The MidiValts Desktop is a MIDI based 5 octave CV controller. The device contains 4 separate CV outputs with an associated Gate output. These CV outputs are called voices, and are named VD, VI. VZ. V3. Each voice operates on the 1 volt per octave standard for eurorack and most hardware synthesizers. The device uses 6 different modes (MOND, DUD, UNISON, POLY3, POLY4, CC) to control each voice in different ways. See below for descriptions of each Mode. The device also contains a Midi to Clock output conversion and further customizations with SysEx midi messaging.

MIDI IN Jack: Connect MIDI Controller/ keyboard MIDI GATE Jack: 3.5 mm jack used to output a 5V Gate Signal OUT to the MidiVolts Desktop MIDI IN (Channel 1).

CV Jack: 3.5 mm jack used to output 1 V/Oct Control Voltages. Due to the outputs low output impedance (5 Ω), multiple oscillators may be connected to any CV and retain precise voltages. Max. Output Voltage: 5V

MONO: Monophonic Mode

Voice O (VO) is Pitch CV for the key pressed. Voice 1 (VI) is Velocity of key pressed. Voice 2 (V2) is Aftertouch of key pressed. Voice 3 (V3) is CC1. Default: Mod Wheel.

DUO: Duophonic Mode

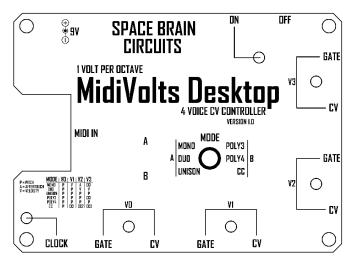
Voice O (VO) is Pitch CV for first key pressed. Voice 1 (VI) is Pitch CV for second key pressed. Voice 2 (V2) is Velocity of first key pressed. Voice 3 (V3) is Velocity of second key pressed.

UNISON: Unison Mode

The purpose of this mode is to aid in the tuning of all connected oscillators.

Voice O (VD) is Pitch CV for the key pressed. Voice 1 (VI) is Pitch CV for the key pressed. Voice 2 (V2) is Pitch CV for the key pressed. Voice 3 (V3) is Pitch CV for the key pressed. when a note has been pressed. (IK Ω Dutput Impedance)

(1KΩ Dutput Impedance)



Note: If more than the allowable amount of keys are pressed, the most recent pressed key will overwrite the previous, even if this key is still beina held.

MidiVolts. Options selectable by first choosing which column the Mode will access, as assigned by the A | B

CLOCK Jack: The device will begin outputting clock pulses when it reads a Start/ Continue message.

POLY4: 4 Voice Polyphonic Mode

POLY3: 3 Voice Polyphonic Mode

switch

Voice O (VO) is Pitch CV for the first key pressed. Voice 1 (VI) is Pitch CV for the second key pressed. Voice 2 (V2) is Pitch CV for the third key pressed. Voice 3 (V3) is Pitch CV for the fourth key pressed.

Voice O (VO) is Pitch CV for the first key pressed.

Voice 1 (VI) is Pitch CV for the second key pressed.

Voice 2 (V2) is Pitch CV for the third key pressed.

Voice 3 (V3) is CC1. Default: Mod Wheel.

9V DC Jack: DC power supply not included.

DIV Switch: Determines which Mode is used to operate

2.1 mm barrel plug (Center Positive)

CC: Continuous Control Mode

Voice O (VD) is Pitch CV for the key pressed. Voice 1 (VI) is CCI. Default: Mod Wheel. Voice 2 (V2) is CC2. Default: 74. Voice 3 (V3) is CC3. Default: 71.

The following may be adjustable with Midi SysEx messages.

Midi Channel: 1 - 16

CV Gain, CV Offset: These are adjustable per voice.

Pitch Bend Up, Pitch Bend Down: Specify the number of semitones.

CC1, CC2, CC3: May be assigned 0 - 127 as desired.

Please go to github.com/spacebraincircuits/midivoltsdesktop1.2 for all operations and guide.

The MidiValts Desktop is a MIDI based 5 octave CV controller. The device contains 4 separate CV outputs with an associated Gate output. These CV outputs are called voices, and are named VD, VI, VZ, V3. Each voice operates on the 1 volt per octave standard for eurorack and most hardware synthesizers. The device uses 6 different modes (MOND, DUD, UNISON, POLY3, POLY4, CC) to control each voice in different ways. See below for descriptions of each Mode. The device also contains a Midi to Clock output conversion and further customizations with SysEx midi messaging.

OUT to the MidiVolts Desktop MIDI IN (Channel 1).

CV Jack: 3.5 mm jack used to output 1 V/Oct Control Voltages. Due to the outputs low output impedance (5 Ω), multiple oscillators may be connected to any CV and retain precise voltages. Max. Output Voltage: 5V

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Voice O (VO) is Pitch CV for first key pressed. Voice 1 (VI) is Pitch CV for second key pressed. Voice 2 (V2) is Velocity of first key pressed. Voice 3 (V3) is Velocity of second key pressed.

UNISON: Unison Mode

The purpose of this mode is to aid in the tuning of all connected oscillators.

Voice O (VD) is Pitch CV for the key pressed. Voice 1 (VI) is Pitch CV for the key pressed. Voice 2 (V2) is Pitch CV for the key pressed. Voice 3 (V3) is Pitch CV for the key pressed.

MIDI IN Jack: Connect MIDI Controller/keyboard MIDI GATE Jack: 3.5 mm jack used to output a 5V Gate Signal when a note has been pressed. (IK Ω Dutput Impedance)

CLOCK Jack: The device will begin outputting clock pulses when it reads a Start/ Continue message. (1KΩ Dutput Impedance)

DFF VE (SPACE BRAIN CIRCUITS GATE 1 VOLT PER OCTAVE \bigcirc MidiVolts D 4 VOICE CV CONTROLLER MIDI IN MDDE Імпип РПІ УЗ A DUO GATE POLY4 B CC В 0 ۷D CV 0 0 CLOCK CV GATE GATE

Note: If more than the allowable amount of keys are pressed, the most recent pressed key will overwrite the previous, even if this key is still beina held.

9V DC Jack: DC power supply not included. 2.1 mm barrel plug (Center Positive)

DIV Switch: Determines which Mode is used to operate MidiVolts. Options selectable by first choosing which column the Mode will access, as assigned by the A | B switch.

POLY3: 3 Voice Polyphonic Mode

Voice O (VO) is Pitch CV for the first key pressed. Voice 1 (VI) is Pitch CV for the second key pressed. Voice 2 (V2) is Pitch CV for the third key pressed. Voice 3 (V3) is CC1. Default: Mod Wheel.

POLY4: 4 Voice Polyphonic Mode

Voice O (VO) is Pitch CV for the first key pressed. Voice 1 (VI) is Pitch CV for the second key pressed. Voice 2 (V2) is Pitch CV for the third key pressed. Voice 3 (V3) is Pitch CV for the fourth key pressed.

CC: Continuous Control Mode

Voice O (VO) is Pitch CV for the key pressed. Voice 1 (VI) is CCI. Default: Mod Wheel. Voice 2 (V2) is CC2. Default: 74. Voice 3 (V3) is CC3. Default: 71.

The following may be adjustable with Midi SysEx messages.

Midi Channel: 1 - 16

CV Gain, CV Offset: These are adjustable per voice.

Pitch Bend Up, Pitch Bend Down : Specify the number of semitones.

CC1, CC2, CC3: May be assigned 0 - 127 as desired.

Please go to github.com/spacebraincircuits/midivoltsdesktop1.2 for all operations and guide.

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