

Pedal-based drum machine

Stand-alone device: no computer needed for creating beats

8 samples of classic sounds specially selected and processed from real instruments

SNARE / BASSDRUM / RIMSHOT / HIHAT / CLAP /
COWBELL / TOM / CONGA

SYNC and MIDI connections for synchronization Irregular time signatures other than 4/4 16 user programmable patterns

Instrument input

LIVE mode: pedal control for live use Pitch Down and Aliasing Effects EXTRA: Joystick Mode, Expert Mode

Tap Tempo

USER MANUAL

BEAT2 Rev 24/12/2024

Congratulations, you got the Beat!

Create and program your own beats, add them to your effects chain and sync them with other instruments.

Designed to meet the needs of all musicians, whether rehearsing, composing and demoing, playing live or recording. Program rhythms and patterns easily and intuitively, with sounds specially sampled from real instruments, with great sensibility accents and pitch effects, and take them everywhere with this amazing drummer-in-a-box.

Now you have the Beat, the first drum machine in pedal format.



Controls

Some knobs have an alternate function if used in combination - that is, turning while holding down- with the REC or PLAY button.

BPM: This control sets the tempo of the beats. It is inactive when the pedal is synchronized to other devices with the MIDI/Sync connection.

LEVEL: Volume of the beats.

MOD: Modification of the sounds. Determines the intensity with which the sound selected in SAMPLE will sound or be recorded.

In combination with the REC button, it controls the pitch of the sound.

In combination with the PLAY button, it controls the aliasing effect – digital degradation due to reduction of the sampling frequency.

BEAT/BANK: Selects beat 1, 2, 3, or 4. The selected beat can be modified, sounds can be added or removed, or simply played. In combination with the REC button, selects the beat bank, A, B, C, or D.

SAMPLE: Selects the sound sample to record and/or trigger. In combination with the REC button, modifies the time signature of the selected beat (Default: 4/4)

PLAY: Play or stop the selected beat.

TAP: Triggers the selected sound. If held down, the sound will be repeated in quarter notes. If REC mode is active, the taps will be recorded in the current beat. In combination with the REC button, the selected sound is erased from the beat.

In LIVE mode, it allows movement to the next/previous beat.

TAP TEMPO: In combination with the PLAY button, tap tempo is made by tapping 3 quarter notes on the TAP button.

REC: Enables recording of sounds on the selected beat. The red LED indicates when REC mode is active. In combination with the PLAY button, saves the

current beats and their modifications to permanent memory.

MIDS: *-internal control-* equalizer to remove mid frequencies that can be excessive when connecting the pedal to a guitar amplifier.

Connections

OUTPUT: Pedal output, can be connected to a guitar/bass amplifier or directly to a console line.

INPUT: Input for guitar or other instrument. Whatever is connected here will go directly to the output mixed with the sound of the beats.

MIDI/SYNC: This TRS connector serves as a MIDI input or clock input for sync. The BEAT automatically detects a connection and disables the internal tempo. See the manual for how to configure the pedal according to the connection type (Default: MIDI).

More functions

BANK CHANGE: When you turn the Beat on, the pedal is in the last selected bank, and indicates this by flashing the PLAY and TAP LEDs (one flash for bank A, two for bank B, etc.).

To change banks, simply turn the BEAT/BANK knob to the desired position while holding down the REC button. Releasing the REC button confirms the action and the pedal will load all the beats and their sounds from the chosen bank, and indicate this again by flashing the PLAY and TAP LEDs.

TIME SIGNATURE: Beats can have any of the following time signatures and lengths. To change the time signature of the selected beat, hold REC and turn the SAMPLE control to the corresponding position:

СО	4/4	2 bars
CL	7/4	2 bars
СВ	6/4	2 bars
НН	5/4	2 bars
TM	9/8	1 bar
RS	12/8 swing	2 bars
SD	7/8 swing	2 bars
BD	6/8 swing	2 bars

SAVE THE BEATS: In order not to lose the rhythms you have created or changes you have made, whether to the beat, pitch of a sample, etc, you must make sure to save them in the pedal's permanent memory.

