The FLOORDRUM Mini

Hello

Congratulations for your new " FLOORDRUM MINI "
I hope you will have a lot of fun with this innovative percussion system. This will give some extra punch and interest to your solo ore duo performances.
Sure, like any other musical instrument, it will need a bit of trial and learning to get used to it in the beginning but in the end it will get easier and easier and maybe get second nature to you.
Start with simple left right beat and build up from there.

PLEASE use a blanket with medium thickness under your Footdrum . It should be big enough also to containe the stoole so nothing will slip away.

To start first connect when possible to a PA system (not a Guitar-Amp) with a neutral settings .
You can use a little bit of reverb that sounds nice if you like.
Use the kickdrum to fine tune the gain of the mixer though you won't get any distortion.

- - YOUR SHOES ARE YOUR DRUMSTISCKS - - -

Use shoes that aren't too light and soft and which have a nice flat sole not rounded at the borders.
You can tweak the sensivity setting to get the right attack.
Use a stool high enough to be in a cofortable position.
Normaly higher is better .

Make some trial to see wich works best for you

It is very useful to understand the integrated Soundmodule and the Android-App in depth because depending on your shoes , your weight , the stool and maybe the ground you could have to make some small adjustments to the settings to prevent false triggering of the pads.
Some slight triggering of the other pads can sound also good because it enriches the whole sound and make's it sound more natural.
When you hit the bass ore snare pad it's OK when you hear also a bit of hi-hat ore cymbals.
It is always probable to have some slight triggering of the

heel pads when you hit one of the Toe pads because moving your feet that rests on the heel pad it may also cause triggering depending on the treashold value and your shoes and the positionof your feet.
I suggest putting sounds on the heelpads that would sound good together with maybe the kick ore snare .
The best for that are hihat , Tambourine ore shaker.
Try also to position your foot a bit more forward ore maybe lift it away from the heel pad if you hit the kick ore snare .

Getting started

To switch on the unit simply connect the provided 5V DC power adapter with the USB CABLE to the USB input on the unit.
Feel free to use also a Powerbank battery ore any other kind of USB alimentation

- IMPORTANT -

don't use voltage higher then 5 V

- - THIS WOULD DAMAGE THE ELECTONICS - -

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Connect a normal mono jack to one of the outputs on the front or even better ; use both outputs for a complete stereo signal and more output gain.
If you go into separat channels of your mixer you can use the PAN function to spread out the stereo signal .

Use the footswitches to change between stored kits
the led's will indicate in wich set you have loaded.

1 - 4 : fixed led

5 - 8 : slow flashing led

9 - 12 : fast flashing led

The first 5 kits are set by me in this way:

1: Normal Kit with Kick on the right side and snare on the left and in the middle (Pad 2) a Crash
On the left heel pad you have a multi layer -hihat
On the right heel pad you have a second snare for rolls.
2: similar as Kit 1 but with different snare and kick and open and closed hihat on the heel pads
3: Soft Kit with Kick on the right side and brush snare on the left .On the Big heel pad you have a Tambourin sound and in the middle (Pad 2) a Ride.
4: Percussion Kit – Congas , cajon and sandshaker
5:kit to play with only one foot only
here you have the kick on Pad 2 and the snare on the big heel pad - on pad 3 a crash and on 1 a Ride
There are even more kit's you can store from 5 to 8 flashing slow and then from 9 to 12 flashing fast

Feel Free to change any settings I made
Try out what fits best for you and maybe finetune the settings.

To change stored settings please downloade the Floordrum App on Android store (for now only the Android version is

available , sorry)

There are 2 versions available on the Appstore .
Please Choose the version “ Floordrum “
The “Floordrum EVO “ App won't work with your model.

Once downloaded the App on your Android phone or tablet search and pair the Bluetooth device that ends with HC-06 .
(it won't show up as Floordrum) Use Pin 1234 to pair.
Now you're ready to open the Floordrum App and connect to Your Floordrum Mini .
Click on the connect button and connect to the device that is named HC-06 ....
Now you should be connected to your device and be ready to change every parameter of the settings you want .
It could be possible that other bluetooth devices like smartwatches would like to interfere with the connection , if you encounter problemsso please turn them off or put them farer away.

Now simply hit the pad you want to set up (check the number you see on the apps display to be shure to act on the exact one).
The pads are numbered from 1 to 5 from upper left to right
The left heel pad is 4 and the right 5

You can also click repetately on the apps buttons to toggle between all pads.
Example: touch several times volume and you will see that it goes from the pad you have selected to the next one up to pad 5 and the restart from 1

Description of controls:

Every change in any kind of parameter will be stored immediately without any further action. The settings are automatically saved
---- No extra save button to press ---

Drum Kit

Use the Up - Down Footswitches to select
between the 12 stored drum kits.
All kits can be modified by the user.
All settings are saved permanently but can be edited at any time

INSTRUMENT

To view or edit an instrument allocated to a given pad press the *instrument* button
and assign any instrument from the 40 available sounds .

LEVEL
To adjust the volume of a pad enter into *level mode* by pressing the LEVEL button.
To edit the volume use the Footswitches
The volume values range from 0 to 30.
note: each drumkit will store its own pad volume parameters so you can set different pad volumes for different drumkits.

