

“Music gives a soul to the universe, wings to the mind,
flight to the imagination and life to everything.”

- PLATO

**THE MIDI JACKET IS NOT A FASHION TOY,
IT IS FASHION AND A PROFESSIONAL
QUALITY MUSICAL INSTRUMENT.
AS SUCH, IT OFFERS A WIDE FUNCTIONALITY
DESIGNED FOR PERFORMERS, MUSICIANS,
PRODUCERS, ENGINEERS, VJS,
DIGITAL ARTISTS, VIDEO EDITORS AND MANY
MORE TALENTED GROUPS.**

**This document covers the basic functionality and MIDI operations and modes.*

WELCOME MACHINES

Dear Machine,

Thank you for choosing the MJDK1 wearable musical instrument. This garment is tailor made by engineers and designers working for almost 3 years. MJDK1 is designed to be beautiful, practical, intuitive and to provide hours of creative pleasure. To get the most out of your new MJDK1, be sure to read this user's manual carefully.

For an even deeper understanding and the latest pro tips, please visit the MJDK1 community website <http://midijacket.cc/community>. You can also email our creative director directly at antonio@machina.cc

MJDK1

About this manual

This manual is designed to be easy to understand by our beloved backers. If you have any observations on making it better please let us know. Feedback is always welcome.

Don't be afraid of playing around and exploring. You can always come back to this manual at a later stage.

What's in the CASE?

Check that the following items are included when you open the case: MJDK1, USB Cable, 5V battery (*please charge before use*).



Murlitzer Side Man



Vox Percussion King



Ace R-1 Rhythm Ace



Murlitzer Electronic Swingin' Rhythm



Kay R-12 Rhythmer



Conn Min-O-Matic Rhythm



Univox SR-55 Super Rhythmer



Maestro Rhythm King MRK-4



Maestro Rhythm King MRK-2



Nomad Rhythm Maker 12



King Beat 7



Thomas Band Master 55



Kenwood KR-b170



PAIA Drummer Boy



Univox SR-95



Roland Rhythm TR-55



Ace Tone Rhythms Ace FR-1



Seeburg Select-A-Rhythm



Maestro Rhythm Jester



Schober Dynabeat



Roland Rhythm TR-77



Olson Rhythm Instrument X-81



Olson Rhythm Beat XX-100



Ace Tone Rhythm Ace FR-3



Maestro Rhythm'n Sound for Guitar (G2)



Time Tuner 16 Rhythm Selector



Gemini Beat Box R-777



Teac Enterprise Rhythm-8



Roland Rhythm TR-330



Roland Rhythm Arranger (TR-66)



Bandmaster Powerhouse Rhythm Unit



PAIA Programmable Drum Set



Kent K-85



Columbia Rhythm Box CRB-90



Sears Rhythm-Matic II



Rhythmatic Electronic Rhythm Section



Univox Piper's Cub Rhythmer JR-5



Univox SR-120



EKO RhythMaker



Multivox Rhythm Ace FR-6M



Mattel Bee Gees Rhythm Machine



Roland CompuRhythm CR-6a



Roland CompuRhythm CR-7a



Electro Harmonix DRM16



Korg KPR-77



Casio PT-7



Roland TR-606 Drumatix



Korg Rhythm KR-55B



Schafer & Sons Electronic Drum System



ELI CompuRhythm CR-7030



Viscount PCM R64



PNTM



BOSS Dr. Rhythm DR-110



E-mu Systems, Inc. Drumulator



Roland Rhythm Plus PB-300



Sakata DPM-48



Panasonic Rhythm Machine



Roland CompuRhythm CR-8000



BOSS Dr. Rhythm DR-55



Casio VL-Tone (VL-1)



Roland TR-909



Roland TR-707



Roland TR-727



Roland TR-505



Linn LM-1 Drum Computer



LinnDrum



Linn 9000



Roland TR-808



Mattel Synsonics Drums



Roland TR-626



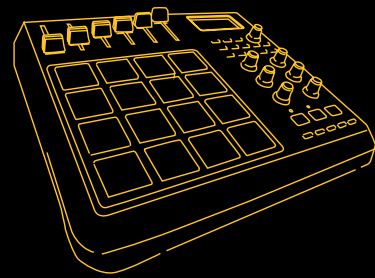
Sequential Circuits Drumtraks



Sequential Circuits Studio 440



iPad



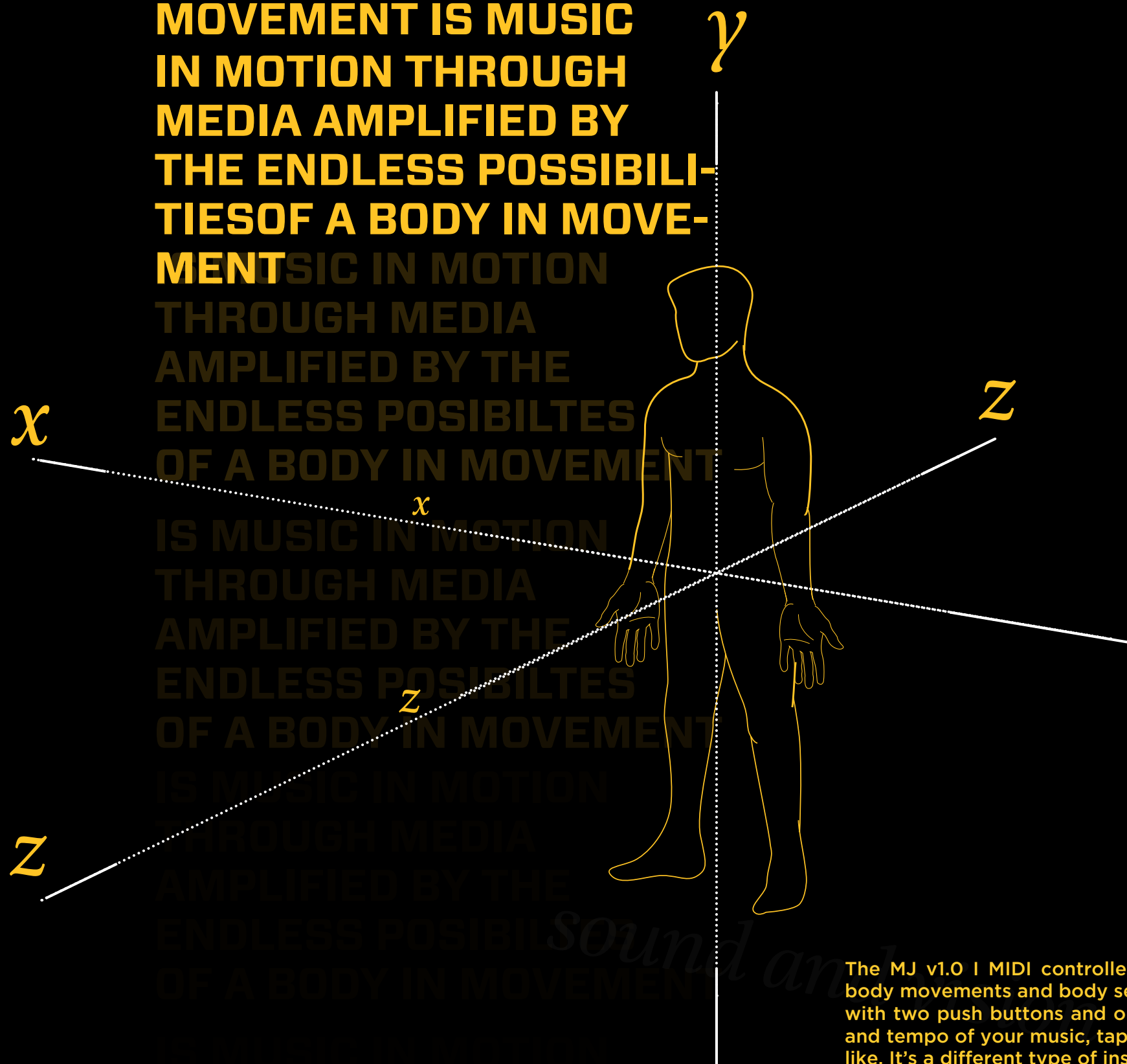
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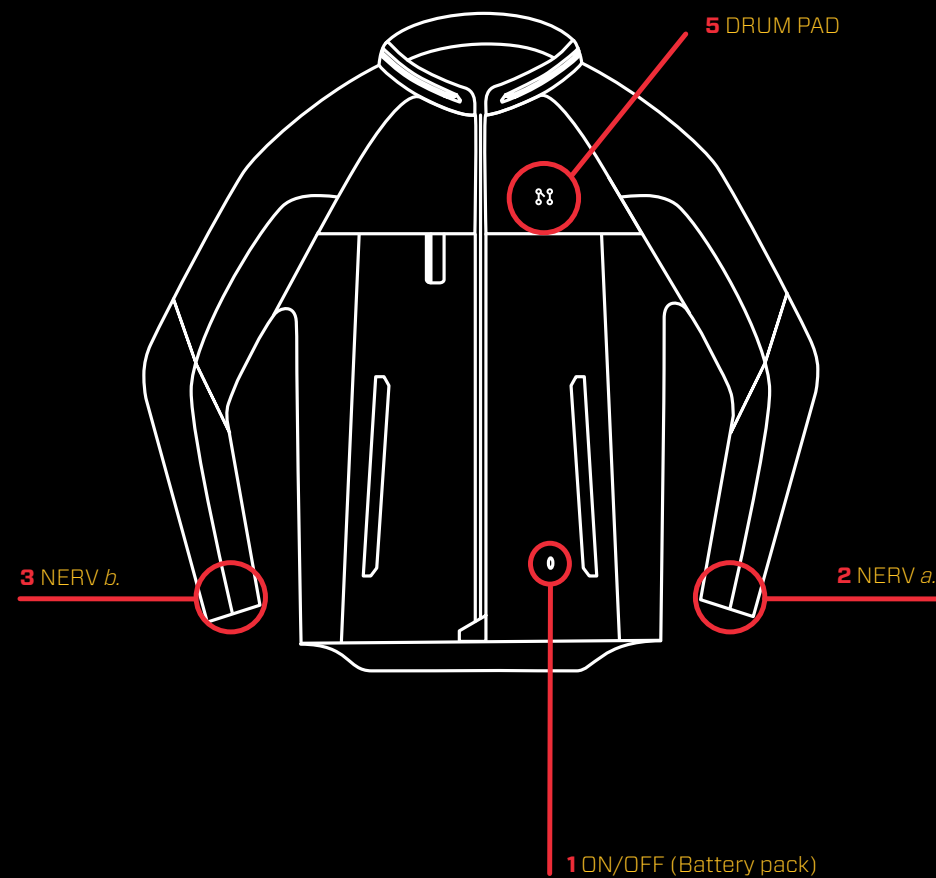
MIDI CONTROLLER + JACKET = **MIDI JACKET**

| TECHNOLOGY
| SPECS

MOVEMENT IS MUSIC
IN MOTION THROUGH
MEDIA AMPLIFIED BY
THE ENDLESS POSSIBILI-
TIES OF A BODY IN MOVE-
MENT



The MJ v1.0 | MIDI controller jacket allows a musician to create music through body movements and body sensors. It includes: an accelerometer, a gyroscope, with two push buttons and one piezo electric. Use your arms to raise the volume and tempo of your music, tap your chest to make sound, configure it however you like. It's a different type of instrument.



COMPONENTS

1 ON / OFF.

Press this button located in the battery to turn on your MIDI JACKET. To restart, press and hold this button for 5 or 6 seconds until your MIDI JACKET turns off, and, then press it again to turn it on. Status light: An indicator within the app lets you know the MIDI JACKET is turned on.

2 NERV *a.* / 3 NERV *b.*

Located at the end of the sleeves the NERVES have two buttons each and work in exactly the same way. Used independently, the buttons activate/deactivate the accelerometer and gyroscope sensors. However when used at the same time the buttons enable the user to switch between the jacket's different modes.