To do this, simply press REC while holding PLAY. The PLAY and REC LEDs will begin to blink alternately, waiting for confirmation (by pressing REC again), or cancellation (by pressing PLAY).

ATTENTION: if you make a bank change without having saved the rhythms, the changes will be lost just as if you disconnected the pedal.

METRONOME(CLICK): If the selected beat is empty (no sound was recorded) it will automatically play back with the internal metronome sound, even if REC mode is not activated.

With REC mode active, the metronome can be enabled or disabled by tapping the TAP button while holding the PLAY button.

Count-in: To start a beat but with a one-bar click pre-count, press PLAY and, without releasing it, press TAP once. Releasing the PLAY button will start the count-in to give way to the selected beat.

NOTE REPEAT: If TAP is held down, notes will repeat rhythmically in quarter-note intervals, except when the pedal is externally synchronized or when TEMPO LOCK is enabled. In such cases, the BPM knob will select the repeat rate from 16th notes (in the minimum position) to half notes (in the maximum position)

LIVE MODE

This mode is intended for live playing and overrides all the recording and joystick functions. To activate it, connect the pedal to 9v power while holding down the PLAY button.

TAP TEMPO: In this mode, simply tapping 3 (or more) quarter notes on the TAP button will set the tempo to the desired speed.

TEMPO LOCK: For performance safety, the BPM knob will only set the tempo if you turn it while holding down the PLAY button.

NEXT/PREVIOUS: During performance, you can use the buttons to skip to the next or previous beat. To do this, while holding down the PLAY button, tap the TAP button once (1) or twice (2) to tell the pedal to skip forward (i.e. from beat 1 to 2) or backward, respectively. The action will be performed at the end of the beat, after the PLAY button is released.

ALIASING: The MOD knob works freely as a control for the Aliasing effect.

Advanced

JOYSTICK MODE

In this mode the pedal becomes a trigger for individual sounds, and overrides all the rhythm and recording functions.

To activate it, connect the pedal to the 9v power supply while holding down the TAP button.

The TAP button triggers the sound selected in SAMPLE, as normal, and respecting the pitch that was set in the selected BEAT/BANK.

Additionally, the PLAY button always triggers the KICK DRUM sound.

If the MIDI connection is used, sounds can be triggered from any device through it, using channel 10 and according to the General MIDI sound map.

FACTORY RESET

You can return the pedal to the original configuration and recover the factory preset rhythms.

To do this, connect the 9V power supply while holding down the PLAY and TAP buttons. The LEDs will begin to flash alternately, indicating that they are waiting for user action. There are two options:

RESTORE PRESETS: restores the pedal to the factory settings with all the original rhythms. To confirm the action, hold PLAY and REC for 5 seconds.

FULL RESET: all the rhythms are blank, ideal for starting to create new rhythms from scratch. To confirm the action, hold TAP and REC for 5 seconds.

These RESETs can be done as many times as necessary.

PEDAL CONFIG

Various pedal usage options can be modified in the PEDAL CONFIG mode.

To activate this mode, hold REC for a few seconds while connecting the pedal power.

The SAMPLE knob is used to select the option you wish to configure. The right LED indicates that the current state of the option is active, and the left LED indicates that it is inactive. Pressing the right or left button selects whether the option is active or inactive.

To confirm the changes, hold REC for a few seconds. If you do not wish to modify anything, disconnect the pedal from the power supply and the changes will be discarded.

