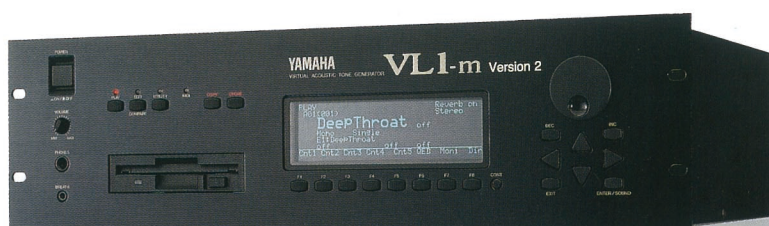


YAMAHA

VL Series VIRTUAL ACOUSTIC SYNTHESIZER VIRTUAL ACOUSTIC TONE GENERATOR

Version 2



VL Series Version 2

The world's most controllable synthesizer just became more powerful!

With the VL1, Yamaha introduced the ultimate in creativity for synthesizers- creativity not just in the range of sounds produced and the sounds themselves, but also creativity in the performance - in the control and flexibility available to you, the player. A synthesizer which responds to the nuances of your playing style. Now Yamaha has taken this a stage further with the Version 2 synthesizers in the VL series, incorporating the same world-beating technology as the original VL series, and adding even more sonic quality and control, together with new features to make it easier for you to play, allowing you to create super-realistic performances on stage or in the studio.

Breathtaking quality from the improved VA software

The Version 2 software contains over twenty enhancements to the original VA Synthesis algorithm, including extension of the algorithm itself, improved resolution, accuracy and added breakpoint parameters). We've added more built-in digital effects, including Phaser, Distortion+Flanger, Distortion+Wah etc. All of these are of the same professional state-of-the-art quality that you would expect from Yamaha effects. Yamaha has improved and refined all the preset voices taking full advantage of the new algorithm and the new effects to produce the highest-quality sounds. The power and quality of the new improved VA software will take your breath away.

Improved control from your playing style...

When playing the VL Series Version 2, the use of a breath controller and a foot pedal is an extremely powerful factor, allowing natural phrasing on wind instruments, and even on bowed instruments.

As with previous models, optimal performances on the VL Series Version 2 are realized with a Breath Controller such as Yamaha's BC 2. However, there are times when it is inconvenient to use a breath controller, and so we provide the ability to read Breath Control data from the Key On velocity or aftertouch (keyboard pressure).

Naturally, there are settings which allow you to play a Version 2 synthesizer without a breath controller (as with the original VL series), using foot controllers or controller wheels to achieve similar effects to those obtained with a breath controller.

Playing a keyboard instrument without a keyboard?

That's right! Since these synthesizers are exceedingly good at reproducing wind sounds (brass and reed), it sometimes makes sense to play them through a MIDI wind controller, allowing you to play these voices with maximum expressiveness. The Yamaha WX wind controllers are ideally suited for playing with the VL Series Version 2 and so we've added a WX Lip setting to the VL1 and VL7 synthesizers, similar to the mode already provided on the VL1-m, allowing to match your WX playing style perfectly with the sound generators of the synthesizer.

Of course, none of this detracts from the superb keyboard feel of the keyboard models. In fact, we think these have such playable keyboards, and so many ways to control them (even more aftertouch and breath curves and a fixed velocity mode have been added) that you can use them as the heart of your MIDI setup.

Multi-timbral VA synthesis

The Version 2 software features the ability to play the synthesizers (VL1 and VL1-m) with more than one



Tom Scott



Freddie Ravel (left)
of Earth, Wind & Fire

Artists currently using VA technology

Alan Pasqua
Chester Thompson
Duran Duran
George Duke
Howard Jones
Philippe Saisse
Ronnie Foster

...



Chick Corea



David Bryan of BON JOVI



voice simultaneously - either from other MIDI controllers in multi-timbral mode, or from the keyboard, in one of two split modes. In static split mode, the split point between the two voices is fixed to a point you decide, but in dynamic split mode, the split point is intelligently decided by the software as you play. A multi-timbral facility allows different voices to be controlled from different MIDI channels.

A musician's tool

We believe that the VL Series Version 2 software presents musicians with the most complete and flexible synthesis system available to date. With the high degree of flexibility over the design of the sounds, and the incredible degree of real-time control over the sounds as you play them, your performance on the VL Series Version 2 synthesizers will sound unique. It's a way to express your own musicianship in a way which equals (and surpasses in some cases) the methods only available to acoustic instrument players in the past.