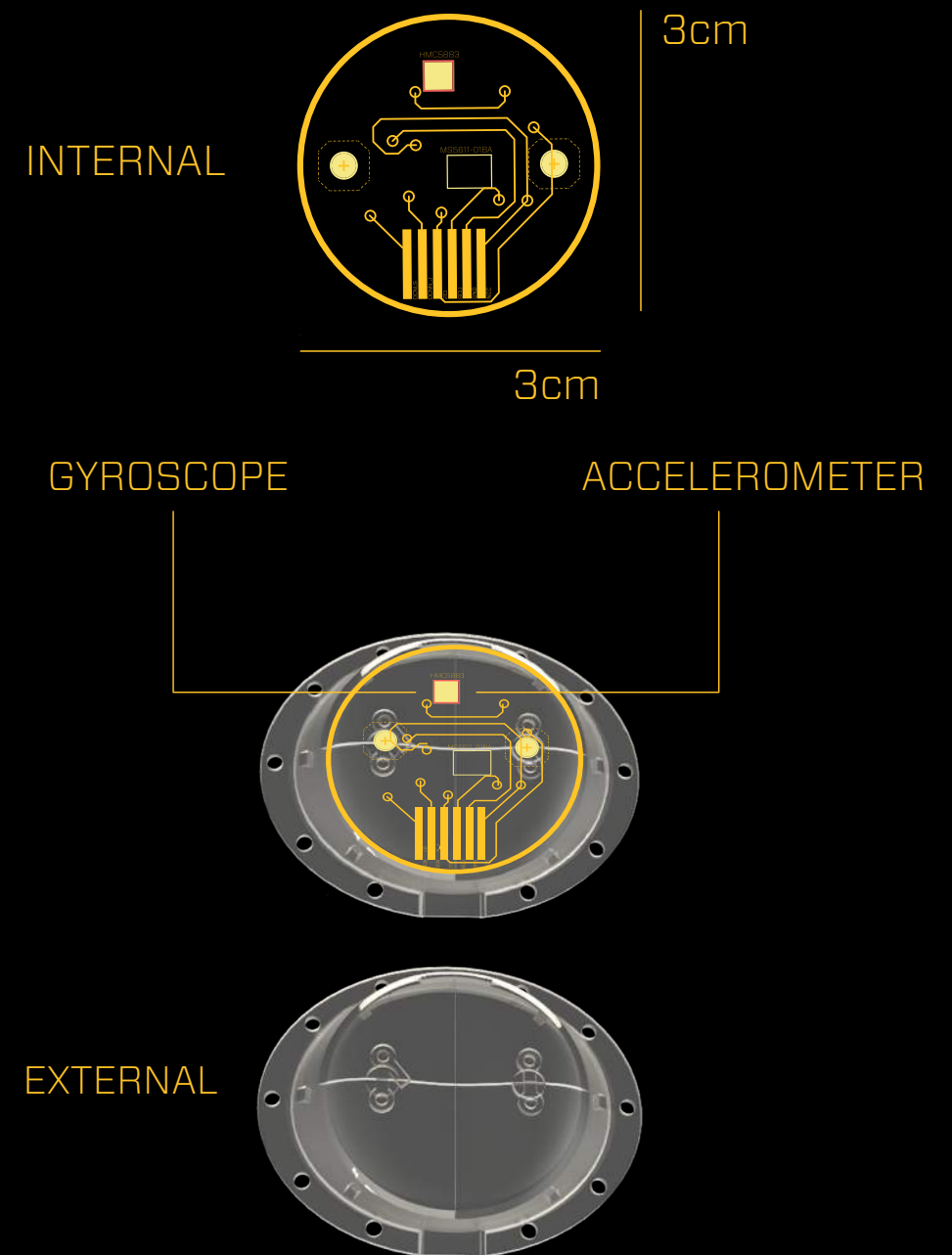
4 DRUMPAD.

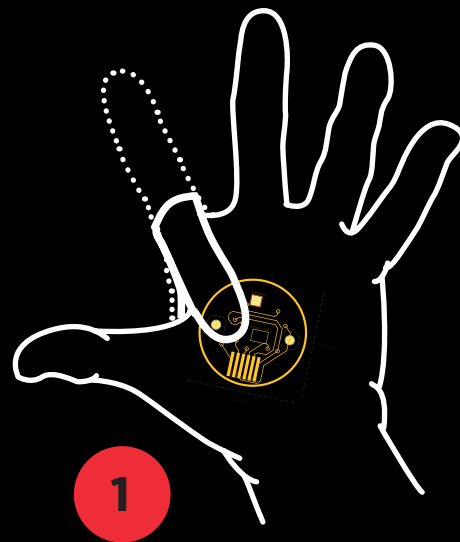
The drum pad is a small disc (5cm radius) that responds to a simple pad designed to activate sounds. The user can select a short track from inside the app. When the pad is tapped, the track will play immediately.

NERVES

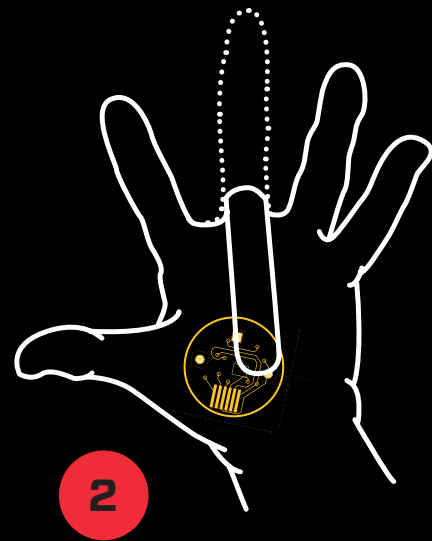
THE JACKET'S NERVES ARE KEY TO UNDERSTANDING THE MIDI JACKET. WORKING AS AN EXTENSION OF THE HUMAN BODY, NERVES IN THE JACKET SEND OUR MOVEMENTS THROUGH ELECTRICAL IMPULSES TO THE BRAIN (IN THIS CASE THE KER) WHICH ARE THEN PROCESSED AND SENT WIRELESSLY.

HIDDEN CONFORTABLY WITHIN THE SLEEVES, NERV A. & NERV B. ARE ACCEIBLE IN A MOMENTS NOTICE TO HELP THE USER HARNESS THE EXPRESIVNESS AND PRECISION THAT THE ARMS ARE THE MAIN TRIGERS FOR MANIPULATING SOUND





SINGLE CLICK
INDEX FINGER
GYROSCOPE

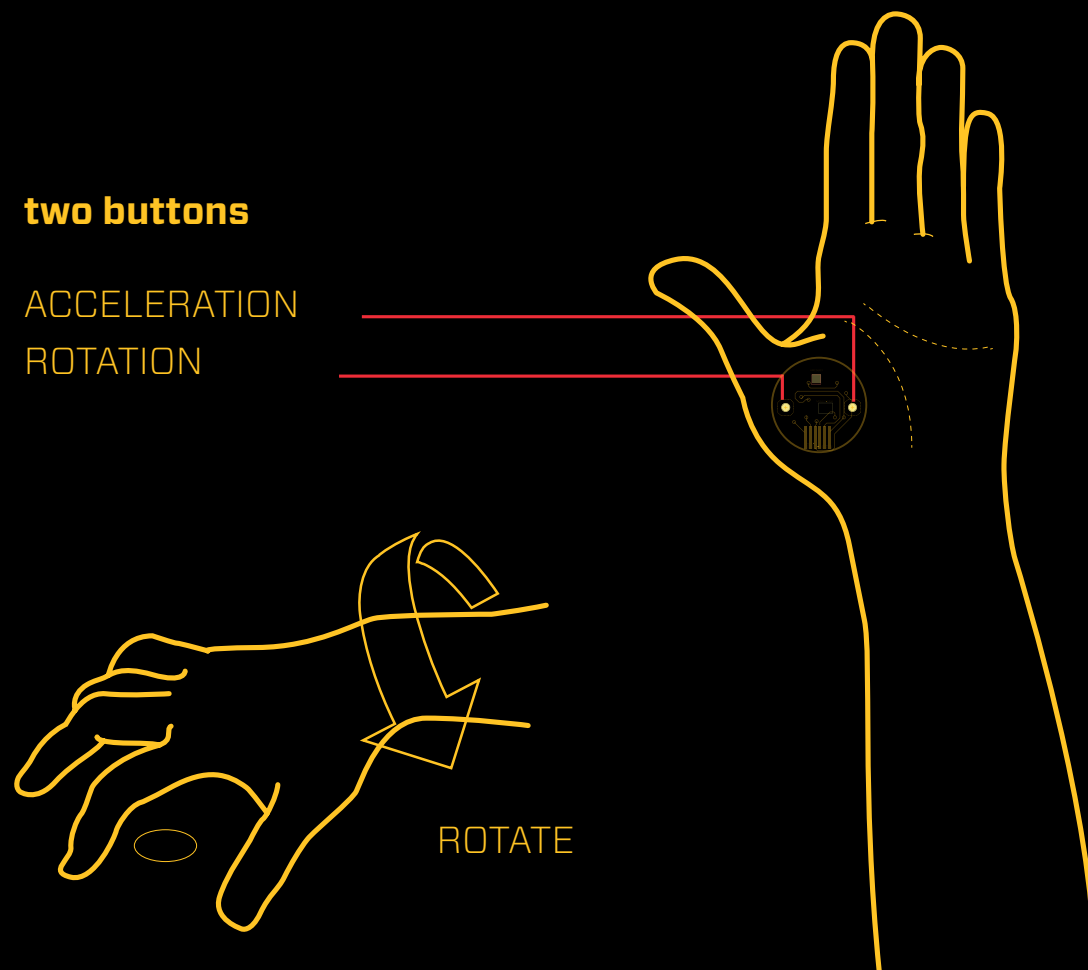


SINGLE CLICK
MIDDLE FINGER
ACCELEROMETER



1+2
DOUBLE CLICK
MODES

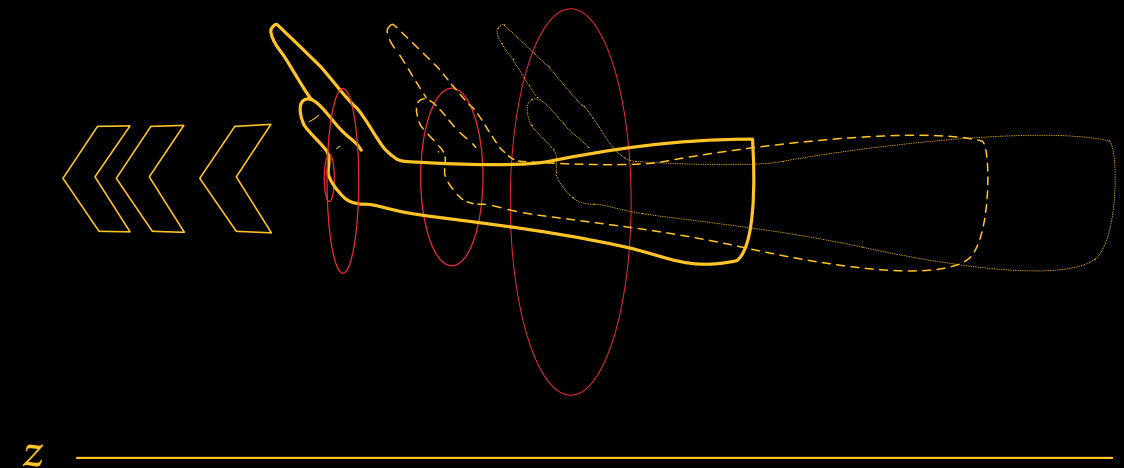
The gyroscopes and accelerometers do not send information all the time, since this would make it impossible to assign functionality to them in any software (like Ableton Live) and would consume your batteries quickly. Instead, the sensors can be deactivated by holding the mode button on each sleeve. This activates them and they will start sending data immediately.



