable Windchest layout
External Out Volume Control	13 (21) indipendent out volume control
External Out 5 Band Equalizer	13 (21) indipendent out 5 Band Equalizer
Internal Ampl. 5 Band Equalizer	Yes
Midi Programmable	Tx/Rx Midi Ch., Tx/Rx Midi Filter, Send PG, Keyb. Midi Velocity: progammables
Sequencer	Interactive Song Sequencer with Overdubbing function
Demo Songs	Yes
File Management	Copy, Load, Save, Rename, Delete etc. under Linux Operating System
Lock Organ	With Password

CONNECTIONS

Midi In, Out, Thru	Yes
Stereo Headphone Out	Yes
Stereo Aux In	Yes
Mic In	With Gain Control
Multiple Line Out	13, 21 with Output Expansion Board
USB to PC (For Viscount Organ Editor)	For finest finishing and personalization like Stop by Stop, Note by Note Volume and Pitch Regulation, Stop disposition, Internal and External Routing, etc.
USB for Pen Drive	Yes

CONSOLE

Width x Height x Depth with Pedalb.	cm 162x127x111
Width x Height x Depth without Pedalb.	cm 162x127x69.5
Description	Elegant Wooden Console Moldings, Elegant Wooden Lighted Music Rack, Wooden Roll Top with Key-Lock, Bench with Music Storage Shelf
Weight	Kg. 195

unico300

unico300

A distinctive 2 manuals with a 32 note Ago pedalboard, with 47 tilt-tabstops, USB connection and all the features provided by the Unico line.

Man I
Prinzipal 16’
Prinzipal 8’
Hohlflöte 8’
Gedackt 8’
Gamba 8’
Unda Maris 8’
Oktave 4’
Spitzflöte 4’
Quinte 2 2/3’
Superoktave 2’
Kornett IV
Mixtur V
Contra Trompete 16’
Trompete 8’
Krummhorn 8’
Klarine 4’
Tremulant
Coupler I/II

Man II
Bourdon 16’
Geigen Prinzipal 8’
Rohrgedackt 8’
Viola di Gamba 8’
Vox Celeste 8’
Oktave 4’
Gemshorn 4’
Rohrflöte 4’
Nasard 2 2/3’
Blockflöte 2’
Terz 1 3/5’
Scharf III
Fagott 16’
Trompete 8’
Oboe 8’
Vox Humana 8’
Clairon 4’
Tremulant

Pedal
Untersatz 32’
Prinzipalbass 16’
Subbass 16’
Gedackt 16’
Violone 16’
Oktavbass 8’
Gedackt 8’
Choralbass 4’
Flöte 4’
Mixtur IV
Contra Bombarde 32’
Posaune 16’
Trompete 8’
Schalmei 4’
Coupler II/P
Coupler I/P

Keyboards	2 x 61 notes “tracker touch” keyboards, with velocity control for MIDI and Orchestra sections. Optional with wooden keys
Pedalboard	32 notes straight, straight concave, radiating concave
Stop Type	Tilt Tab
Audio Amplifiers	4 x 60 Watt + 1 x 100 Watt, 4 channels internal amplification system
Speakers	9
Expression Pedals	1 Wooden Pedal
Crescendo Pedal	Wooden Pedal 16 step programmable

STOPS and VOICES

Pedal	14
Man I	16
Man II	17
Total Speaking Stops	47 + 5 Orch. Hundreds voices in the internal sound bank
Sound Styles	4 Preset + 4 User. Hundreds Sound Styles can be loaded and/or stored from/to internal memory and Pen Drive
Alternative Voices	Selectable additional sound for each Stop
Orchestra Voices	Selectable additional sound for each Stop

