

V-UNO X User Manual



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Table of Contents

Introduction.....	2
Controls.....	2
Knobs.....	2
Buttons.....	2
Preset/Bank Buttons.....	3
Footswitch.....	3
LEDs.....	3
Preset/Bank LEDs.....	3
Connectors.....	3
Powering.....	3
Preset Mode (Save, Load, Delete presets).....	4
Load a preset.....	4
Save a preset.....	4
Delete a preset.....	4
Bank Mode (Save, Load, Delete banks).....	4
Load a bank.....	4
Save settings of a bank.....	5
Delete a bank.....	5
Editor.....	5
Pedal detection and connection.....	5
Select between PRESET or BANK mode.....	5
Effect upload in PRESET MODE.....	5
Effect upload in BANK MODE.....	5
Request.....	6
Store Parameters.....	6
Settings menu.....	6
Look.....	6
MIDI channel.....	7
Firmware upgrade.....	7
File menu.....	7
Load IR.....	7
Editor Upgrade.....	7
INFO menu.....	8
MIDI.....	8
List of MIDI messages.....	8

Introduction

The V-UNO X is a multieffect pedal with the ability to download any of the effects available from its editor and assign its parameters to the available controls like knobs, buttons, footswitch, remote footswitch, remote expression and onboard LEDs.

The V-UNO X can be operated in 2 main modes:

- **PRESET mode:** only one effect or combo effect can be downloaded to the pedal with the possibility to save and recall up to 3 presets.

In Preset mode you can also assign the foot switch short press and long press function to toggle bypass, change preset as well assign it to any of the effect parameters.

- **BANK mode:** up to 3 different effects or combo effects can be downloaded on the pedal

The effect categories available from editor app include:

- GAIN: for boost, overdrive and distortion.
- MODULATION: every type of modulation like chorus, tremolo, flanger etc.
- SYNTHESIS: guitar synth, octaver, sampler, ring modulation etc.
- FILTERING: multi band-eq, parametric EQ.
- DYNAMIC: noise gate and compression processors.
- IMPULSE RESPONSE: you can download your IR for speaker and amp simulation.
- OTHER: which includes combo effects mixed-up from the main categories

The V-UNO X includes full MIDI integration, it can receive CONTROL CHANGE and PROGRAM CHANGE messages. MIDI channel can be selected from editor.

The V-UNO X allows to save and recall effect configurations directly from the pedal so you can change PRESET and BANK configuration on the fly through onboard buttons.

The V-UNO X application allows to fully configure FX parameters from the application itself, assign parameters and see them change in real-time as you turn knobs or push buttons on the pedal.

The pedal features true-bypass through relay.

Controls

Knobs

Five control knobs K1, K2, K3, K4 and K5 assignable via the editor application.

Buttons

Three button B1, B2, B3 assignable via editor application.

When long pressed the buttons allow to Delete, Save and Scroll between presets or banks.

Preset/Bank Buttons

Long pressing these buttons handle the following functions:

SAVE: a long press of the central button saves the effect configuration in the current PRESET/BANK position indicated by ORANGE LEDs I, II or III

SCRL: a long press of DX button scrolls to the next preset/bank. In PRESET mode this is useful for selecting a preset without loading it and deleting if necessary. In BANK mode SCRL also loads the bank

DEL: a long press of SX button deletes the selected preset or bank. If no preset or bank was previously saved it won't do anything

Footswitch

The footswitch has dual "short press" and "long press" functions:

- In PRESET mode the footswitch "short press" and "long press" can be independently assigned to Bypass Toggle, Preset Change or Parameter Change as well.

- In BANK mode the footswitch is wired to Bypass Toggle for short press and Bank Change for long press.

Short Press in application is indicated by FS.

Long Press in application is indicated by FL.

LEDs

Up to 3 assignable LEDs are available: SX, DX and MODE LED.

LEDs can be assigned to parameters like LFO in modulation effects to visually check the modulation speed and depth.

If LEDs SX and DX are not assigned they are wired to B1 and B3 button status.

Preset/Bank LEDs

This row of 3 LEDs is used to show the current Preset/Bank selected.

During effect upload they power up in sequence to monitor the upload status.

Connectors

IN: stereo audio input on a single TRS jack socket.

OUT A & OUT B: stereo output on separate TS jack sockets.

RMT/EXP: remote switch or expression pedal input, assignable to parameters, preset/bank change or bypass change.

MIDI IN: TRS 3.5mm mini jack, to receive MIDI messages.

MIDI THRU: TRS 3.5mm mini jack, to route MIDI signal to other devices.

USB: USB-C connector for connection to Windows and MacOS devices and for supplying power to the device

9V DC: for standard 9V DC power supply

Powering

The V-UNO X can be powered either from USB or standard 9V DC PSU (not included).

USB-C: used to power the pedal and connect to devices

DC JACK: BOSS^(TM) standard 9V DC 2.1 mm jack with negative center for applying power to the pedal

The pedal needs at least 150mA but 200mA is recommended. There's no conflict in using both USB and DC jack at same time. In this case the pedal will source current from the 9V DC jack.