GYROSCOPE

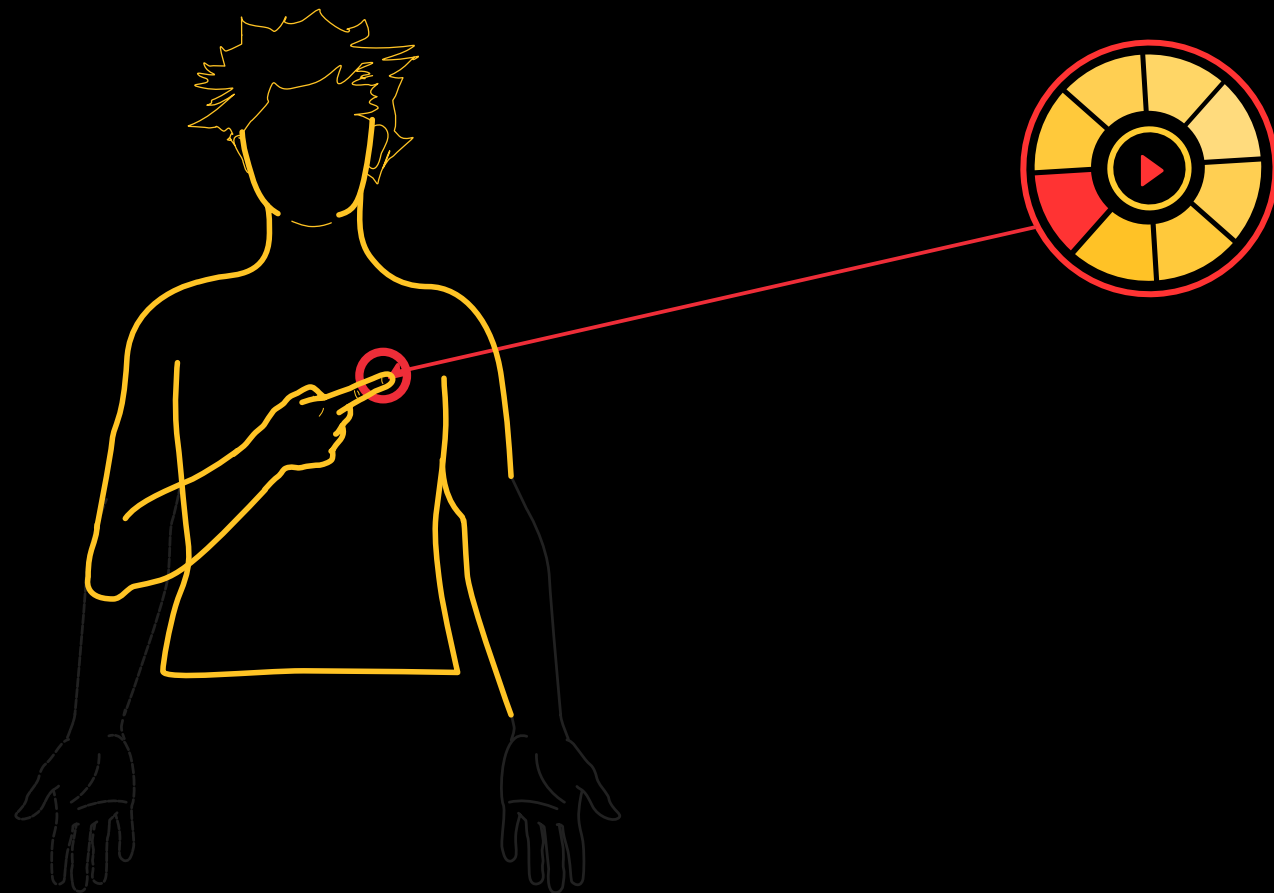
Once activated the the gyroscope can detect tiny movements from your wrist and locate altitude and velocity. Use it just like you would use a knob

ACCELEROMETER



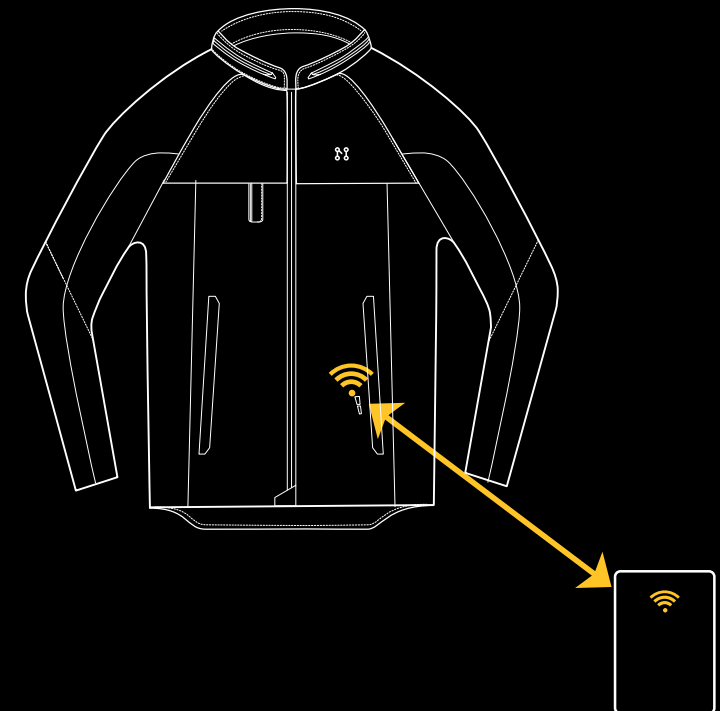
Once activated, the accelerometer will be extremely responsive to movements done on every axis, you can treat them as separate movements.

DRUMPAD



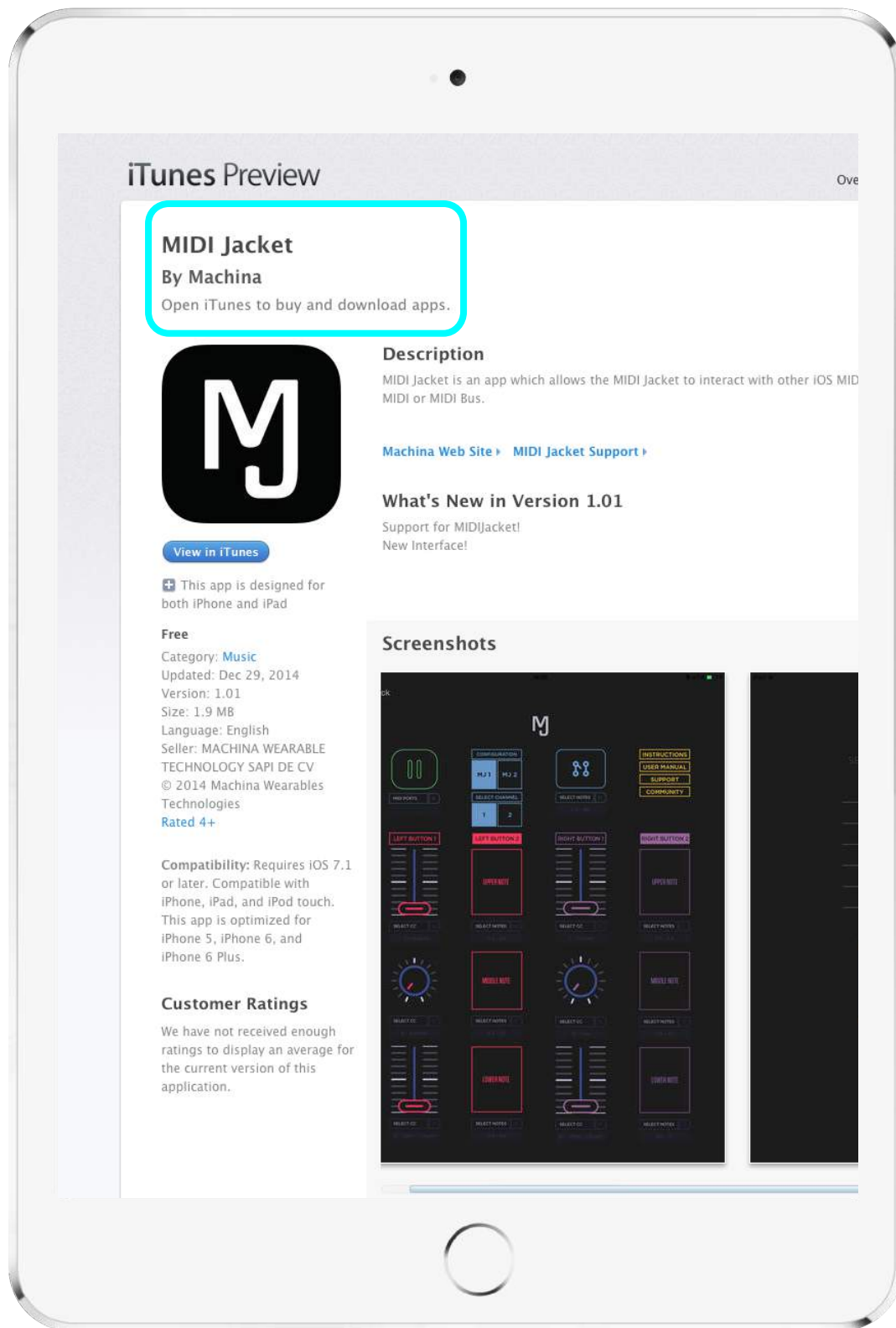
A simple pad designed to activate sounds. The user can select a short track from inside the app. When the pad is tapped, the track will play immediately.

PAIRING WITH MOBILE DEVICES



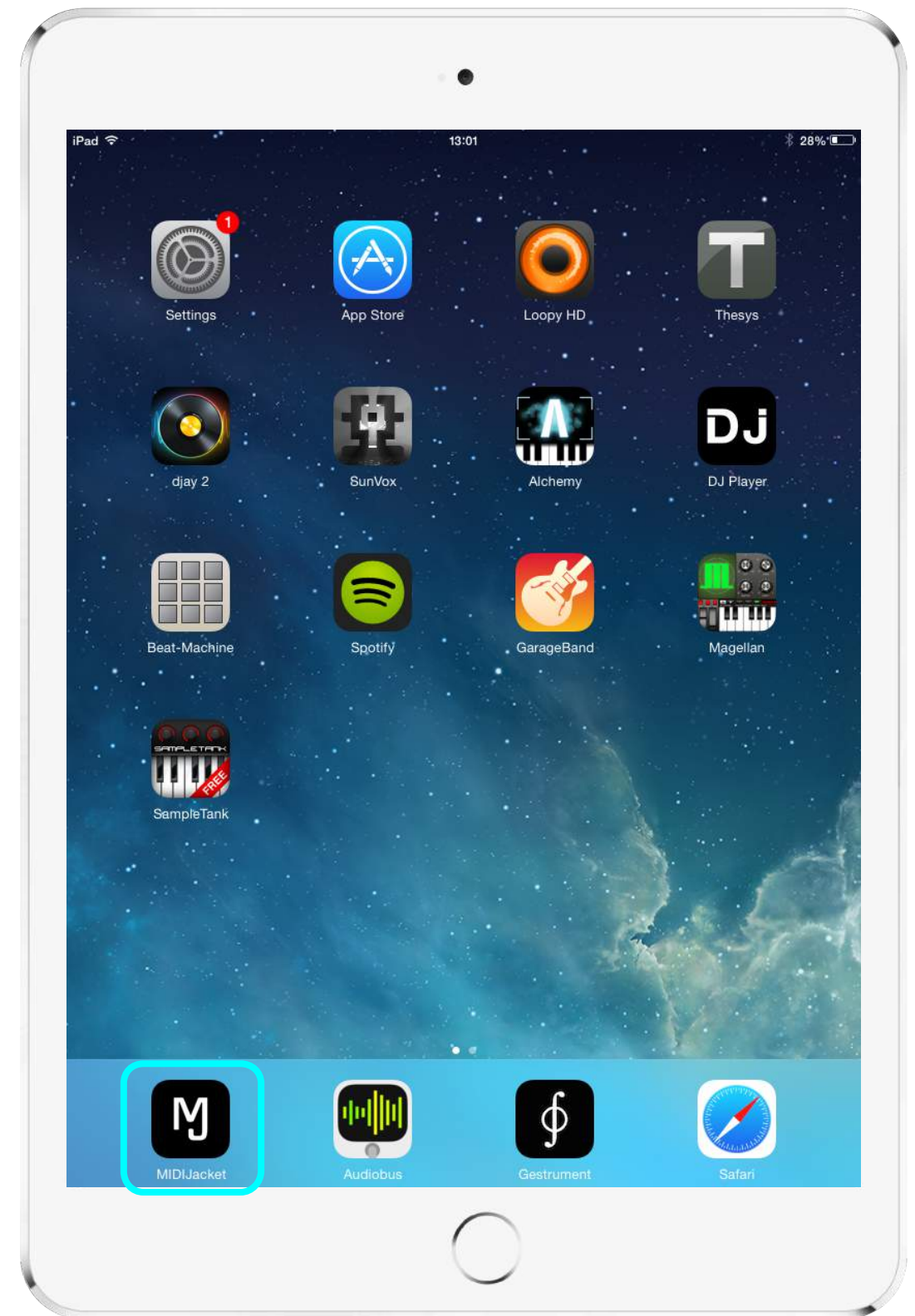
Connecting to mobile devices with the MIDI JACKET is very simple since the jacket works with Bluetooth. All you have to do is connect your device (iPad or tablet) to the MIDI Jacket's Bluetooth and you're ready to go. It should appear in your device as MIDI Jacket #.

| BEGINNERS GUIDE



STEP 1

Before you start using your MIDI Jacket, download from the App Store the [MIDI Jacket app](#).



