



Vlt1 – User Manual

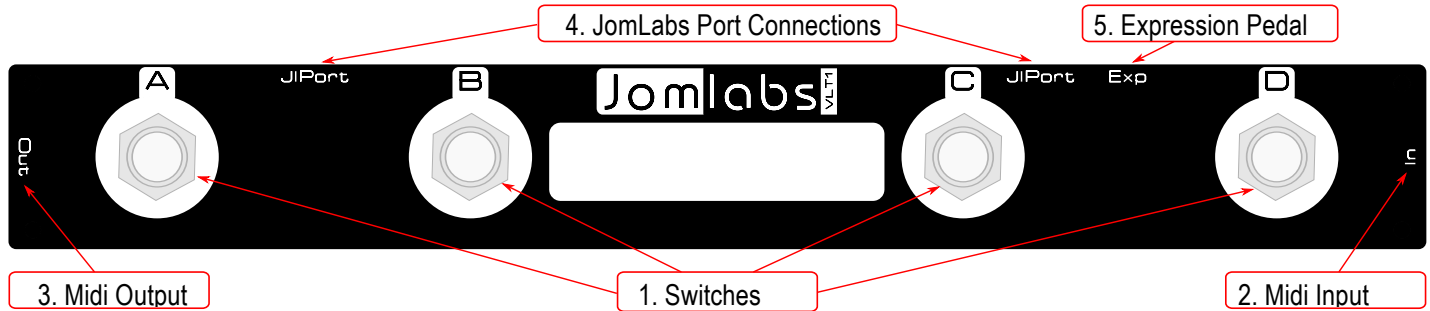
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1. Features

- 4 switches
- Up to 8 pedalboards connecting in serial
- 256 banks in each pedalboard
- Sending up to 8 Midi messages in each Bank
- Sending Up to 16 Toggle Continuous Control Change commands in each bank (value 0 or 127)
- Names for each bank
- Midi Input and Output
- You can configure the functions of each button
- Expression pedal input. You can link one of the 8 Midi bank messages to the expression pedal
- Port JomLabs Ready! Used to control compatible devices
- Phantom power over Midi cable
- Power supply using standard 9V DC
- Dimensions (LxWxH in mm): 277x40x29
- Programming over Bluetooth using app JomLabs Control

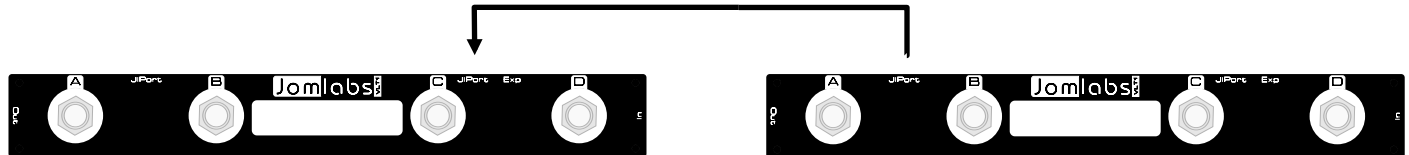
2. Pedal Elements



3. Connections

A) Connecting multiple Vlt1's

You can connect up to 8 units Vlt1 in series. Use JomLabs ports using 6.3mm Stereo Jack cable (You need to connect the power supply in all pedals connected).



B) Connection with external Midi Devices

You can connect Midi devices to control through any Midi output connection using a standard connection cable Midi Din5 or DIN7. For more information check the device manufacturer's manual.

In case you want to use phantom power , you must use a 7 pin cable. Midi pins 6 and 7 are reserved for phantom power. Vlt1 pedals accepts voltages from 7.5 to 25V AC or DC. Check the manufacturer's manual of the device connected to avoid conflicts in the allocation of both pins.

C) Connect pedal Expression

You can connect one or more expression pedals using Exp connection through a 6.3mm Stereo Jack Cable.

D) Conect the power supply

Finally, it is necessary to connect the power supply using a 9V DC transformer of at least 100mA. It is necessary to respect the polarity of the connection as shown below:



Important information! It is necessary connections between pedals and Midi devices prior to connect power supply.

4. Function modes

There is 3 function modes in Vlt1 pedal:

- Bank Mode: It allows to send Midi commands configured in the bank.
- Edit Mode: You can edit bank parameters or general pedal settings.
- Tuner Mode: It allows to get tuner information sent by compatible Midi Devices.

VLT1 pedal contains 4 switches labeled A to D (1). The switches provide three functions depending on current mode selected:

- In Bank Mode: You can change current bank
- In Edit Mode: You can modify parameters or settings
- In Tuner Mode: You can set Midi command to configure your Midi tuner transmitter

4.1. Bank Mode

After pressing change bank switch, this one lights on and the screen will show song and bank names (default option) or it will show bank names / functions for each switch depending on your settings. This setting will be configured in section 4.2.4.2. – General Options.

After selecting a bank, Vlt1 will send Midi commands associated in the bank.

Additional Functions:

Simultaneously pressing two buttons enable navigation between songs.