Only use 9V DC power supplies with negative center. The pedal can tolerate a maximum of 12V DC but this may cause stress and overheating of some parts.

The V-UNO X is protected against over-voltage, polarity inversion and over-current. If an over-current event occurs, the internal resettable fuse will activate, putting the pedal into protection mode until power is removed.

Preset Mode (Save, Load, Delete presets)

The V-UNO X can store up to 3 presets. The selected preset is indicated by the associated LED.

When the pedal is powered on all the preset LEDs are OFF.

Load a preset

In default mode a long press of the footswitch loads the next preset. At pedal power on no preset are loaded; to enter preset mode long press the footswitch to load preset I, the associated LED will turn on. If no preset was previously saved nothing will happen.

The V-UNO X Editor allows to set preset selection in 4 different ways:

- Footswitch long press
- Footswitch short press
- Remote switch

Presets can also be recalled via MIDI Program Change messages.

Save a preset

Scroll to the preset with SCRL button long press. Long press SAVE button; the associated ORANGE LED will flash a couple of times.

What's the difference between scroll (SCRL) and load the preset through the footswitch long press? Scroll will just select the preset without loading it. Useful for selecting the preset and delete it.

Selecting the preset with footswitch long press will also load the preset.

Delete a preset

Select the preset, by scrolling to it with footswitch long press or by long press of SCRL. Long press the DEL button; the associated ORANGE LED will flash a couple of times.

Bank Mode (Save, Load, Delete banks)

The V-UNO X can store up to 3 effects or combo effects in a bank. The selected bank is indicated by the associated LED.

When the pedal is powered on all the bank LEDs are OFF.

Load a bank

A long press of the footswitch loads the next bank. At pedal power on the 1st bank is loaded.

Banks can also be recalled via SCRL button or with MIDI Program Change messages.

Save settings of a bank

Scroll to the bank with SCRL button long press. Long press SAVE button; the associated ORANGE LED will flash a couple of times.

Delete a bank

Select the bank, by scrolling to it with footswitch long press or by long press of SCRL. Long press the DEL button; the associated ORANGE LED will flash a couple of times.

Editor

Pedal detection and connection

The application can detect the pedal in two different ways:

- Connect the pedal via USB and open the editor. If the pedal is detected the “Device” label will display V-UNO X. Go to Connection menu now and click Link. The label will show “V-UNO X linked”.
- Open the editor and connect the pedal to USB once the application has started. Go to Connection menu and click SCAN. If the pedal is detected the “Device” label will display V-UNO X. Go to Connection menu and click Link. The label will show “V-UNO X linked”.

Select between PRESET or BANK mode

Once the pedal is linked to the editor you can choose if you want to operate the pedal in PRESET or BANK mode.

Go to Settings menu > Mode > choose between PRESET or BANK

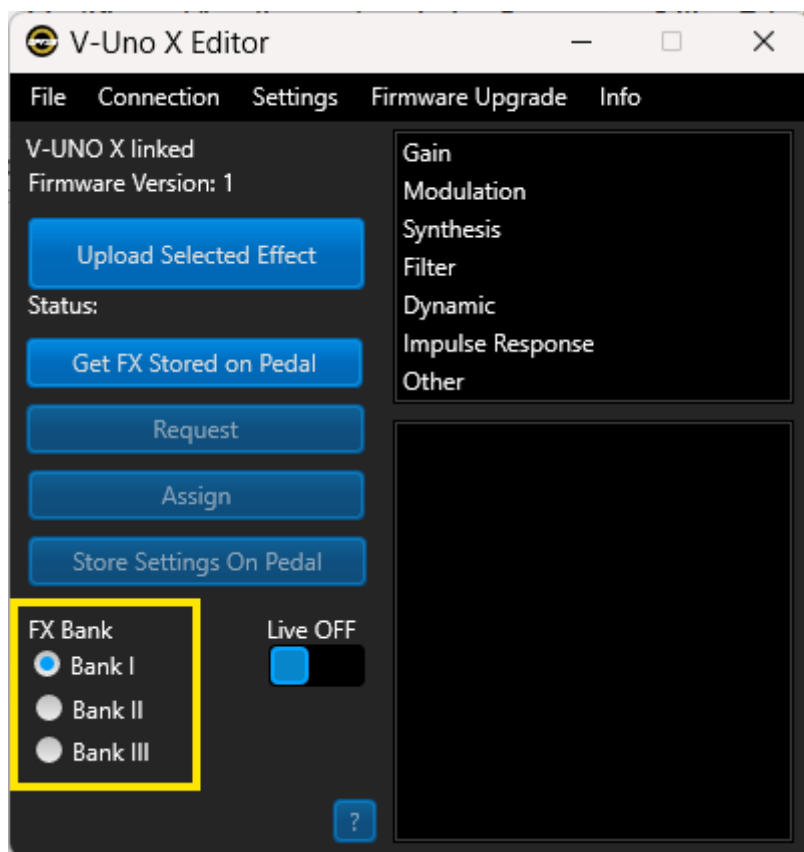
Effect upload in PRESET MODE

1. Select the effect by browsing categories and effect lists.
2. Click Upload Select Effect and confirm.
3. The pedal will now enter in bypass and preset LEDs will turn ON in sequence from 1 to 3, **RED** LED will blink a few times. The pedal will now exit from bypass and **RED** LED will turn on. The status label will display “Upload Complete” if successful.