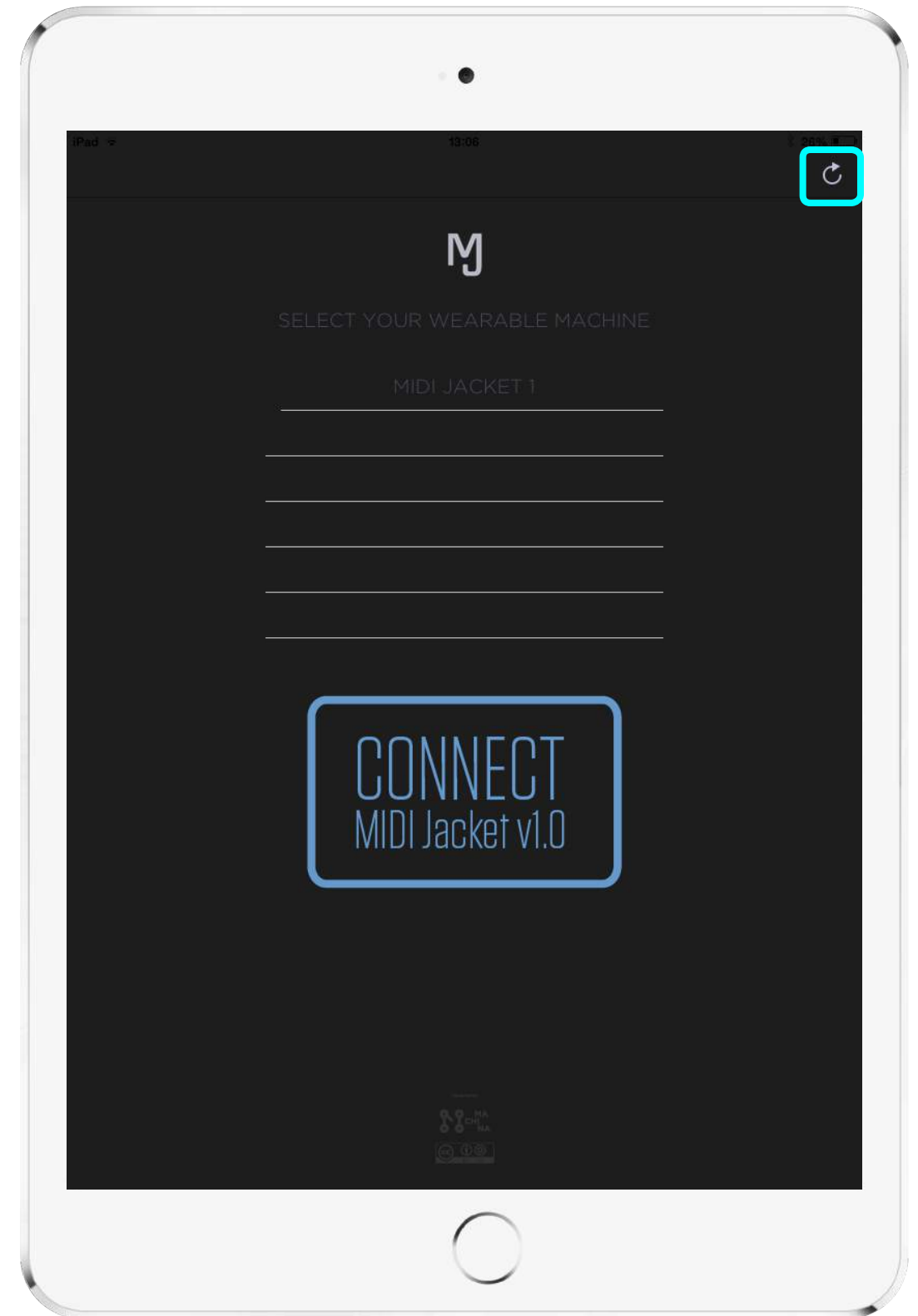
STEP 2

Once you download the MIDI Jacket app you are ready to power on your wearable device.



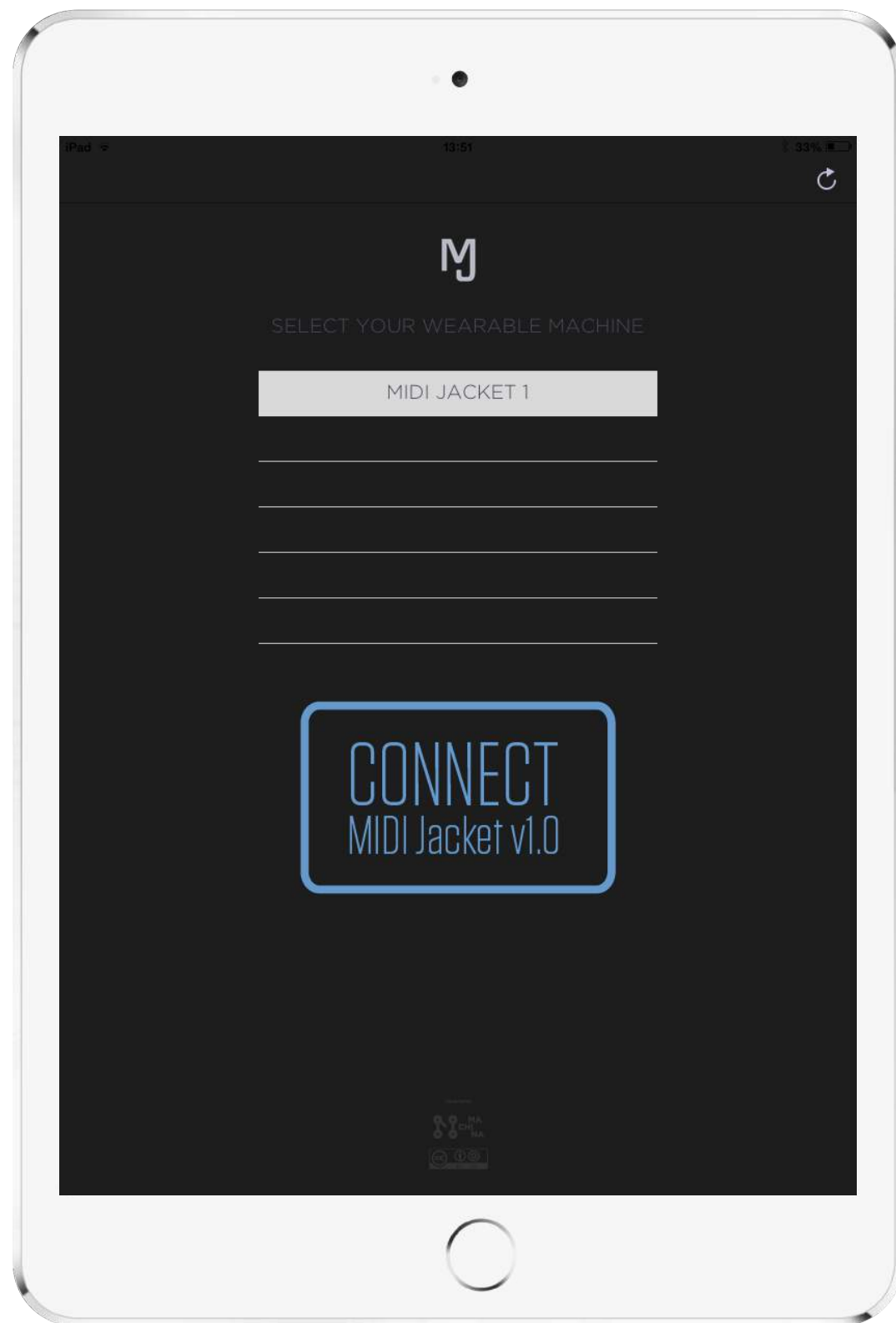
STEP 3

Turn on KER (*micro controller*) by pressing the top button twice. Once it's on it will turn red.



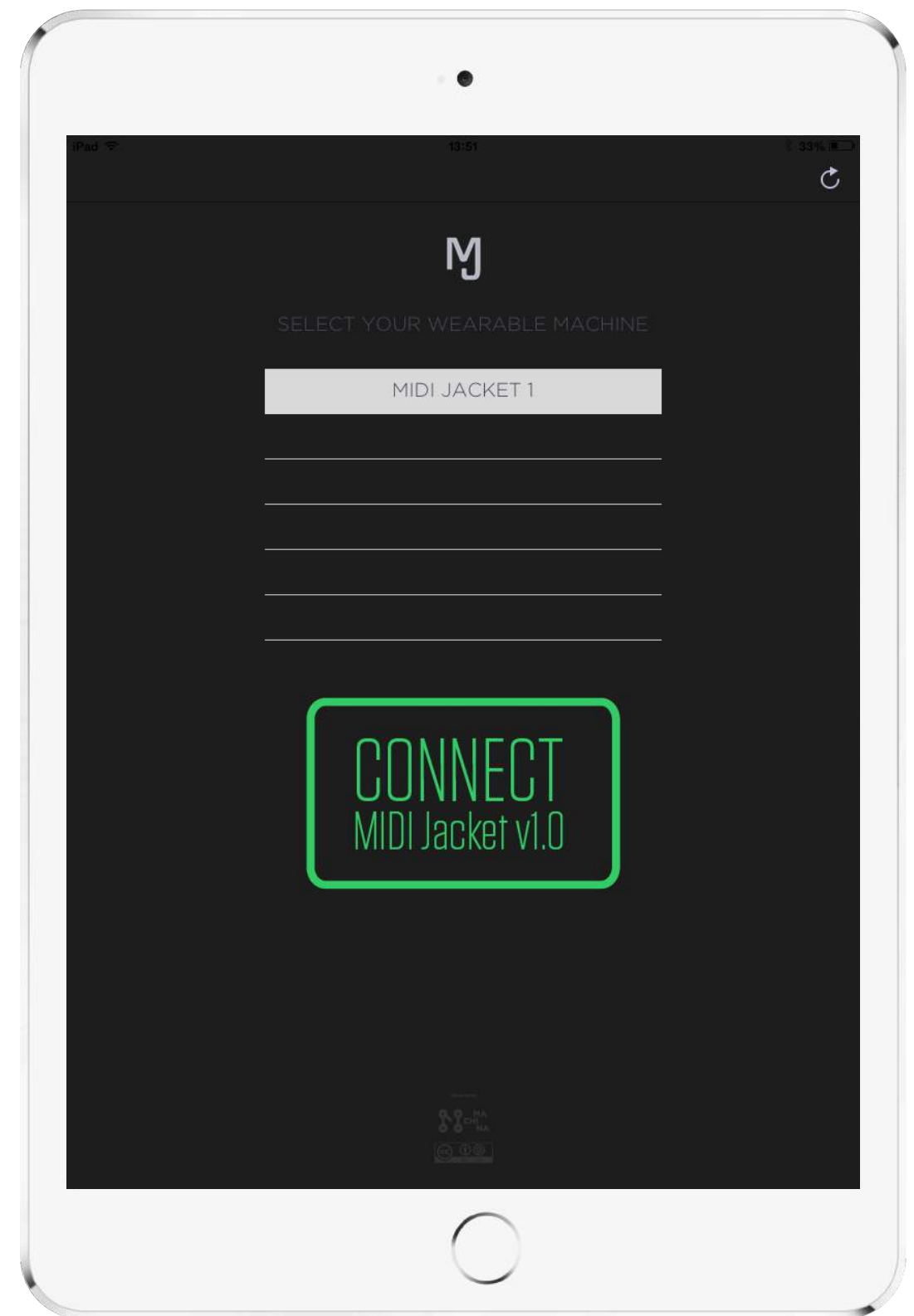
STEP 4

Click on the upper right hand arrow to refresh. After refreshed the name of your jacket will pop up.



