Eowave Domino is a discrete analogue synthesizer with a VCO in the tradition of MS20 and TB303. VCO, filter & VCA are transistor made.

Its transistor architecture gives the Domino a unique raw sound. Rich and raw at the same time, no need of external effects to give life to the sound. Easy to use. Direct access to all parameters. Small size and metal enclosure. Uncompromised sounds can be obtained by mixing the

The 8 LFO variable types offer infinite modulation possibilities. Extra additional features including a 8 steps sequencer, an arpeggiator, glide

and accent recognition widen the field of sound possibilities. Provided with MIDI In, audio In and Out. Well, no winner, no looser, the only rule of the game is to make cool sounds and have fun!

Connections 4

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1/ Connect the power supply AC 12 V to the powerplug input. The LFO LED will light up and blink.

2/ Connect the Domino audio out to your sound system (jack 6,35 mm - 1/4'').

3/ To use the Domino like an effect processor, connect the audio in to an external sound source like another synth. it will disconnect the internal VCO

4/ Connect the MIDI in to the MIDI out of your MIDI keyboard or to a MIDI sequencer.

The VCO is the Voltage Controlled Oscillator, which creates continuous waveforms from saw to square. The VCO is the sound source of the



Mix: There are 2 types of waveforms from the VCO (saw and square). They can be mixed to go continuously from saw to square. The level is a bit lower on mid position for a cleaner sound.

The VCO likes it hot !!! Allow 1/2 hour pre-heating before the final tuning. In the first hour, the tune will be going a couple of herz lower.

Lfo mod is the LFO modulation amount of the LFO on the pitch. Pwm is the Pulse Width modulation amount of the LFO on the pwm.

In the need for transposition

To transpose the sound more than 7 semitones, use the transpose . •••• function of your keyboard, the internal MIDI to CV converter range from MIDI note 12 to 108, which represents 8 octaves.

LFo section (depth + speed) >> LFO = Low Frequency Oscillator This LFO generates 8 different waveforms. Its speed range is from 0 to 20 Hz. It allows to modulate the VCO, the PW and the filter cutoff frequency. Play with the corresponding amount modulation knob to modulate the sound. When you apply a MIDI clock signal to the MIDI in port, the LFO is synced to the midi clock signal. Unplug & replug the unit to reset to default settings. In MIDI sync mode there are 16 different speeds available from 8 (4/4) mesures to 1/32 notes. (see the MIDI Clock Time table on the back) Λ = Triangle, Λ = saw, N = inverse saw, T_{L} = square, R = random, N = noise, P_{T} = staircase, W = modwheel In the 8th position the LFO is replaced by the modwheel of your keyboard Turn the LFO into a 8 steps sequencer!!!! On LFO modwheel position, the LFO turns into a 8 steps sequencer! In this position, CC 9-16 modulate the intensity of each step. Plug a control surface to the Domino LFO RESET MIDI IN and try this!

 $\left| \vdots \right|$ CC20 resets the LFO at each new note that is played.

COUNTR

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.:.:DOMINO.::: Rules of the game Definition: What is a low-pass filter? Filters boost and attenuate regions of a sound

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LFO

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TL R



PARMOD Rd





See schematics a & b.

VCA

111/1/

env

gate

The envelope LED in the VCA section shows the envelope activity. When the switch is up, the VCA is controlled by the envelope.

spectrum. They have two essential parameters :

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cutoff and resonance. A low-pass filter will let all

low frequencies go thru up to the cutoff frequency.

When the low-pass filter opens, all frequencies go

thru. When it closes, only low frequencies go thru.

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ENV = Envelope

The envelope generator generates the control voltage applied to the VCF and the VCA, thereby controlling the volume and the tone color of each note. This output voltage is generated when you press a key. The analogue envelope range is from 1ms to 10s with attack, decay/release, sustain.

Attack

The attack knob sets the time required for the voltage to reach it's maximum from the moment the key is pressed down.

Decay/Release

The decay knob determines the time required for the voltage to drop from the maximum to the sustain level. When the sustain level is high, the envelope curve does not change by adjusting the decay time. Note that the decay also affects the time of release of the envelope.

Sustain

The sustain knob determines the sustain level to which the voltage falls at the end of the decay time. The sustain is maintained during the gate time.

Multiple Trigger Mode

CC21 activates the Multiple Trigger Mode. In this mode, the envelope is retriggered at each new note that is played.

Per default, the Domino is set on Single Trigger Mode.

Ifo mod

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VCA = Voltage Controlled Amplifier The VCA controls the volume (amplitude) of the sound and is controlled by the output voltage from the envelope generator.

env/gate switch

1-09

CC5 and CC6.

VCF = Voltage Controlled Filter The DOMINO VCF is a 24dB resonant low-pass filter. Cutoff

The cutoff knob determines the cutoff frequency of the VCF. In its highiest position (10), the sound will pass unchanged. As you lower the knob, the frequencies in the higher pitch range will be cut, fading the sound out in its lowest position (0). Resonance

The resonance knob will emphasize the frequency at the point set with the cutoff. As you raise the knob, certain harmonics are boosted and the sound will be more unusual, more electronic in its nature. If setting the resonance knob to the high position and move the cutoff knob, you can obtain a type of sound that is impossible to be reproduces by any other musical instrument. At its highest level, self oscilation will begin (at the cutoff frequency).

