EvenMidi®

www.evenmidi.com

PITCHY
MIDI CONTROLLER

USER MANUAL
ENGLISH

MADE IN FRANCE

EvenMidi®
MIDI CONTROLLER

Pitchy
www.evenmidi.com
2017

Thank you for purchasing Pitchy Midi controller. First it was a DIY project and now it's a professional tool. We added a lot of features and received some cool suggestions from your comments. You'll be very happy to control your Digitech® Whammy® or your Eventide® H9/PitchFactor with Pitchy. Have Fun!

Specifications

Use a MIDI cable (5DIN) to connect the EvenMidi® Pitchy to the Eventide® H9/PitchFactor or Digitech® Whammy®.

MIDI OUT: Connect Pitchy to Eventide® H9/PitchFactor or Digitech® Whammy® MIDI IN

EXP: TRS - Expression pedal From 10k to 50k Ohms or Footswitches

DC INPUT: Connect a power supply 9V DC 2,1mm - negative center 200mA

SEQ LED: Sequencer Mode active status

MOD2 LED: Mod2 Active status or Tempo indication
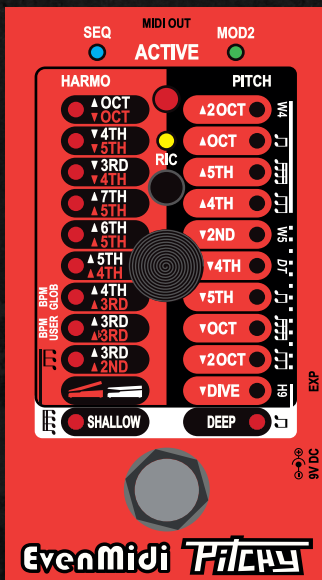
RIC LED & SWITCH: Ricochet Mode Led status & active

ACTIVE LED: Led active status

ENCODER: Changing presets

ENCODER SWITCH: Active Mod2 if available and more

FOOTSWITCH: Activate/Bypass Pitchy

HARMO: 9 presets
PITCH: 10 presets
DETUNE: 2 presets

VERTICAL MENU: Display all the Pitchy Modes

Features

■ 1 - EVENMIDI® PITCHY FEATURES

Pitchy contains a lot of cool features.
With an Eventide® H9, PitchFactor:
- Recall all Whammy® presets with only one Eventide® Preset

With a Digitech® Whammy® 4:
- Recall all whammy® presets and add the 4 «missing» presets compared to the whammy® 5 (+5th + 4th - 4th - 5th)

With a Digitech Whammy® 5, Bass, DT:
-- Recall all whammy® presets and access to Classic/Chords (W5) or Drop Tune (DT) menu with Encoder switch (status = Led Mod2)

Sequencers :
- 3 sequencers type: 1/8th,1/16th, 1/12th note
- 8 presets by sequencer type
- Sequencer Editor, Test & Save
- Tap tempo
- Use global tempo or Preset Tempo

Ricochet
- Use the footswitch as an expression pedal
- Set the ricochet Up and Down speed
- In sequencer Mode, Ricochet launch only one Sequence if pressed one time.

Expression input type with only one TRS cable
- Expression pedal
- 3 momentary footswiches (preset+, preset-, active)
- Expression pedal + one momentary footswitch (activate)
- EvenMidi Magic Switch (3 momentary footswitches + Expression).Passive. Available soon.

Global
Expression pedal or Ricochet are always sent, even if the preset is not loaded. It means you don't have to use several expression pedals for your others Eventide® presets.