SENS
The sensitivity of each pad can be adjusted from 0 (no sensitivity) to 15 (maximum sensitivity).
A normal value would be some around 10 . The snares are composed from 4 different samples
and senivity affects very much the behaviour of the snares.
So if you don't want the sample 4 to be triggered turn down sensivity and raise eventualy the volume

THRESH

Another parameter affecting "sensitivity" of the pads is the threshold for detecting pad strokes. Pad strokes weaker than the set pad threshold will not trigger any sound. Setting Too low threshold value will lead to auto-triggering sounds from the pad or via crosstalk between different pads.

It is very important to set the optimum threshold for each pad. Very loud speakers (especially subwoofer) could trigger eventually a sound if placed to near to the unit.

In case of problems rais the value up to 30.

note: *different pads may need different thresholds not only because of player habit, but also due to construction of the pads which are never perfectly identical. Each drumkit will store its own pad threshold values so you can set different pad thresholds for different drumkits, for instance for different users.*

CURVE

The "dynamics" of the floordrum is controlled by both the absolute pad sensitivity (set in the SENS mode) and the *sensitivity curve* set in curve-mode. The sensitivity curve describes how the "speed" (or force) of a pad hit/stroke determines the volume of the reproduced instrument stroke. The module features 5 sensitivity curves: linear, exponential, logarithmic and loudness and Flat .

The most "natural" curve is the L*inear* response curve, which means that reproduced instrument sound is proportional to the stroke/hit "speed" (force). This allows a quite "natural" and "precise" control of the instrument response.

The E*xponential* curve produces an instrument dynamic response that weakens the response for slow/weak/delicate strokes and exponentially amplifies it more for faster/stronger strokes when compared to the linear curve, therefore accentuating the stronger strokes and weakening the more delicate strokes.

The L*ogarithmic* curve produces a more "prompt" instrument response also for weaker strokes, while keeping a strong response for the harder

hits/strokes. This curve is useful when delicate strokes are not needed.

The L*oudness* curve produces a response nearly independent on stroke "speed" (force) with just an overall prompt response even for weak strokes and just minor increase of volume for the strongest strokes.

The *Flat* Curve has dynamics turned off and triggers the pad always on 75% velocity.
This means that dynamic is completeley turned of .
This curve can result problematic if you have slight problems with crosstalk due to, maybe your foot lying on 2 pads.
This could cause triggering of the heel-pad when you hit the Toe pads because you move your feet on the heel pad and this could eventualy cause a very slight signal but if the curve is on Flat it will always be reproduced very loud.

note: Each drumkit will store its own pad sensitivity curve values so you can set different pad sensitivity curves for different drumkits.

SPECIAL Hi-Hat FUNCTION

The HiHat is a very special piece of kit because it can sound open or closed and also has a special sound when it changes from open to closed.
We managed to simulate this behavior using the solution to dedicate one pad to the open hihat and one other to the closed one.
Everytime the closed hihat will be hit right after the open one the closing sound of the hihat will be reproduced.
This very special function works between every pad of your drum so feel free to find the best solution for you.
Please note that in each kit there can be only 1 open and 1 closed hihat.
In the case the function doesen't work properley it will depend on the fact that there is also another Hihat assigned to one of the pads.
We consider closed HI-HAT only the 2 and 3 . So only these 2 sounds will close the open Hihat (Hihat 6).

Technical specifications

Power

5V DC >=1000 mA (min 4.5 V DC max 5.5 V DC) note: you can use powerbank…most will work.

note: The module is not protected for reverse polarization so be careful to set the right polarity if you use unknown power supplies. Batteries might also be used but be careful not to exceed the allowed range of voltages 4.5V to 5.5V.

Audio output

The Stereo signal is split into 2 separate mono outputs – use both for best sound and volume

Audio latency

aprox. 5 milliseconds

SOUNDLIST OF THE INTERNAL SOUNDMODULE

KICK 01
KICK 02
KICK 03
KICK 04
KICK 05
SNARE 01 (Yamaha Steel)
SNARE 02 (Ludwig Wood)
SNARE 03 (Ludwig Acrolite)
SNARE 04 (Brush Snare)
SNARE 05 (Yamaha Custom Birch)
SNARE 06 (Ludwig Acrolite very tight)
SNARE 07 (Brush Drag-Jazz)
HI-HAT 01 (Closing sound)
HI-HAT 02 (Shoulder) - works with hihat closing
HI-HAT 03 (Tip) - works with hihat closing
HI-HAT 04 (Multilayer from closed to open)
HI-HAT 05 (open to close)
HI-HAT 06 (wide open) works in combination with hihat 2 and 3
TOM 01 12”
TOM 02 16”
RIDE 01 (2 Layer)
RIDE 02
CRASH & KICK
CRASH
CRASH CHOKED

"SNARE RIM 1"
"SNARE RIM 2"
"CAJON BASS"
"CAJON SLAP"
"TAMBOURINE"
"TAMBOURINE HIT"
"SAND SHAKER",
"SAND SHAKER HIT"
"CONGA BASS"
"CONGA HIGH"
"CONGA SLAP"
"CONGA MUTE"
"CABASA SHORT"
"CABASA LONG"
"COW BELL"
"MARACAS"
"HAND CLAP"
"CHIMES"
"BONGO LOW"
"BONGO HIGH"