Env mod

Env mod controls how much the cutoff frequency is affected by the envelope.

This controls how much the cutoff frequency is affected by the LFO.

This selector switch enables to select whether to control the VCA by the signal from the envelope generator or by the gate signal. When the switch is down, Gate is on. When the switch is up, envelope is on.

Another additional feature: there is an arpeggiator inside!

The internal arpeggiator is be activated by MIDI CC4,

CC4 sets the direction: up, down, up&down or sequancial (follows the played notes).

CC5 activates the arpegiator (off - 1 oct - 2 oct - 3 oct) CC6 activates the latch mode (on - off). In latch mode off, only the notes being played will be arpeggiated. In latch mode on, any notes played are latched (memorized) and will continue to be arpeggiated even if they are not being played anymore.

The arpeggiator is controlled by the LFO speed and therefore it can be synced to a midi clock.

Cool tips!

Glide!

Per default, the glide is activated when notes are played legato. It can be off or continuously on. CC2 sets the glide off/legato only/on. CC3 sets the glide time. The last set-up is saved in a non-volatile memory.

Accent feature!

Velocity values above 120 are recognized as an accent.

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Use this drawing to note your favorite settings.

	MIDI Implementation Chart			MIDI Clock time table speed notes) i Set
	Pitch-Bend Modulation wheel Glide OFF/ON legato/ON MIDI Glite time apr dir UP - DOWN - UP&DOWN sequential	+/- 2 half tones CC1 0 - 127 CC2 (0/32/64) CC3 0 - 127 CC4 (0,32,64,96)		1 2 3 4 5 6	8 bars 4 bars 3 bars 2 bars 1,5 bar 1 bar	Sen to 1 chai 100 chai is so
	arp OFF - 1 OCT, 2 OCT 3 OCT arp LATCH Sequencer steps MIDI CLOCK MIDI START (set MIDI Sync ON) MIDI STOP (reset the LFO)	CC5 (0,32,64,96) CC6 (on above 64) CC9-CC16 0-127		7 8 9 10 11 12 13	1/2. 1/2 1/4. 1/2 † 1/4 1/4 † 1/8	The sent If y chai send afte
	MIDI channel LFO reset Multiple trigger mode	1-16 (default 1) CC20 CC21		14 15 16	1/8† 1/32 1/64	Help Plea

ting a new MIDI channel

ding a Program Change from 1 l6 will set the new MIDI nnel. Send Program Change to validate the new MIDI nnel. This new MIDI channel aved in the internal memory. Program Change has to be t at the current MIDI channel. you have forgotten on which nnel the unit is set, try to d notes on all channels one er the other.

o!!!! I hear no sound!!!! ise check that your Domino is set on the right MIDI channel!



one supplied.

externally powered.

• During lightning, unplug the unit; make sure the main adapter is not plugged. • Before cleaning your DOMINO, make sure the main adapter and/or any external elements are disconnected from the unit. Clean it with a dry cloth. • Do not try to repair the unit or the components inside of it. Please contact eowave for technical support at sales@eowave.com • Do not use your DOMINO nor store it in dusty areas, damp areas, extreme temperatures, exposed to direct sunlight, areas prone to strong vibrations. • Do not insert any objects nor pour any liquid into the unit. Protect the unit against violent shocks.

is compatible with the main supply. in. Never place heavy objects on your DOMINO.

EOWAVE LIMITED WARRANTY and standard legal disclaimer Thank you for purchasing Eowave product. The following terms and conditions apply: 1. Warranty period is for one year from the date of purchase with a proof of purchase submitted. Warranty covers electrical failure of electronic components, except in cases explained below. 2. Operating instructions must be followed. The Domino must not have been damaged as a result of misuse, neglect, accident, destruction, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized service center, use of replacement parts or modification of the product in any way. 3. Obligations of Eowave shall be limited to repair or replacement with same or similar unit. To obtain repairs under this warranty, present the product and proof of purchase to Eowave service center, transportation charges prepaid. When returning the product for repair, please pack it very carefully, preferably using the original packaging materials. Please include an explanatory note.

CE norm & FCC INFORMATION requirements.

authorisation to use this product in the USA.

info@eowave.com - ph: +33/6 61 70 20 50

• DOMINO don't like to be fried. Only use a AC 12V 1A power supply or the

• To store your DOMINO, use its original packaging. • Do not open or try to modify the unit or its main adapter when the unit is

• Before using DOMINO in a foreign country, make sure that your main adapter

• Never touch your DOMINO or its adapter with wet hands when it is plugged

• DOMINO can spread very high & very low frequencies. Mind your speakers.

1. Important notice: do not modify this unit! This product, when installed as indicated in the instructions contained in this manual, is compatible with the CE norm & FCC

2. Important! When connecting this product to accessories and/or another product, use only high quality shielded cables. Cables supplied with this product must be used. Follow all installation instructions. Failure to follow instructions could void your FCC

Note: this product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class B digital devices & in The European Standard EN 50081-1 on Electromagnetic Compatibility - Generic emission standard on residential, commercial and light industry. Compliance with these requirements provides a reasonable level of assurance that the use of this product in a residential environment will not result in harmful interference with other electronic devices.