STEP 5

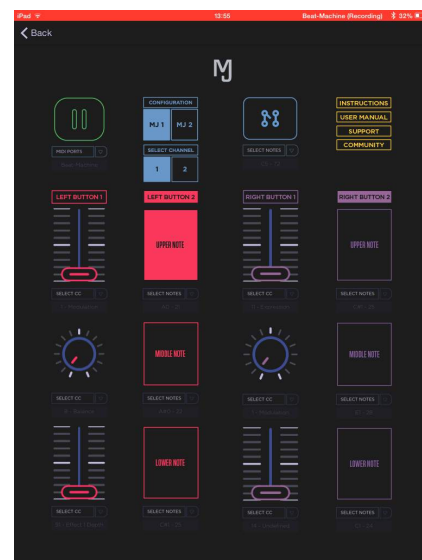
Click on MIDI Jacket v1.0 so that the MIDI Jacket app can recognize the jacket.



STEP 6

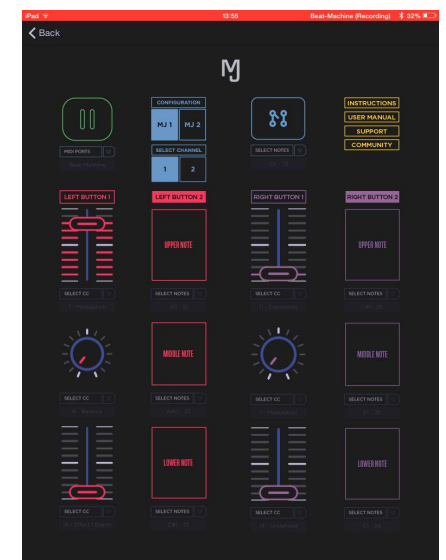
Once you have selected MIDI Jacket v1.0 click on CONNECT .

**Check on your KER. After clicking CONNECT it should turn from red to blue.*



BUTTON a

Button a triggers notes. To activate button a, click softly and let go.



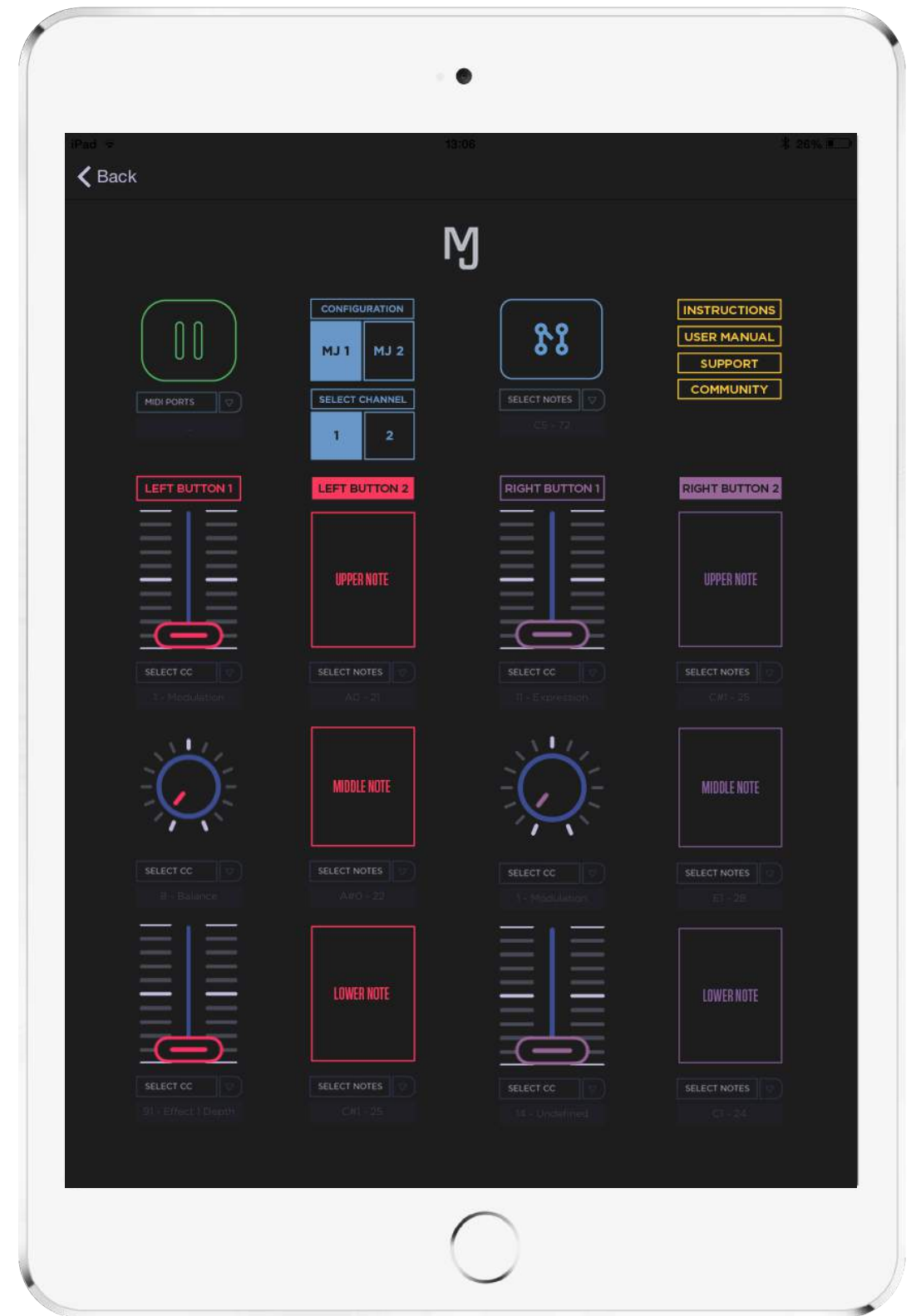
BUTTON b

Button b activates cc (*Control Change messages*). To activate button b, click softly, hold and move your arm up and down.

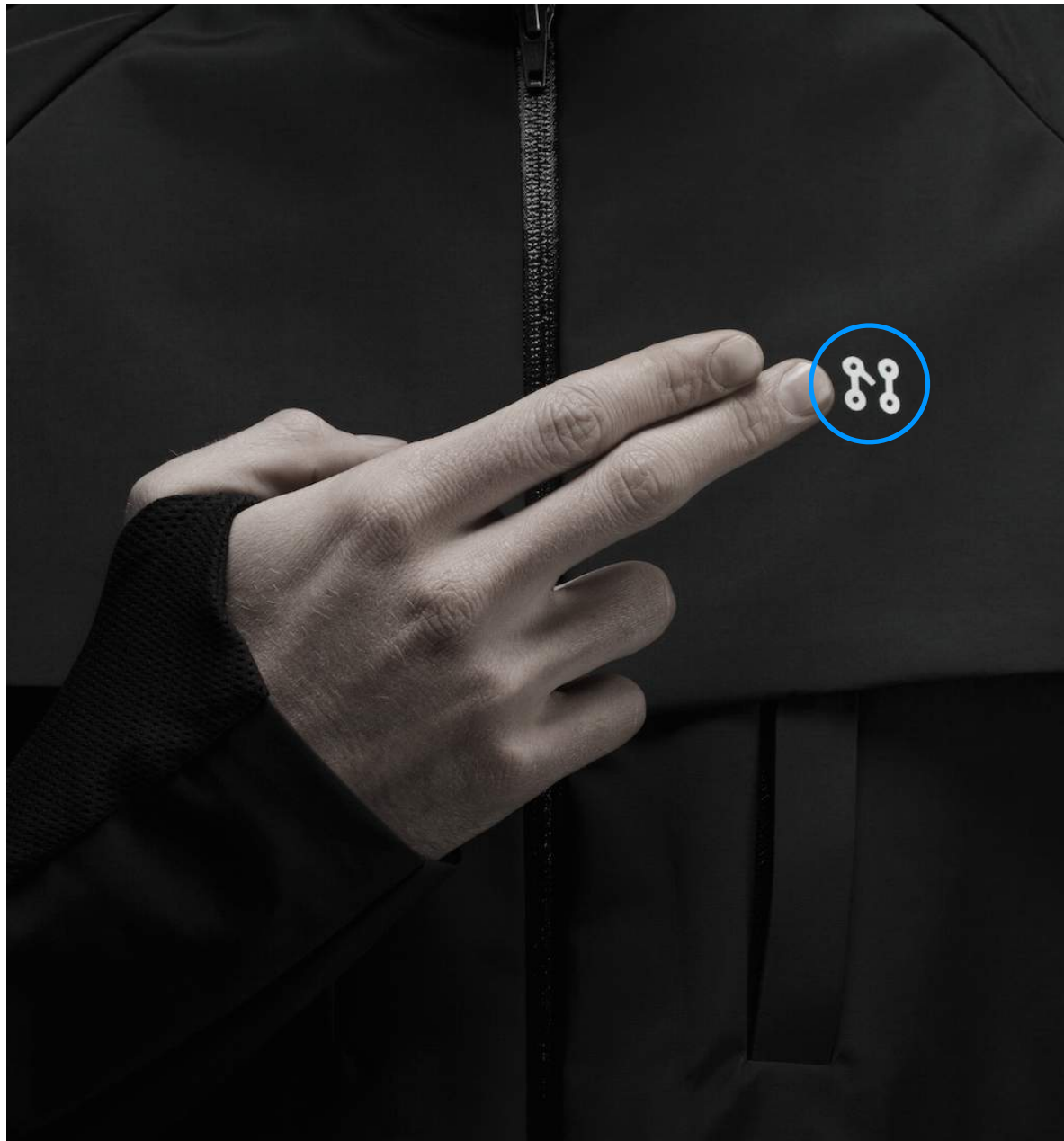


OVERVIEW

The MIDI Controller Jacket is designed in such way that it will give you the ability to determine notes and **cc** to your arm movements.