Upload is fast, it should take no more than 3 seconds. If upload fails the status label will show “Upload failed”. Click Upload Button again and if it fails again try repeating the procedure. Eventually disconnect the pedal from USB, close the editor and try again.

Effect upload in BANK MODE

The process is the same for PRESET MODE but you have to select the bank where you want the effect to be uploaded:



Not all effects are available for upload in BANK mode. Effects not available are grayed out in the effect lists.

The MODE LED will turn **GREEN** in BANK mode.

Request

The Request button gets all settings currently stored on the pedal and updates them on the editor. This includes:

- parameter settings
- assignments
- reverse parameter check
- current MODE
- current bank (if pedal is in BANK mode)
- current preset (if pedal is in PRESET mode)
- MIDI channel

Store Parameters

Once you uploaded an effect to the V-UNO X you can start tweaking its parameters in the effect window. You can save settings you've made either from editor by clicking "Store Settings on Pedal" or long press SAVE button on V-UNO X.

Assignments are automatically stored once you click "Assign" button.

Settings menu

Look

Allows to change the theme of the editor.

MIDI channel

Allows to set the receiving MIDI channel from 1 to 16 or set it to OMNI mode. In OMNI mode the pedal will listen to all the channels. When the channel is selected the configuration is immediately stored on the pedal.

Firmware upgrade

Firmware Upgrade is only required when new functions are introduced on the pedal. When a new application version is available, the Editor will prompt if a firmware upgrade is necessary.

There are 2 methods for upgrading the firmware:

ON mode (suggested, easy and fast):

1. Connect the pedal to USB and link to Editor as usual
2. Go to Upgrade Firmware menu and click Upgrade Mode
3. Follow the on screen instructions

OFF mode (legacy method, to be used in case the method above fails)

To upgrade the firmware keep B2(SAVE) button pressed while connecting the USB cable to the V-UNO X (the pedal has not to be powered from DC jack PSU). In firmware upgrade mode everything is disabled. Preset LED II will be ON (just very dim).

1. Open the V-UNO X editor, go to Upgrade menu and check Firmware Upgrade.
2. Go to Connection menu and click Link
3. If connection is successful the message “connection to bootloader success” will appear.
4. Go to Upgrade menu and click Start Upgrade, a new windows will appear.
5. Select the desired firmware and click the Upgrade button.
6. Once the upgrade is complete a message will appear, click OK and the V-UNO X will exit firmware upgrade mode.

File menu

Save and Load Configuration menu allow to save files locally to be recalled later.

Save Configuration will store the values of the current parameters status on editor. To get the actual configuration stored on the pedal it's essential to click Request button before saving the preset. You can give the preset a name at your choice and save as many as you want. Presets are stored in the user document folder in “/OPFXS/V-UNO X/Preset/” folder.

Configuration files are simple text files and you can copy, rename, delete them or move to any other location outside the V-UNO X editor.

Load IR

Load IR menu allows to load an impulse response file for amp/speaker simulation.

Editor Upgrade

There are 2 methods to upgrade the V-UNO X application:

- go to our website, download the latest version and install manually.
- upgrade directly from the application:
 - at application startup, if a new version is available, a pop-up window will appear
 - going to Info menu and click Update Now

When upgrading the application it's always suggested to upgrade to latest firmware if available.

INFO menu

The info menu displays the following entries:

- Support: will redirect to a form on our website where you can email us to ask for support, report any bugs or request features
- Editor Version: the current version of the editor
- If there's any new version of the editor available or not
- Device serial number: the serial number of the pedal if connected
- Show update message: you can select if you want to display the update message at startup or not, by default it's checked to ON

MIDI

List of MIDI messages

Control Change

CC number	CC data	Function	Description
0	0-127	Bypass	Toggle bypass. 0=bypass ON; 1-127=bypass OFF
1	0-127	Parameter 1	Set associated parameter number
2	0-127	Parameter 2	Set associated parameter number
3	0-127	Parameter 3	Set associated parameter number
4	0-127	Parameter 4	Set associated parameter number
5	0-127	Parameter 5	Set associated parameter number
6	0-127	Parameter 6	Set associated parameter number
7	0-127	Parameter 7	Set associated parameter number
8	0-127	Parameter 8	Set associated parameter number
9	0-127	Parameter 9	Set associated parameter number
10	0-127	Parameter 10	Set associated parameter number
11	0-127	Parameter 11	Set associated parameter number
12	0-127	Parameter 12	Set associated parameter number
13	0-127	Parameter 13	Set associated parameter number
14	0-127	Parameter 14	Set associated parameter number
15	0-127	Parameter 15	Set associated parameter number
16	0-127	Parameter 16	Set associated parameter number

Program Change

Program Change Number	Description
0	Set Preset/Bank 1
1	Set Preset/Bank 2
2	Set Preset/Bank 3