Settings
Midi channel Sent (1-16)
Expression pedal Calibration
Expression input type

Eventide® H9/PitchFactor Settings

■ 2 - EVENTIDE® SETTINGS

1) Create your Presets
Pitchy calls 2 presets on your Eventide® :
- 1 for the Whammy® effect
- 1 for the Sequencer effect
You need to create this 2 presets as below. Save it on your wanted preset number, then assigned it to the Specific Midi Program Change:

2) Your Whammy preset -> Midi PC 117 Called

Algorithm: PitchFlex
Mix: 100 | *PitchMix:* A10 B0 | *Heel-A:* Unison
Heel-B: Unison | *HTGLIS:* Instant | *THGLIS:* Instant
LPF: 22 | *SHAPE:* 0 | *TOE-A:* Unison | *TOE-B:* Unison
Name: Whammy®

3) Your Sequencer preset -> Midi PC 118 Called

Algorithm: PitchFlex
Mix: 100 | *PitchMix:* A10 B0 | *Heel-A:* -2 oct.
Heel-B: Unison | *HTGLIS:* Instant | *THGLIS:* Instant
LPF: 22 | *SHAPE:* 0 | *TOE-A:* +2 oct. | *TOE-B:* Unison
Name: Sequencer

You have to set your Eventide® H9 to work properly with the controller. Use the H9 control software is easy to set parameters in **Pedal>MIDI Settings**. You can also **hold down Hotknob and Tap for 2s.** then scroll with encoder to access *MIDI* settings. **Press the «encoder switch»** to enter menu and **press «presets» switch** to return. **Hold down Hotknob and Tap for 2s.** to save & exit.

4) MIDI Channel - *RCV CH*
Set your H9 or PitchFactor on Midi channel receive 1 for example.

5) Assign MIDI CC messages - *RCV.CTL*
Press Tap or Active and use encoder to set properly.

K30-K39 *Set parameter 1-10* ► C22-C31
EXP *Set expression pedal value* ► BND (PitchBend)

6) Assign MIDI PC messages - *RCV.MAP*
Press Tap or Active and use encoder to set properly.

117 *PC Number 117* ► Your Whammy Preset Number
118 *PC Number 118* ► Your Sequencer Preset Number
125 *PC Number 125* ► BYP (bypass the pedal)
126 *PC Number 126* ► ACT (activate the pedal)

✱ If your Eventide® H9 is connected with H9 app :
- via Bluetooth, you must turn on MIDI over Bluetooth in MIDI settings to make MIDI works.
- via USB, you can't use MIDI IN Eventide® H9 port to make MIDI works but you can use your MIDI IN soundcard. Check Settings>Connect MIDI Device to Eventide® Device in H9 control app.

Digitech® Whammy® Settings

■ **3 - DIGITECH® WHAMMY® 4, 5, BASS, DT SETTINGS**

You may need to set the MIDI Channel received on your Whammy® 4, 5, Bass or DT. *Press the footswitch* at start then turn the rotary encoder to the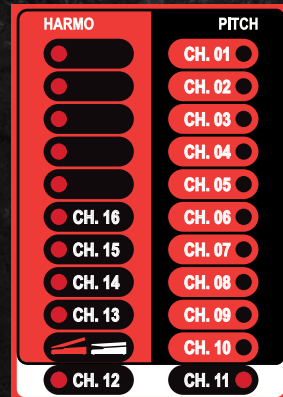 MIDI channel wanted. Choose channel Omni or 1 if you control only whammy via MIDI or if you have no idea. Then *press the footswitch* again to save. For more details just check the Digitech® user manual on Digitech® website.

EvenMidi® Pitchy Settings

■ **4-MIDI CHANNEL SENT**

By default, Pitchy send Midi messages on channel 1. The Midi channel sent must matched with the Midi channel received. To change it :

- *Hold the Footswitch* when Pitchy starts: the red Led flashes
- Select your channel Midi as indicated below with the rotary encoder
- Save & Exit: *Press the encoder switch*, the 3 upper Leds flash 10 times
- Exit without save: *Press the Footswitch*

HARMO	PITCH
	CH. 01
	CH. 02
	CH. 03
	CH. 04
	CH. 05
CH. 16	CH. 06
CH. 15	CH. 07
CH. 14	CH. 08
CH. 13	CH. 09
	CH. 10
CH. 12	CH. 11