Following table shows the actions performed by pressing two buttons simultaneously. These functions are provided with a factory setting, but It can be altered (see section 4.2.6.1 - Setting Button Functions):

Switches combination	
A & B	Song goes down
C & D	Song goes up
B & C	Change to Edit Mode for modify parameters and settings

These are the default factory settings. You can customize switches functions, and the combined switches A & B and C & D. For more information see section 4.2.4.1 – Set Function Switches).

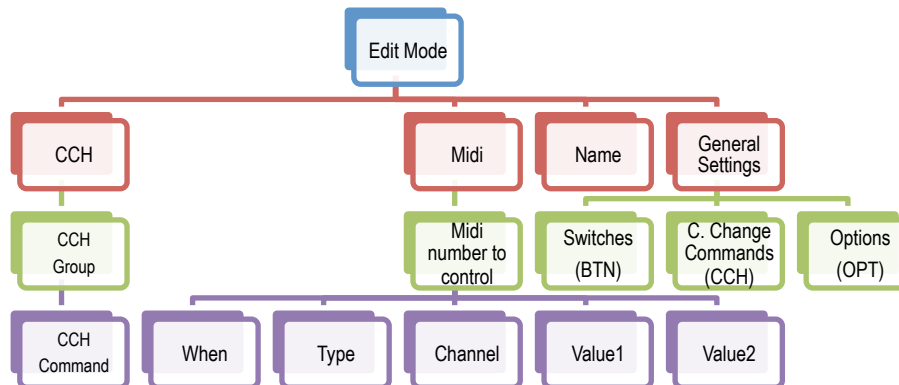
4.2. Edit Mode

In the Edit Mode you can configure bank parameters and general settings. There are 256 banks available for each of the pedals, depending switches they will be arranged in more or less songs. The default setting is 64 songs, 4 banks each one.

To edit the currently selected bank, you must press the buttons B & C simultaneously. In each editing mode screen there is information of actions that can be performed for pressing each of the switches shown.

In any screen edit mode pressing A & B returns to the previous screen and pressing switches C + D leaves edit mode (if you have changed any parameters Vlt1 will ask the user whether to save the bank).

The following diagram shows the menus and screens available in Edit mode:



The next table shows functions associated to each switch:

Edit Mode	
A	Configure Control Change Commands
B	Configure Midi Commands
C	Set bank name
D	General Settings

4.2.1. Control Change Toggle Commands

Continius Control Change Toggle Commands o Control Change Toggle Commands is a simplification of the Change Control to enable or disable features of the Midi modules. They used to bypass effects or functions in the devices. For more information please read your Midi device carefully.

Using these commands you can control state (on / off) up to 16 functions.
Next table shows functions associated to each switch:

Control Change Toggle Commands	
A (Long Press)	CC1: Select switches 1 – 4
B (Long Press)	CC2: Select switches 5 – 8
C (Long Press)	CC3: Select switches 9 – 12
D (Long Press)	CC4: Select switches 13 – 16
A, B, C, D	Toggle Control Change Command (1-4, 5-8, 9-12 or 13-16)

After selecting the group of commands, pressing each of the switches activate or deactivate the command and lighting on the switch if the command is activated. When the command is activated, the Vlt1 sends value 127 to the Midi Channel and Midi Command configured (see section 4.2.6.2 Midi Values on Control Change Toggle Commands). When the command is disabled, Vlt1 sends value 0.

Pressing the switch shows the name configured in the command. (see section 4.2.6.2 – Midi Values on Control Change Toggle Commands).

4.2.2. Midi Commands

You can configure up to 8 Midi Commands in each Bank. Available commands are:

Midi Commands			
Continius Control Change	Start	Stop	Note Off
Program Change	Continue	Note On	Clock

You can associate Midi commands to events in the bank. Next table shows available events:

Events			
DISABLED	Midi command disabled	LONG PRESS	Long press, more than one second
BANK 1ST	After loading the bank	AFTER LONG	After long press
BANK 2ND	2 nd pressing	EXPRESSION	Moving expression pedal

The parameters necessary to set up a MIDI command are as follows:

1. Midi Command to Edit (1 to 8)
2. Moment when the command is launched (see table above)
3. Command Type (see table above)
4. Midi channel (only for some commands)
5. Command number (only for some commands)
6. Command value (only for some commands)

Next table shows functions associated to each switch:

Comandos Midi	
A	Decrement parameter value
B	Increment parameter value
C	Select previous parameter
D	Select next parameter

It is very important to establish the event in which the Midi will be sent, otherwise it will not be sent once made the push command is launched.

4.2.3. Edit names

In this section you can set bank and song names. Song name are shown in the first line in the screen, bank names are shown in second line. You can move the cursor to set both names.