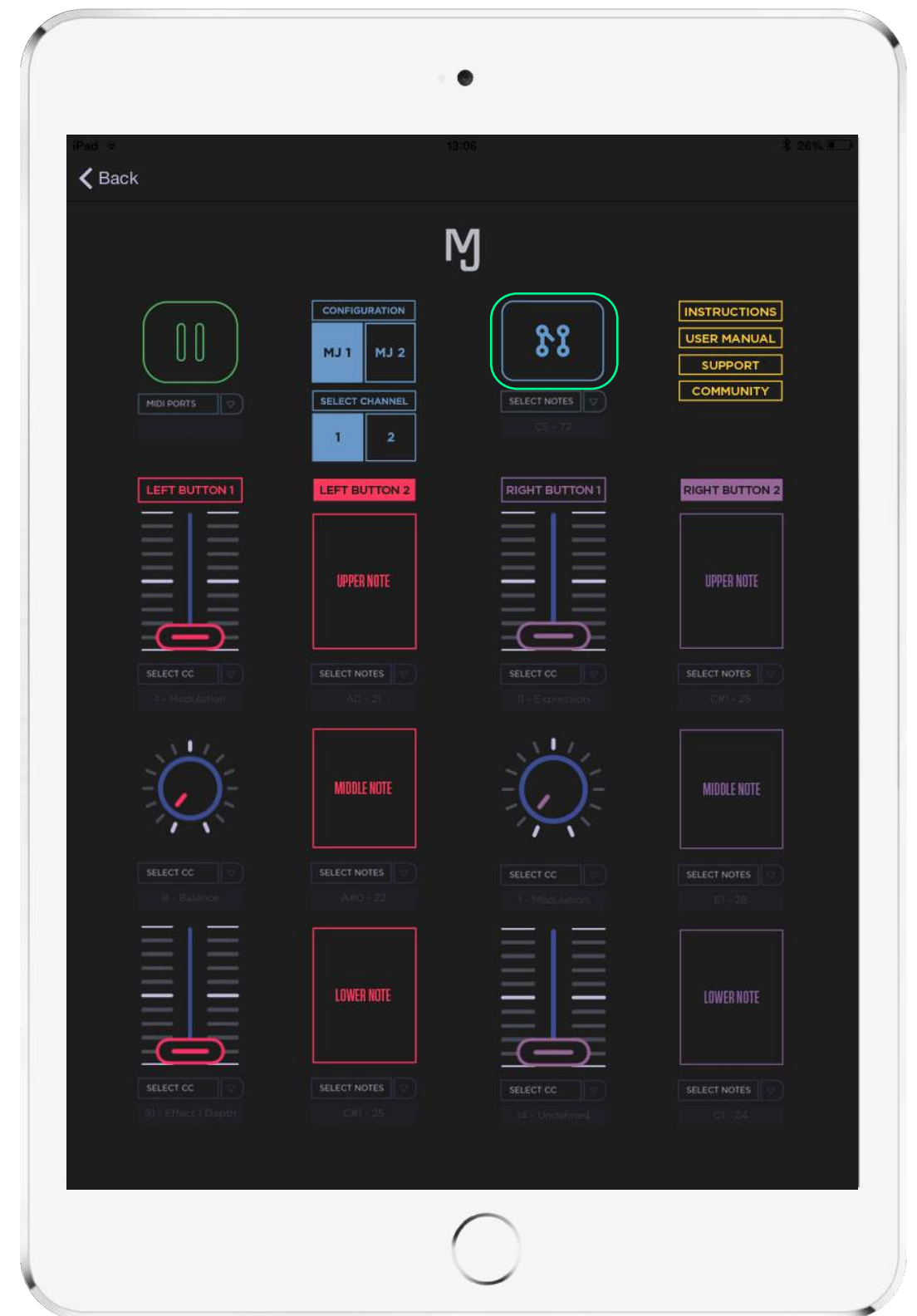


The MIDI Controller Jacket app is a graphic interface that allows you to assign notes and cc to your arm movements.



PIEZO | TRIGGER

The Machina logo located on the left side of the jacket is a sensor that will activate every time you tap it.



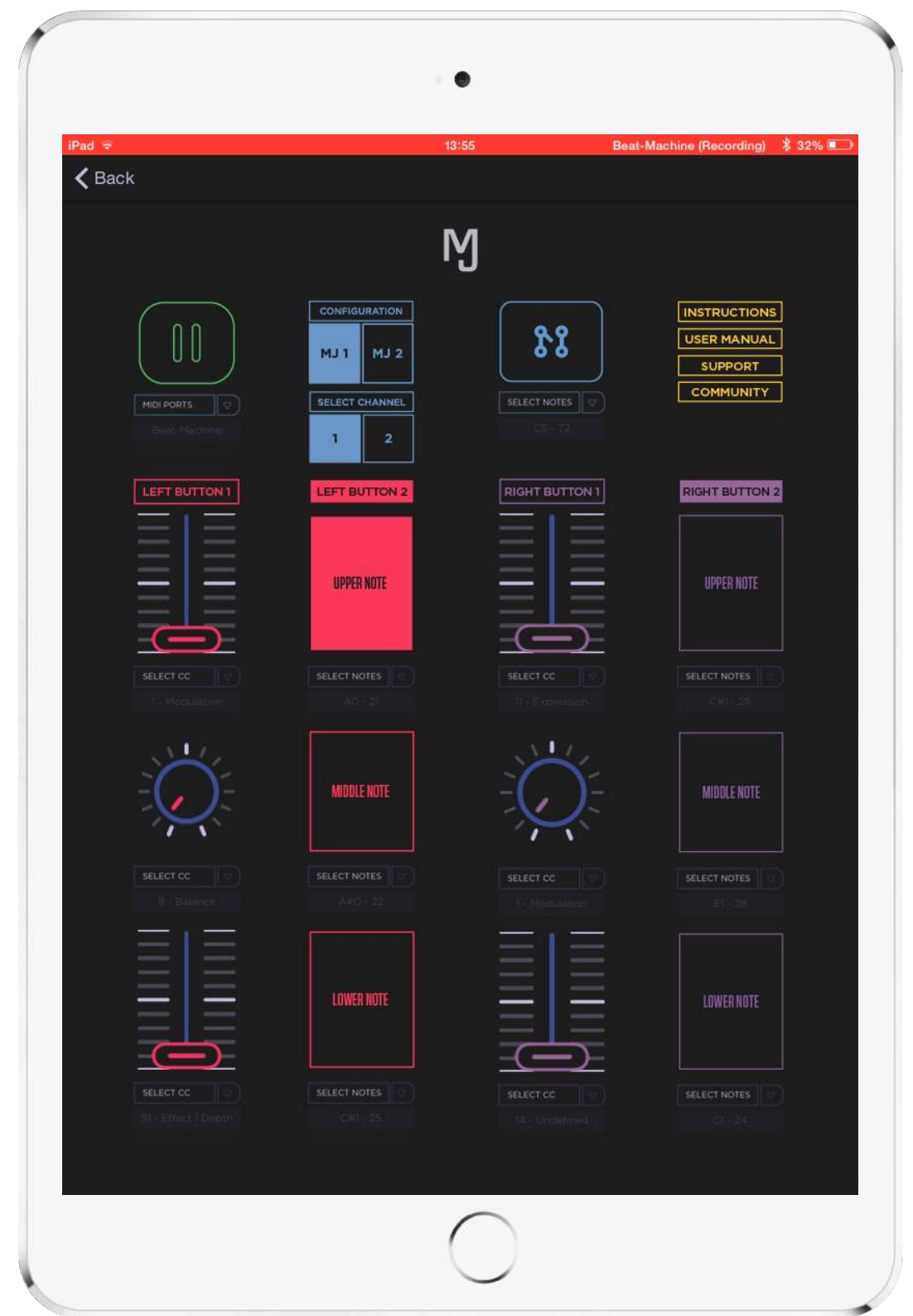
The logo sensor can be mapped to a note and once activated the MIDI Jacket app will shift the logo image to a green color.



UPPER NOTE L

By clicking on button a and pointing your left arm up you will be activating upper note.

With the MIDI Jacket app you will have the ability to assign any notes that you wish to be triggered.



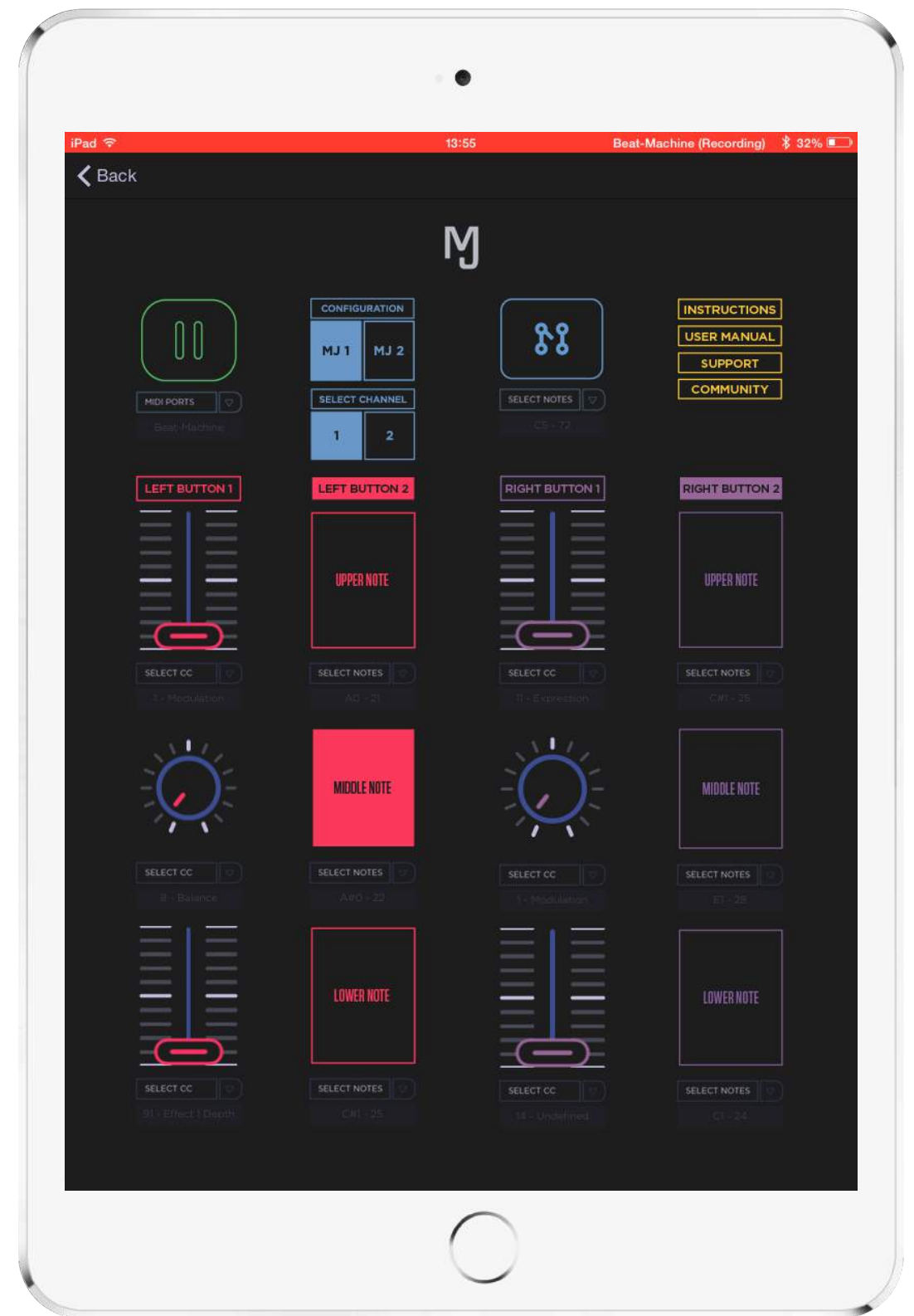
You will receive visual feedback of this feature on the MIDI Jacket app.



MIDDLE NOTE L

By clicking on button b and having your left arm pointing center you will be activating the middle note.

With the MIDI Jacket app you will have the ability to assign any notes that you wish to be triggered.