■ **5-HARD RESET**

- Enter in Midi channel settings: *Hold the Footswitch when Pitchy starts*, the red Led flashes
- *Hold the Footswitch for 10s.*: the 3 upper Leds flash 20 times: hard reset is done, all factory settings are recalled. All sequence presets are back to factory presets.
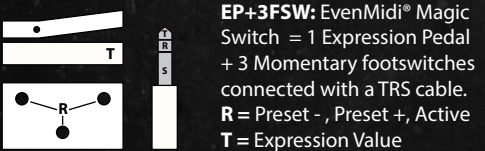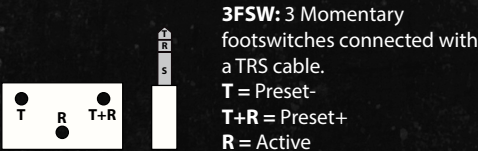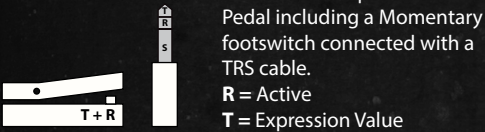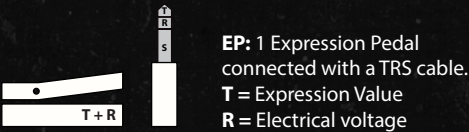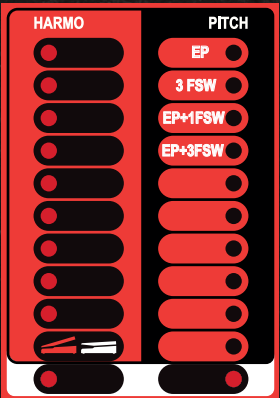- Exit: *Press the Footswitch*

■ 6-EXPRESSION INPUT MODE

The EXP input allows 4 different hardware connections possible with a single TRS cable.

Access to the Expression mode:

- *Hold the footswitch and the encoder switch* when Pitchy starts: the red Led flashes and Blue and Green Leds turn on.
- Select your Expression Mode as indicated on the right diagram with the rotary encoder.
- Save & Exit: *Press the encoder switch*, the 3 upper Leds flash 10 times
- Exit without save: *Press the Footswitch*

EP: 1 Expression Pedal connected with a TRS cable.
T = Expression Value
R = Electrical voltage

EP+1FSW: 1 Expression Pedal including a Momentary footswitch connected with a TRS cable.
R = Active
T = Expression Value

3FSW: 3 Momentary footswitches connected with a TRS cable.
T = Preset-
T+R = Preset+
R = Active

EP+3FSW: EvenMidi® Magic Switch = 1 Expression Pedal + 3 Momentary footswitches connected with a TRS cable.
R = Preset - , Preset +, Active
T = Expression Value

■ 7-EXPRESSION PEDAL CALIBRATION

By default, Pitchy is set to work with a 10k Ohms expression pedal potentiometer. You may need to calibrate the pedal as you prefer.

Calibration process :
- Connect your expression pedal to Pitchy
- *Hold the encoder switch* when Pitchy starts: the blue Led flashes
- Move your expression pedal: the Leds follow your foot movment

- Push the pedal to max. toe.
- *Press the footswitch*: the green Led flashes
- Push the pedal to min. heel.
- Save & Exit: *Press the footswitch*, the 3 upper Leds flash 10 times
- Exit without save: *Press the encoder switch*

If the distance between max and min value are too small, Pitchy will restore factory values.

5

EvenMidi® Pitchy behavior

■ 8-PITCHY MODES

You have to select the Pitchy Mode according to your target device. The pitchy mode allows to access whammy-type, sequencers and tempo modes.

Acces to Pitchy Mode:
- *Press Footswitch + Encoder switch*
- Red Led flashes. If you are on a Sequencer Mode, The blue Led turns on. If you are on a Tempo(BPM) Mode, The green Led turns on
- Select the needed Pitchy mode with rotary encoder
- Save & Exit: *press the encoder switch*, the 3 upper Leds flash 10 times
- Exit without Save: *press the footswitch*
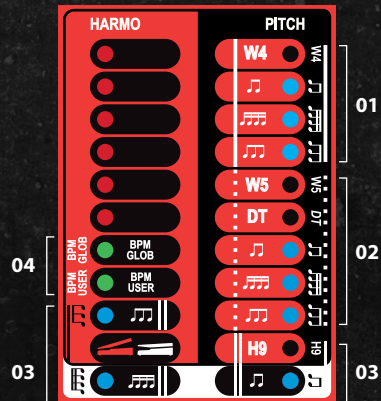
Check the diagram on your top right. As you can see each device is grouped:

01 - *W4 = Whammy 4 | W4 Sequencer 1 | W4 Sequencer 2 | W4 Sequencer 3*
02 - *W5 = Whammy 5/Bass | DT = Whammy DT | W5/DT Sequencer 1 | W5/DT Sequencer 2 | W5/DT Sequencer 3*
03 - *H9 = Eventide H9/PitchFactor | H9 Sequencer 1 | H9 Sequencer 2 | H9 Sequencer 3*
04 - *TEMPO : BPM User (by preset) | BPM Global (same BPM for all presets)*

■ 9-MOD2 ●

When you load W5(Whammy® 5) or DT (Whammy® DT) Pitchy Mode, *the encoder switch allows you to switch to the MOD2*. The green Led turns ON when MOD2 is activated.

W5: the MOD2 switches from Classic to Chords Mode

DT: the MOD2 switches from Whammy® to Drop Tune Mode. Check the diagram on your right:

Encoder switch has no effect with W4 or H9 modes. It's impossible to use MOD2 with Sequencers.

● *Whammy DT - Mod2 = Drop Tune*

■ 10-RICOCHET ●

You can easely turning On or Off Ricochet Mode: *press the RIC switch*. When activated, **the yellow Led turns ON**. Even if you are in Ricochet Mode the expression pedal still works.

Ricochet simulate an Expression pedal. You have to set the Up and Down time in Pitchy Ricochet Settings (next paragraph).

The activate Led light follows the Ricochet time progression when the footswitch or the external footwitch is engaged.

With Eventide® H9 or Pitchfactor, *press the footswitch 2 times quickly* **to call the Preset (Program Change 117):** the blue and green Led turn On when the Preset is called.

■ 11-RICOCHET SETTINGS ●

Access to Ricochet Settings: you have to be on W4,W5,DT or H9 Mode (NON-Sequencer) with Ricochet switch engaged (**Yellow Led turns On**) to set it.

- *Hold encoder switch 2s.* to access Ricochet settings
- The red Led flashes according to Ricochet Up speed.
- *Press the Footswich* to check Ricochet Speed.
- Move the rotary encoder to increase or decrease Ricochet Up speed value.
- Once your Ricochet Up speed value is Ok, *press the encoder switch*.

- Now the Green Led flashes according to Ricochet Down Speed value
- *Press the Footswich* to check Ricochet Speed.
- Move the rotary encoder to increase or decrease Ricochet Down speed value.
- Save & Exit = *Hold encoder switch 2s.*
- Exit without save = *Press the footswitch 2 times very quickly*.

Ricochet UP   **Ricochet DOWN**

EvenMidi® Pitchy Sequencer ●

The Pitchy includes a simple but very cool Sequencer fully editable. A sequencer is a succession of notes looped in rythm. It means that when you play one note, you will hear a succession of several other notes.

The Pitchy sequencer works as an expression pedal which moving its position according to targeted notes of your sequence. We have record the exact expression pedal position value for each semi-ton with a Tuner and for each device H9/W4/W5.

- *With the whammy 4, 5, BASS, DT the sequencer only use 2 presets: - 2octaves, + 2octaves*
- *With the Eventide H9/PitchFactor the presets is set to - 2octaves, + 2octaves*

■ 12 - ACCESS TO SEQUENCER

Enter in Pitchy Mode *(Press footswitch + encoder switch)* and select one of the three sequencers:

1/8th,1/16th,1/12th notes. According to sequencer selected the presets will contain 8 or 16 or 12 notes. 8 or 16 is for binary sequences and 12 is for triplet ternary sequences.

■ 13 - LAUNCH A SEQUENCE

In standard Mode *press the footswitch* to launch the looped sequence. Pressing the footswitch again stops the sequence after its cycle ending.

In Ricochet Mode, *press the footswitch* lo launch the sequence: the sequence is only played one time and then stops. Hold the footswitch to loop the sequence.