Whether your needs are for on-stage performance, or studio recording, for the reproduction of "real" instruments, or for the creation of your own, "custom" instruments, playing with a keyboard or a wind controller, the VL synthesizers with the Version 2 software will give you a versatility and flexibility that has been almost unimaginable to previous generations.

Compatibility with the original VL series

Of course, all synthesizers in the VL Series Version 2 range can read (from diskette) voices from the original VL series of synthesizers and convert them automatically to the new formats. These will be reproduced on the Version 2 synthesizers as fully and completely as on the original VL series.

Once converted, you are free to modify them with the new parameters and effects, to make these your own personal sounds for your future musical needs.

Virtual Acoustic Synthesis

Yamaha's Virtual Acoustic Synthesis creates a computer physical model of an actual instrument inside the synthesizer.

The S/VA synthesis algorithm creates an instrument by combining a driver block and a pipe/string block.

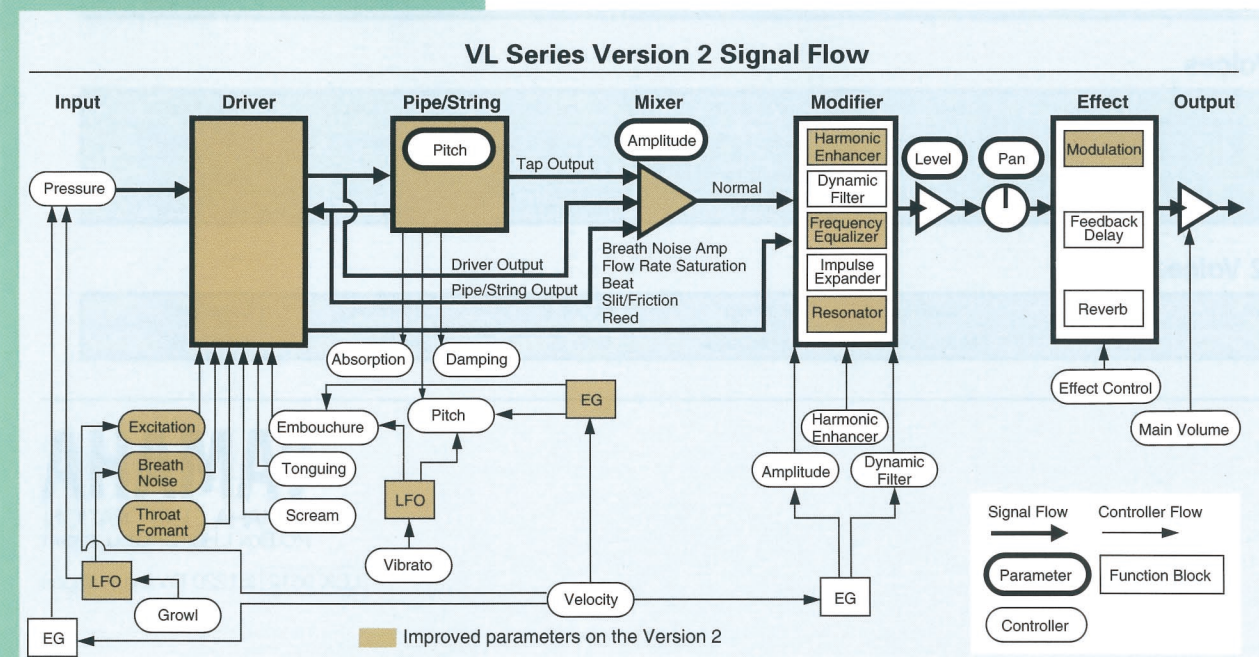
The driver block is a software model of an energy-input component such as mouthpiece, reed, or bow,

while the pipe/string ("P/S") block is a model of the energy-carrying component.

The sound of the instrument is then passed through modifiers before being passed to the internal effects.

Both the instrument sound and the modifier parameters can be controlled by the Controller section. In practical terms, this gives

an unbelievably high degree of expressiveness in every aspect of the timbre: pitch changes from the pitch-bend controller, vibrato, articulation of notes controlled by "mouth pressure" or "bow speed". The VA synthesis method even reproduces the transitions between notes accurately, which are as much a part of the music as the notes themselves.