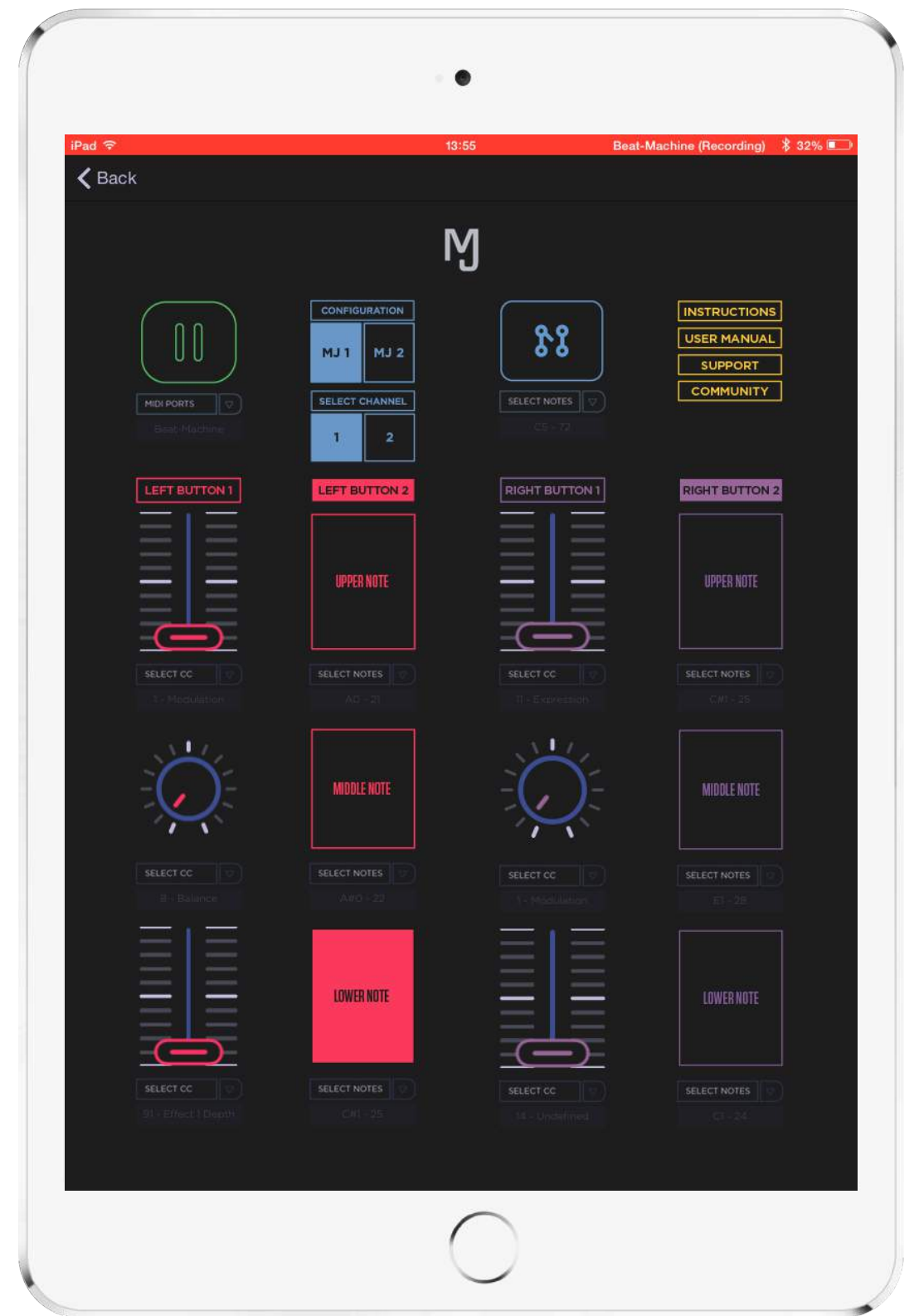
You will receive visual feedback of this feature on the MIDI Jacket app.



LOWER NOTE L

By clicking on button a and having your left arm pointing down you will be activating lower note.

With the MIDI Jacket app you will have the ability to assign any notes that you wish to be triggered.



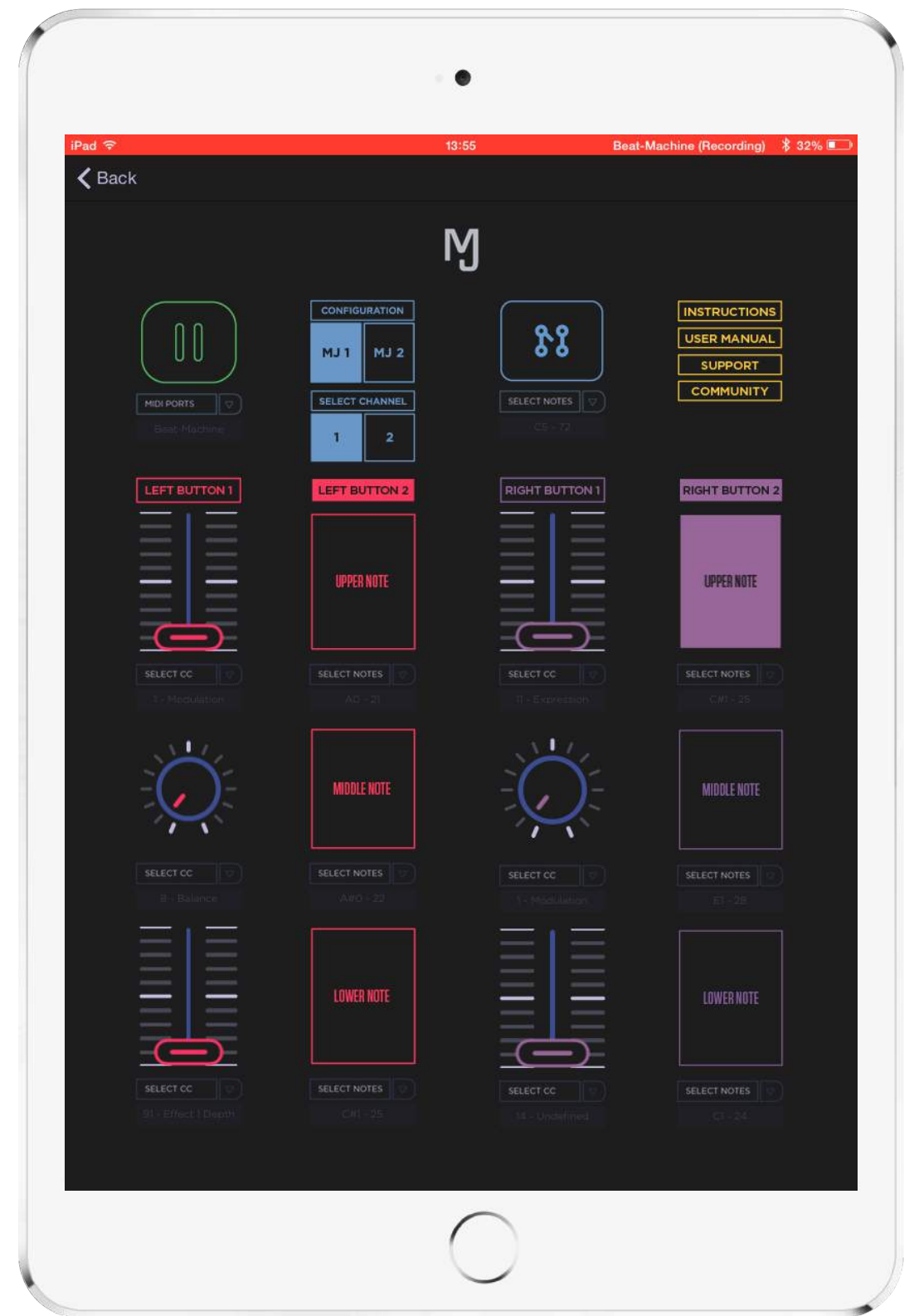
You will receive visual feedback of this feature on the MIDI Jacket app.



UPPER NOTE R

By clicking button b and having your right arm pointing up you will be activating upper note.

With the MIDI Jacket app you will have the ability to assign any notes that you wish to be triggered.



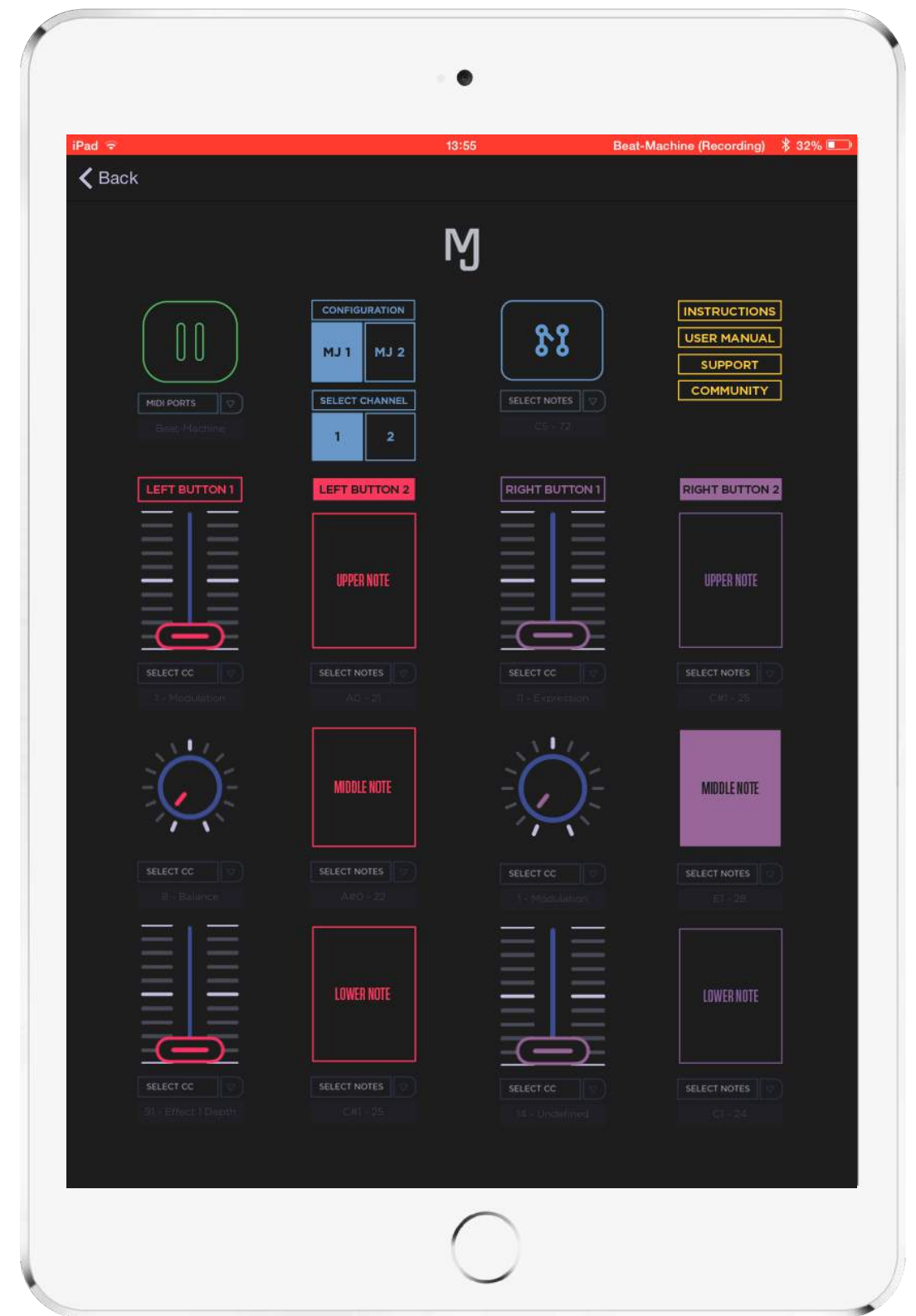
You will receive visual feedback of this feature on the MIDI Jacket app.



MIDDLE NOTE R

By clicking on button b and having your right arm pointing center you will be activating the middle note.

With the MIDI Jacket app you will have the ability to assign any notes that you wish to be triggered.