■ 14 - TAP TEMPO

The encoder switch works as a tap tempo. *Tap 3 times regulary on the encoder switch* to change the tempo.

Note: you can't Tap tempo when your in the Sequencer Editor. Tap the desirated tempo before edit the sequence to make the tempo saved.

Warning: If you are in Ricochet Mode and you *press the encoder switch* while *holding the footswitch* to loop your sequence, you will enter in Pitchy Mode, not change the tempo!

■ 15 - SEQUENCER PRESETS

For each sequencer you have 8 presets:
- 8 presets for 1/8th note
- 8 presets for 1/16th note
- 8 presets for 1/12th note

This presets are shared with all materials (W4,W5,DT & H9).Simply select preset wanted with the rotary encoder.
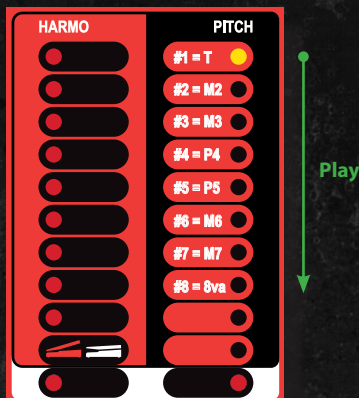
EvenMidi® Pitchy Sequencer Editor ●

■ 16 - ACCESS SEQUENCER EDITOR

You can edit, test and store each sequencer preset.
To edit a sequence, select the sequence with the rotary encoder then press the encoder switch for 2s.
All notes are apportioned on red Leds. The red Led is flashing during edition.

Here is an example of a major scale on a sequence in eighth notes:


Play

■ 17 - TEST YOUR SEQUENCE

Press the footswitch to play the sequence one time. The Leds scroll one by one according to sequence number of notes (8,16 or 12).

■ 18 - EDIT A NOTE

Move the rotary encoder to select the note you want to change. You can hear the different notes when moving the rotary encoder. *Press the encoder switch* to acces to note edition: **the red led flashes faster**.

Move the rotary encoder will change the note semi-ton by semi-ton. If you want to switch from original note to targeted note, *press the footswitch*. Very handy!

Rotary encoder
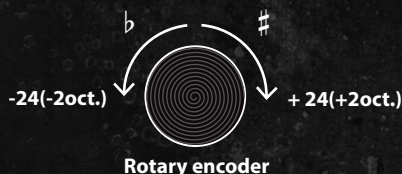
Once you have choosen the wanted note, *press the encoder switch* again : you're back in the sequence.

Repeat this process for the 8 or 16 or 12 notes.

■ 19 - SAVE YOUR SEQUENCE OR EXIT

- To save the sequence and exit, *hold the encoder swith for 2s.*
- To exit without saving, *press the footswitch 2 times quickly.*

Conclusion

As you just read it, the Pitchy is a little cool red box which hide an awesome and not ordinary Midi controller.

It will be usefull for the musicians who want to:

- transform their Eventide H9/PitchFactor as a Whammy including Ricochet and Sequencer.
- rack their whammy or/and extends whammy capabilities with Ricochet and Sequencer
- reduce place on their pedalboard but without losing whammy sound/presets/gesture.
- share only one expression pedal with all their effect to reduce pedalboard.

Guitarists, bassists, electronic musicians and all musicians can enjoy this little box because it's a lot of fun to play with it and it's a very creative tool. We worked a lot of time on it, so we hope you will love it.

All the best,
Franck Graziano

Pitchy v2.0 Annex
MIDI Input

The new Midi connector on the Pitchy Side enclosure allow a lot of new and cool features.

Midi Out/Thru

Now it will be easier to insert Pitchy in your rig. A lot of Midi controllers filters their Midi Input by allowing only Program Change (PC) messages. Pitchy can't works with this midi controllers caus it sends Program Change (PC), Control change (CC) and Pitchbend messages. So it's a good news, you don't need a Midi Merger anymore.
Pitchy is Midi Thru without any filter (except Midi clock if you want) so everything received by Midi In is transferred to Midi Out.

Midi Clock

Sequencer can now be at the same tempo as your other devices thanks to Midi clock. Very handy !