ACCESSORIES

General Pistons	6
Divisional Pistons	6
Memory Bank	16
Memory Segments	6 (A,B,C,D,E,F)
Total Memories	576 General, 1728 Divisional, tens of thousands with Pen Drive
Piston Sequencer	Prev - Next Pistons
Return to Handset Registration	Individual HR for General and Divisional Pistons
Toe Studs	7
Console On - Ext. Out Speakers On	Can be programmed as Main Out On and Antiphonal On
Reed Cancel - Mixture Cancel	Yes
Automatic Pedal	Yes
Enclosed piston	Yes
Couplers	3 With Stops, Pistons and Toe Studs
Transposer	-6/+5
General Volume - Reverb Volume	With Rotary Potentiometers
Divisional Midi Enable	Yes
Organ Solo Piston	Solo Coupler
Midi Solo Piston	Solo on Midi Out
Orchestra and Midi Sustain	With Expression Pedal Switch
Pen Drive Mass Storage	Usual Usb Pen Drive can be used as Mass Storage
Key ON/OFF Power Switch	Yes
Sequencer Remote Control	Optional Radio no directive 50 mt distance Remote Control with built in 2x16 display

DISPLAY

	128 x 64 dots Graphic with Backlight
Edit Voice Parameters	Stop by stop adjustable voice parameters
Divisional Volume	Separate for each Division
Tremulant	2 Separately for each manuals Depth and Speed adjustable
Reverberation	8 Types
Ensemble Effect	Adjustable
Air Pressure Effect	Proportional to the active Voices
Tracker Keyboard Effect	Yes
Historic Temperaments	Kirnberger II, Kirnberger III, Werckmeister III, Werckmeister IV, Werckmeister V, Vallotti, Silbermann I, Silbermann II, Kellner 1975, Meantone, Meantone pure minor third, Zarlino, Sauveur I, Sauveur II, Barca, Rameau, Pythagorean; each with programmable “Tonic” Key Note
Great/Swell Keyboards Inversion	Yes
Piston Combine	Great/Pedal Divisional Piston Combine
Output Router	Stop by stop adjustable Windchest layout
External Out Volume Control	5 (13) indipendent out volume control
External Out 5 Band Equalizer	5 (13) indipendent out 5 Band Equalizer
Internal Ampl. 5 Band Equalizer	Yes
Midi Programmable	Tx/Rx Midi Ch., Tx/Rx Midi Filter, Send PG, Keyb. Midi Velocity: programmables
Sequencer	Interactive Song Sequencer with Overdubbing function
Demo Songs	Yes
File Management	Copy, Load, Save, Rename, Delete etc. under Linux Operating System
Lock Organ	With Password

CONNECTIONS

Midi In, Out, Thru	Yes
Stereo Headphone Out	Yes
Stereo Aux In	Yes
Mic In	With Gain Control
Multiple Line Out	5, 13 with Output Expansion Board
USB to PC (For Viscount Organ Editor)	For finest finishing and personalization like Stop by Stop, Note by Note Volume and Pitch Regulation, Stop disposition, Internal and External Routing, etc.
USB for Pen Drive	Yes

CONSOLE

Width x Height x Depth with Pedalb.	cm 162x127x111
Width x Height x Depth without Pedalb.	cm 162x127x69.5
Description	Elegant Wooden Console Moldings, Elegant Wooden Lighted Music Rack, Wooden Roll Top with Key-Lock, Bench with Music Storage Shelf
Weight	Kg. 185

Beauty and craftmade skill

We have over a century of experience manufacturing keyboard instruments and were the first company to combine elegant furniture- style cabinets with innovative physical modeling technology .

The Italian styling tradition that is evident in Art, Architecture and Music- can be found in our hand crafted instruments. An Italian passion for design and aesthetic that helps our instruments maintain,and increase their value over time.

iabadabadu.it

viscount®

VISCOUNT INTERNATIONAL S.p.A.
Via Borgo 68 / 70 - 47836 Mondaino (RN) - Italy
Tel. + 39 0541 981700 - Fax +39 0541 981052
www.viscount-organs.com E-mail: organs@viscount.it
www.physisorgans.com