

# Moog Minitaur Firmware v2.2.1 Release Notes

## Windows users:

**DO NOT** install the Minitaur USB Driver until **AFTER** you update your Minitaur's firmware to v2.2.1. The USB driver is not compatible with older firmware, and may prevent the firmware update from working properly.

*If you installed the USB Driver before updating your Minitaur's firmware, uninstall the Minitaur USB Driver from the Control Panel ("Uninstall Programs") and then update your Minitaur's firmware.*

## Mac users:

When opening the Minitaur Firmware Updater, you may see the following message:

"Minitaur Firmware Updater 2.2.1.app can't be opened because it is from an unidentified developer."

### To open the updater:

- 1) Hold Control + click on the app icon
- 2) Choose "Open"
- 3) Select "Yes" when asked if you want to run it anyway.

## Mac & Windows:

### To update your firmware:

- 1) Connect your Minitaur directly to a computer via USB cable (do not use a USB hub)
- 2) Launch the Minitaur Firmware Updater v2.2.1 application.
- 3) Follow the on-screen instructions to begin the firmware update process.
- 4) You will be prompted to unplug and re-connect the power to your Minitaur and then the firmware update will proceed automatically

When the progress bar reaches 100%, your Minitaur will reboot and the firmware update will be complete.

## Troubleshooting:

### **Q: My Minitaur is not detected by the updater after entering bootloader mode**

*You have already powered down your Minitaur, plugged in the powered cable while holding the Oscillator 1 and 2 waveshape buttons, pressed the Release button while continuing to hold the Oscillator 1 and 2 waveshape buttons and then released all three buttons.*

**A:** Try closing and re-opening the Firmware Updater. You should then be prompted to press the "Install" button and begin the firmware update.

### **Q: After the Installation progress bar reached 99%, it went blank and the Minitaur hardware rebooted.**

**A:** If your Minitaur is running normally at this point (it should be), then the firmware process is complete, even if the Firmware Updater did not say so explicitly.

### **Q: Is there a way to verify the current firmware version in my Minitaur**

**A:** You can restart the Firmware Updater and check its "Installed Version" number (don't actually update the firmware again if the Installed Version is 2.2.1). You can also open the Minitaur Software Editor and find the current firmware version number on the Settings page.

# Change Log:

## v2.2.1

- LFO Key Trigger doesn't work if MIDI SYNC is On but Minitaur is not receiving MIDI clock
- Envelope Release knobs stop working if Env Release Mode is set to "Independent Decay/Release", Release is On, and the user presses the hardware Glide button

## v2.2.0

- Added RPN 2 Coarse Tuning support (-64 to +63 semitones)
- Added LFO modes: Square, Ramp, Saw, Sample/Hold, Filter EG
- Added VCO2 Hard Sync
- Added "VCO 2 Only" option for LFO-to-VCO pitch modulation.

## Additional shifted panel controls

- Hold GLIDE + turn LFO RATE knob to set LFO Waveform (Tri, Sqr, Saw, Ramp, S/H, Filter EG).
- Hold GLIDE + turn VCO 2 LVL knob to turn VCO 2 Hard Sync on or off.
- Hold GLIDE + turn VCO LFO AMT knob to set LFO "VCO2 Only" (Off or On).
- Hold GLIDE + turn FILTER ATTACK knob to set Filter EG Delay Time (0ms to 10s).
- Hold GLIDE + turn GLIDE knob to set global Top Octave Wrap behavior (Off or On).
- Fixed LFO KB Reset when LFO Midi Sync is active
- Fixed Release switch response to editor when in independent decay/release
- Restore edited preset if saving is initiated on the hardware, preset location is changed, and then save is canceled
- Last received MIDI mod wheel value persists, when turning "load preset mod wheel" on/off.
- Improved LFO MIDI Sync
- Re-mapping CV inputs restores preset value for previously-mapped parameter .
- Removed internal pitch-CV offset on boot ("cv start note" is now 0; was 20 — can also set a custom CV start note via sysex F0 04 08 23 18 00 nn F7, where nn = start note in hex)
- Pitch-CV input re-scaled to full range when mapped to parameters other than Pitch-CV
- Wrap top octave fix, for small VCO2 detuning values
- Filter EG delay time range set 0 to 10 seconds
- Glide time restored after Note Calibration
- Minitaur no longer adds a tilde (~) after preset name, when saving on the hardware

## v2.1.1

- Fixed MIDI Sustain Pedal bug; doesn't cut off notes that are still held when releasing Sustain
- Fixed bug when importing Sysex Tuning Octave scales in 1-byte format
- Slowed sysex output to Editor by 50% to improve reliability

## **v2.1.0**

*See separate v2\_1 new-features documentation for complete details.*

### **New front-panel controls**

<b>VCO2 BEAT FREQUENCY:</b>	Press GLIDE + turn VCO 2 FREQ knob
<b>EXT. INPUT LEVEL:</b>	Press GLIDE + turn VCO 1 LEVEL knob
<b>TRIGGER MODE:</b>	Press GLIDE + turn FILTER EG ATTACK knob
<b>FILTER EG HOLD TIME:</b>	Press GLIDE + turn FILTER EG DECAY/RELEASE knob
<b>AMP EG HOLD TIME:</b>	Press GLIDE + turn AMP EG DECAY/RELEASE knob
<b>PANIC/ALL NOTES OFF:</b>	Press GLIDE + turn AMP EG SUSTAIN knob TO ZERO.
<b>GATE ALWAYS ON:</b>	Press GLIDE, turn AMP EG SUSTAIN knob TO ZERO, THEN TO MAXIMUM. (do “Panic” function to turn off again)
<b>SAVE CURRENT PRESET:</b>	Press GLIDE + press & hold RELEASE switch; hold both for 1 second. Settings will be saved in the currently-active preset location.
<b>SAVE TO A NEW LOCATION:</b>	Press GLIDE + RELEASE switches; let go. You’ll see GLIDE and RELEASE LEDs flashing on and off. You can change presets in the normal way (hold GLIDE button, press OSCILLATOR 1 or 2 buttons to change preset); when you find a preset you want to save over, hold GLIDE + Press RELEASE to finish saving. Press RELEASE by itself to cancel without saving.

- Added support for MIDI Octave Tuning standard (compatible with Moog Phatty Tuner app).
- Added MIDI Program Change support.
- Additional global settings now available via v3 Minitaur Editor software.

## **v2.0.0**

- Added SysEx presets (100 presets internal memory)
- Panel controls to change presets (hold Glide button, press VCO1/VCO2 button)
- Independent EG Decay/Release times (hold Release button while turning Decay knob to adjust Release independently)
- Multiple Knob Modes: Snap, Pass-Thru, Relative
- Assignable CV Inputs (CV to any parameter, + CV to MIDI)

## **v1.0.7**

- Glide Rate goes all the way to zero when Glide is off; previous minimum glide rate was still audible as a glide at certain settings.

## **v1.0.6**

- fixes USB Disconnect handling issue
- VCA Gate responds to MIDI notes above note 72 (VCO pitch still limited to note 72, which is a hardware limitation)

## **v1.0.5**

- note sync follows trigger mode
- MIDI led does not default to light on clocks (now sysex enabled)
- fixed usb descriptor in Windows
- local control always enabled on power up
- note stack does not retrigger currently playing note if other note is released.

## **v1.0.4**

- fixes MIDI CC output for quantized parameters.

## **v1.0.3**

- first released version.