Program Change

You can recall any Pitchy preset thanks to Program

Change (PC): Active, Bypass, launch sequencer, for Whammy 4, 5 DT and Eventide H9.

Expression pedal

Another cool thing is that now you don't need a specific cable if you want to use the midi expression pedal of your main midicontroller : Pitchy reads Pitchbend (PB) midi message or ControlChange 11 (CC) and change it to CC for whammy devices or let Pitchbend for Eventide devices.

Midi Notes and Computer stuff

This new feature is very cool. You can easely access to all semi-tones thanks to Midi Notes. Example : write your Notes on your daw (Pro tools, Reaper...) piano roll and send it to Pitchy. All your project is stored, synchronized, and will work with all whammy or Eventide. Combine Notes and Pitchbend(or CC) and you can write anything you want without any limit of time! It can be an amazing tool in Live synchronized with your daw.

MIDI Input - Messages handled

MIDI THRU	YES (MIDI Clock can be filtered)		
MIDI Clock (check Midi input channel settings and Midi Clock**)**	YES		
Program Change (PC)	Pitch [PC0 - PC20]	SEQ 8th [PC21-PC28] SEQ 16th [PC29-PC36] SEQ12th [PC37-PC44]	BYPASS [>= PC45]
Pitchbend (PB)	YES (expression pedal) [-8192,+8191]		
Control Change (CC)	CC11 (expression pedal) [0-127]	CC100(Mod2 OFF) [any value]	CC101(Mod2 Whammy5) CC102(Mod2 Whammy DT) [any value]
Note On (Piano Roll)	-2oct	0	+2oct [00(C-1)	24 (C1)	48(C3)]	Bypass [>= 49 (C#3)]	

Note : Ricochet is not accessible via Midi messages.
Note 2 : You can't switch between different targeted devices (Whammy-Eventide) with Midi messages. Only Mod2 is handled. You have to select the devices targeted Manually with the Pitchy (see user manual 8-Pitchy modes).

MIDI INPUT CHANNEL SETTINGS AND MIDI CLOCK

Important : Control Pitchy with an external passive footswitch is not more supported on this version with Midi input.

Here you Select the Midi Channel Receive and if Midi Clock is active or not. Factory default is Channel Receive 16, Midi Clock ON.

Access to the Midi Input channel settings:

- Hold the footswitch and the encoder switch when Pitchy starts: the red Led flashes and Blue and Green Leds turn on.
- Select your Midi Channel receive as indicated on the right diagram with the rotary encoder (or Midi clock on/off).
- Save & Exit: Press the encoder switch, the 3 upper Leds flash 10 times
- Exit without save: Press the Footswitch
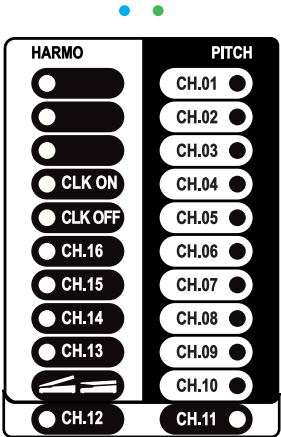
Time Launching In Channel Midi Output Settings

Now you can set the time to active preset for Eventide H9/Pitchfactor. The problem : While H9 load a new algorithm the CC(ControlChange) are ignored (only CC active/bypass status is read by H9 while loading). If the previous preset is on the same algorithm you will not have this loading problem. But if you're coming from a big algorithm like PitchFuzz, it takes 280ms to switch from this algorithm to Pitchflex algorithm. That's why Pitchy prevent this loading and add this 280 ms delay before sending CC to H9.

Now you can select the activate time of Pitchy : 280ms(factory default), 140ms, 93ms, 28ms.

If you use your H9 with only Pitch algorithms (like a Pitchfactor) you can set a short time. But if you want to go from Pitchfuzz algorithm to Pitchflex, you need to keep the factory default 280ms.

- Hold the Footswitch when Pitchy starts: the red Led flashes
- Select your delay time as indicated with the rotary encoder
- Save & Exit: Press the encoder switch, the 3 upper Leds flash 10 times
- Exit without save: Press the Footswitch