Voice List

VL1/VL1-m Version 2 Voices

Vintage VL	Brassyn	Ossyncro	SynthSplit	AnorakSyn	Funny Cat	AirSqueezer	Afterwork
Jazz Sax	Tenor Sub	SopranoSax	BaritonSax	Bell Miked	Old Tenor	Nat Tenor	Alto Sax
AnaBottle	SaxyTrump	FlutoPhone	RoundBreth	Teped Jet	SteamLead	Sarangi	Tenor Air
JazzTrumpet	Trumpet	FlugelHorn	JazzBone	MelTrump	Horn	Cornet	Lite Tuba
Stick	FingerBass	Fretless	Tube Bass	Birdland	ThumBass	Square	Brite Bass
Violin	Cello	JetLipBow	Viol Outt	DoubleBow	Viowind	Nu Viola	Lite Cello
Wet Mini	Soft Mini	OldMini	Mr. Mogue	Igneous	50 / 50	MoreGrunge	FunkyLead
Pastorale	Thai Reed	Japanesque	Bagpipes	Solitude	Digeritek	Aerophone	Syraphone
Warm Dist	GuitarHero	JazzGuitar	Cruncher	IndoPluck	Sitar	Spanish	AsianPlck
Super Jam	DynaTp&Sx	40'sSaxes	Mrs.Yang	Elec Lips	The Cool	Flute&Baso	BaroqueDuet
Shakuhachi	C Flute	Tull Flute	Piccolo	Pan Pipes	BassFlute	Floboe	GrassHarp
DeepThroat	Moby	Mad Tube	No Harm AT	PlastiSax	BuzzSax	PlastoReed	CombMute
XtraX	MechaHorse	HydroStorm	Crystal	Black Hole	Freezing	Mu	Haze
EnglishHrn	Oboe	Jazz Clari	Clarinet	BassClari	Dubble	DarkBassoon	AltoRecrdr
MuteCone	Mute Boyz	Croma Harp	Blues Harp	Lead Bow	BowByBlow	Faerie Bow	Bowed Saw
Acid Bass	Wah Man	JungleBass	PowerBass	Sub Bass	Outback	Yamasteel	Waterphone

VL1/VL1-m Version 2 WX Voice

Hey! Kenny	GlassAlto	C Trumpet	GuitarHero	MildAltSax	Blues Harp	WX Trumpet	JazzGuitar
AcoEkoSyn	C Flute 2	Shakuhachi	LonelyPhone	JazzBone	PanPicol	Andean	DoubleBow
BrassSectn	WXTenorSax	WX Bariton	MoreGrunge	BrightTenr	OldMini	Air Saxes	Nz Piccolo
MutedLipWX	WahUpHarp	AnaEkoSyn	Horn 2	Clarinet 2	HarpSoprn	Marsaloboe	LM AltoSax

VL7 Version 2 Voices

Brassyn	Warm Dist	AnorakSyn	GuitarHero	Ossyncro	JazzGuitar	AirSqueezer	Cruncher
Jazz Sax	IndoPluck	Tenor Sub	Spanish	SopranoSax	Sitar	BaritonSax	AsianPlck
AnaBottle	Shakuhachi	SaxyTrump	C Flute	FlutoPhone	Pan Pipes	Aerophone	Piccolo
JazzTrumpet	DeepThroat	Trumpet	Moby	FlugelHorn	Mad Tube	JazzBone	No Harm AT
Stick	Freezing	FingerBass	MechaHorse	Fretless	Mu	Tube Bass	Crystal
Violin	EnglishHrn	Cello	Oboe	JetLipBow	Jazz Clari	Viol Outt	Clarinet
Wet Mini	MuteCone	Soft Mini	Cornet 2	Solitude	Croma Harp	Mr. Mogue	Blues Harp
Pastorale	Acid Bass	Thai Reed	Wah Man	Floboe	Dubble	Old Tenor	Waterphone

VL7 Version 2 WX Voices

Hey! Kenny	GlassAlto	C Trumpet	GuitarHero	MildAltSax	Blues Harp	WX Trumpet	Alto Oboe
AcoEkoSyn	C Flute 2	Shakuhachi	LonelyPhon	JazzBone	Ocarina	Andean	DoubleBow
PanPicol	Bassoon 2	WX Bariton	Ophelia	BrightTenr	Oboe 2	Air Saxes	Nz Piccolo
MutedLipWX	BreathBow	AnaEkoSyn	Horn 2	Clarinet	HarpSoprn	Marsaloboe	LM AltoSax

Additional Version 2 Voices

GlassTenor	FunkyTenor	HarpAlto	SharpTrmp	Lite Horn	Floboe 2	JetLipBow2	CelleSynth
Old Tenor2	Nat Alto	HarpSoprn	MuteLipJaz	DubleDuble	Cello 2	LiteViolin	WahGtr BC

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