CONFIGURATION OPTIONS

BD	MIDI IN: activates the MIDI connection. Inactive uses Clock pulses (Default ON)	
SD	EXPERT MODE: activates the EXPERT mode	
RS	TEMPO LOCK: activates the TEMPO LOCK	
TM	LIVE MODE LOCK: the Beat always starts as LIVE mode	
НН	CLOCK DIVISION: the SYNC clock runs in eighth notes (inactive) or sixteenth	
	notes (active)	
СВ	HIGH SPEED CLOCK: the SYNC clock runs at 24 beats per quarter note (24ppqn)	
СР	ENABLE MIDI NOTES: accept note triggering via MIDI in Normal mode	
СО	DISABLE MIDI TRANSPORT: do not receive Start/Stop/Continue commands via	
	MIDI	

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EXPERT MODE

The EXPERT mode enables some advanced BEAT functions that use the PLAY button combination. To enable/disable it, see the Pedal Configuration section. The functions available in this mode are as follows.

ERASE BEAT: in REC mode, it is possible to erase the current rhythm completely to start from scratch. To do this, hold PLAY and TAP for 5 seconds.

COPY/PASTE: Also in REC mode, you can copy one of the beats to another position in the same bank. To do this, choose the beat you want to copy (with the BEAT knob). Then, while holding down the PLAY button, turn the BEAT knob to the rhythm number you want to paste. When you release PLAY, the beat will be copied, including its sound and time signature parameters, to the desired number. If you change your mind once you have started the action, simply move the BEAT knob back to the starting point to cancel it.

PRESET TEMPOS: It is possible to choose exact BPM times by combining the PLAY button with the SAMPLE knob. The tempos increase by 10 BPM, starting from the slowest of 80 BPM located in the BD position, up to 150 BPM in the CO position.

If you keep pressing PLAY after moving SAMPLE. it is possible to add 1 BPM increments by tapping the TAP button.

This function is also active in LIVE mode.

Use and care of the pedal

- Use only regulated 9v dc adapter, with negative center polarity. In no way should be connected to 220V or adapters of other kinds.
- · Avoid dropping, hitting or exposing the pedal to extremes of humidity or temperature.
- · To clean the pedal, use a dry cloth.
- Do not remove the protective silicone legs, they protect the pedal from shocks and external pressures.

Problems and solutions

• The LED lights up but there is no sound:

Make sure the instrument is properly connected to the INPUT jack, and the amplifier to the OUTPUT jack.

· No LEDs light up:

The pedal is not connected to a working DC adapter.

· The effect is too weak, or the sound is unduly saturated:

Use an appropriate DC adapter. If the pedal is connected in a loop, check its send and return levels.

• The pedal makes a low pitched hum:

Feed the pedal with a **regulated** dc adapter of sufficient amperage

• The sound cuts out intermittently:

Check the correct condition of the cables.

• The sound has a digital distortion:

Note that the Aliasing effect may be applied (see its use in the Controls section)

Terms of warranty

- The warranty is only valid for the original owner for 2 years from the date of purchase.
- The warranty must be requested on the trade where the pedal was acquired.
- DEDALO ensures that the pedal is free from defects in materials and workmanship.
- DEDALO will choose to repair or replace any faulty piece on the pedal at its sole option.
- · Failures due to accident or misuse are not covered in the warranty.
- DEDALO is not responsible for any loss or damage the user may suffer as a result of using the pedal.
- · Power adapter not included in the warranty.
- In this pedal there is no piece that could be repaired by the user. The repair or modification by personnel not authorized by DEDALO will void the warranty.
- · Shipping or other fees that may arise, are not covered by warranty

Register your pedal www.dedalofx.com.ar/register



APPENDIX

Technical specifications

Model 2024 - BEAT-2

Input impedance: 1Mohm

Power supply: DC 9v center negative (minimum 100mA)

Power consumption: 90mA at 9v DC Dimensions: 12cm x 9.4cm x 5.4cm

Weight: 480gr

Digital samples at 8bit 31.250Khz

MIDI input: TRS compatible with Type A and Type B (automatic)

Sync input: clock signal at the Tip / ground at the Sleeve

Trimpots:

RVI: Mids (mid frequencies cut at 2.5Khz)