Next table shows functions associated to each switch:

Edición de los nombres	
A	Previous letter
B	Next letter
A Long	Set "A" Letter
B Long	Set blank
C	Move cursor to the left
D	Move cursor to the right
D Long	Set cursor at the beginning of bank name

4.2.4. General Settings

In this menu you can configure next options:

- Switches functions
- Control Change Toggle Commands values
- General options

Next table shows functions associated to each switch:

General Settings	
A	Go to switches functions settings
B	Go to Control Change Toggle Commands Values Settings
C	Go to General Options settings

4.2.4.1. Switches function settings

Vlt1 pedal lets you configure the behaviour of the switches of all the control options available for the switches and combinations of them. There are 4 actions that can be configured related to the type of press:

- Simple press
- Hold press
- After Hold press
- Combined switches

Next table shows functions associated to each switch:

Switch	Simple press	Hold press	After Hold Press	Combined switches
A	BTNA	BTNA.HOLD	BTNA.RLS	BTNAB
B	BTNB	BTNB.HOLD	BTNB.RLS	BTNBC
C	BTNC	BTNC.HOLD	BTNC.RLS	
D	BTND	BTND.HOLD	BTND.RLS	BTNCD

Next table shows available behaviours:

Behaviour	Description
None	No function set
Go Bank	Load the bank
Bank Up	Next Bank
Bank Down	Previous Bank
Edit Bank	Edit current selected Bank
Song Down	Previous song
Song Up	Song next
Tap Tempo	Set tap tempo
Toggle Expression	Select next Midi command assigned to the expression pedal
BT Toggle	Activate / Deactivate Bluetooth
Tuner	Activate tuner mode (Only compatible Midi Devices)
Toggle Cci	Send Control Change Toggle Command (1 to 16)

Some features are not supported with pressing type, function and event. Next table shows compatible features:

Press type	Function	Supported Events	Not Supported Events
Simple Press Combined switches	Go Bank	BANK 1ST BANK 2ND LONG PRESS AFTER LONG EXPRESSION	
Long Press After Long Press	Go Bank	BANK 1ST BANK 2ND EXPRESSION	LONG PRESS AFTER LONG
Simple Press Combined switches Long Press After Long Press	Bank Down Bank Up	BANK 1ST EXPRESSION	BANK 2ND LONG PRESS AFTER LONG

Next table shows default factory settings defined:

Press type	Function	Press type	Function
BTNA	Go Bank	BTNA.RLS	None
BTNB	Go Bank	BTNB.RLS	None
BTNC	Go Bank	BTNC.RLS	None
BTND	Go Bank	BTND.RLS	None
BTNA.HOLD	None	BTNAB	Song Down
BTNB.HOLD	None	BTNBC	Edit Bank
BTNC.HOLD	None	BTNCD	Song Up
BTND.HOLD	None		

Next table shows functions associated to each switch:

Switches functions settings	
A	Previous function
B	Next function
C	Previous switch
D	Next switch

4.2.4.2. General Options

In this menu you can set general options for the Vlt1 Pedal:

Available options are:

Option	Values
Screen Mode	Bank Names Bank Selected
Switches Mode	All No Hold, Rls
Use BT	Yes No

Screen Mode

Using Bank Names, the Vlt1 shows first characters of banks in the current song. Using Bank selected, It shows song name and bank name.

Switches Mode

Using switches mode All you can set all functions in all types of press. Using No Hold, Rls mode you can use only simple press. To edit current bank you must to long press switch associated to current bank selected.

Use Bluetooth

Use this options for switch on / switch off Bluetooth function to avoid interferences.

Next table shows functions associated to each switch:

General Options	
A	Decrement selected option value
B	Increment selected option value
C	Select previous option
D	Select next option

4.2.4.3. Control Change Toggle Commands Midi Values

Use this menu for setting Midi values for the 16 Control Change Toggle Commands and their names.

The parameters required for configuration these commands are:

- Control Change Command to edit
- Midi Channel
- Command number
- Command name

Next table shows functions associated to each switch:

Control Change Toggle Commands Midi Values	
A	Decrement parameter value / decrement Letter
B	Increment parameter value / increment Letter
C	Select previous parameter / Letter
D	Select next parameter / Letter
D Long	Edit command name when parameter Name is selected / Exit editing name function

4.3. Tuner Mode

You can enter this mode pressing B & C switches in Edit Mode. In this mode Vlt1 shows tuner information sent by the compatible Midi Device. You need to connect a standard Midi Cable from Midi Out in your device to Midi In port in the Vlt1.

There are some devices likes Fractal Axe which need to set tuner mode also. To set tuner mode in the device, Vlt1 can send Midi Command at the beginning and end of tuner mode.

Next table shows functions in the switches to set Midi Command to send to the compatible device:

Modo Afinador	
A	Decrement Midi Channel
B	Increment Midi Channel
C	Decrement Midi Command
D	Increment Midi Command
A+B	Exit Midi Command Edit Mode / Exit tuner Mode

After these values are set, entering in tuner mode Vlt1 will send the value 127 in Midi and commands defined. Exiting tuner mode Vlt1 will send the value 0.

5. Bluetooth Connection

Vlt1 pedal has a Bluetooth port useful to send commands and parameters using JomLabs Control app, available in Google Play.

To avoid unwanted access to Vlt1 pedal is recommended deactivate Bluetooth function after configure banks and settings (See section 4.2.4.2 – General Options).

For more information you can visit www.jomlabs.com