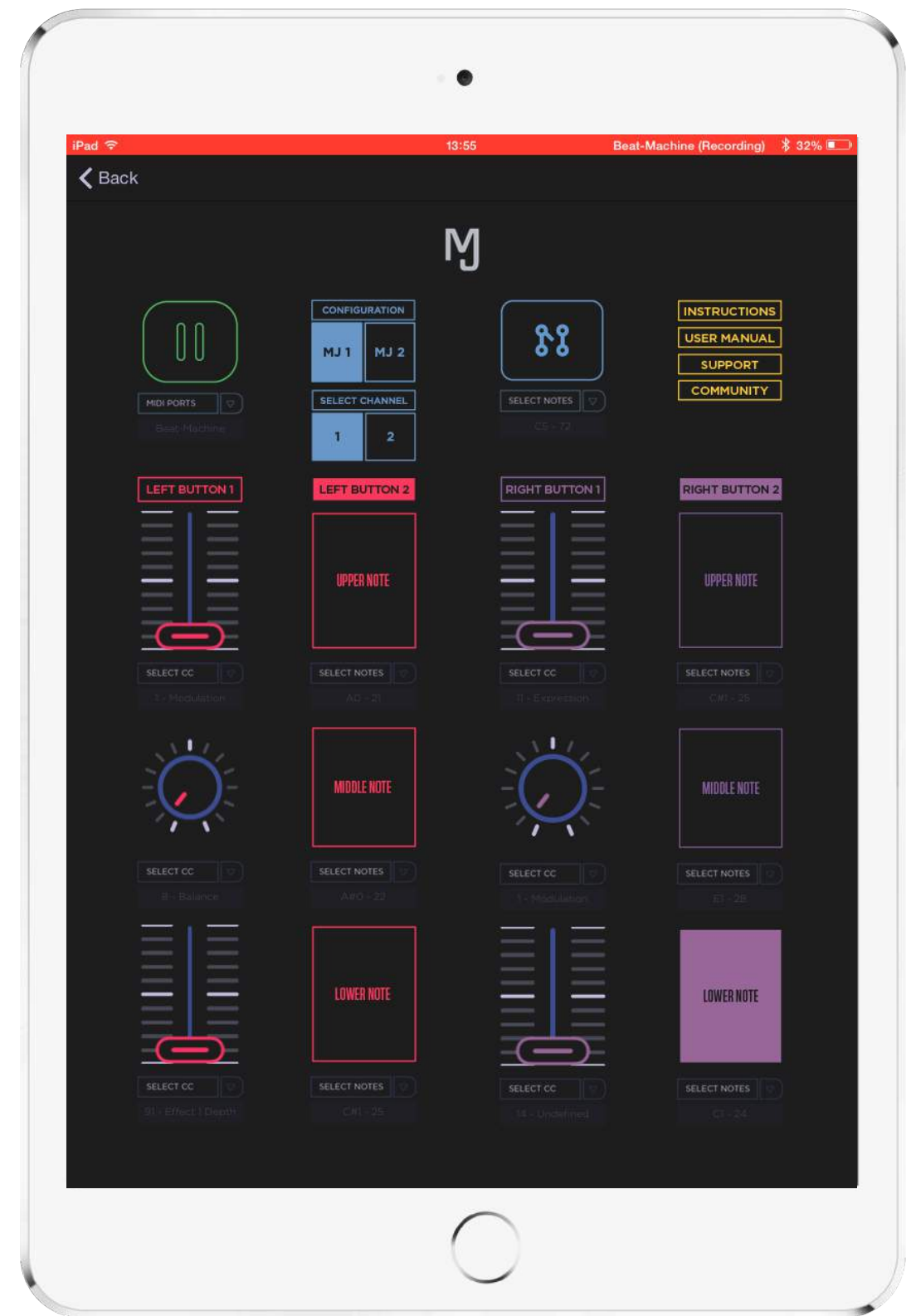
You will receive visual feedback of this feature on the MIDI Jacket app.



LOWER NOTE R

By clicking on button b and having your right arm pointing down you will be activating the lower note.

With the MIDI Jacket app you will have the ability to assign any notes that you wish to be triggered.

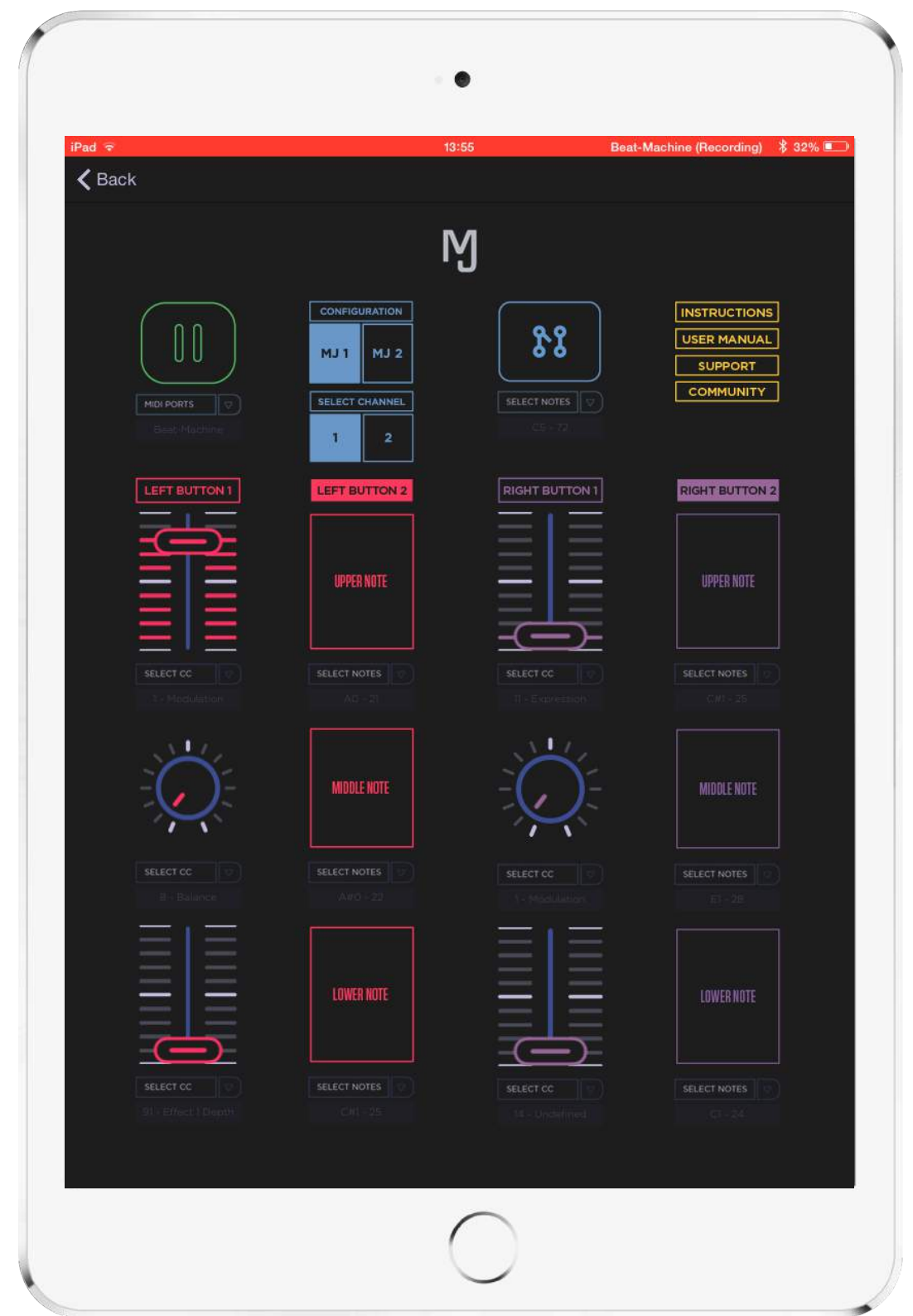


You will receive visual feedback of this feature on the MIDI Jacket app.



UPPER SLIDER |

By clicking and holding on button a with left arm in upper position and doing a vertical up and down movement on arm you will have the ability to assign **cc** for it to work for the upper left slider.

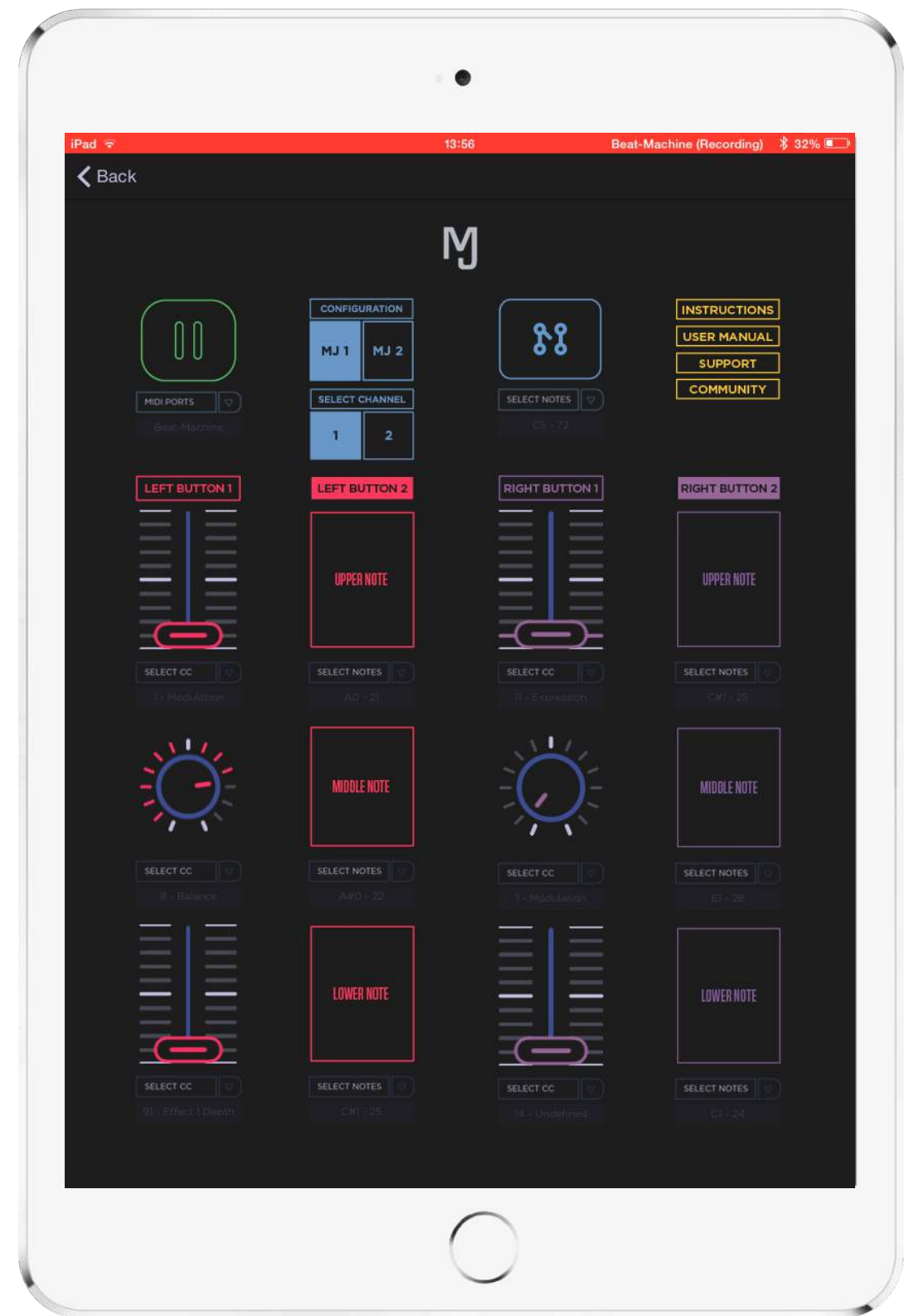


You will receive visual feedback of this feature on the MIDI Jacket app.



MIDDLE KNOB |

By clicking and pressing on button **b** on and doing right and left soft rotating movements with your wrist (*left arm*) you will be able to assign **CC** (*left*) and make it work like a knob.

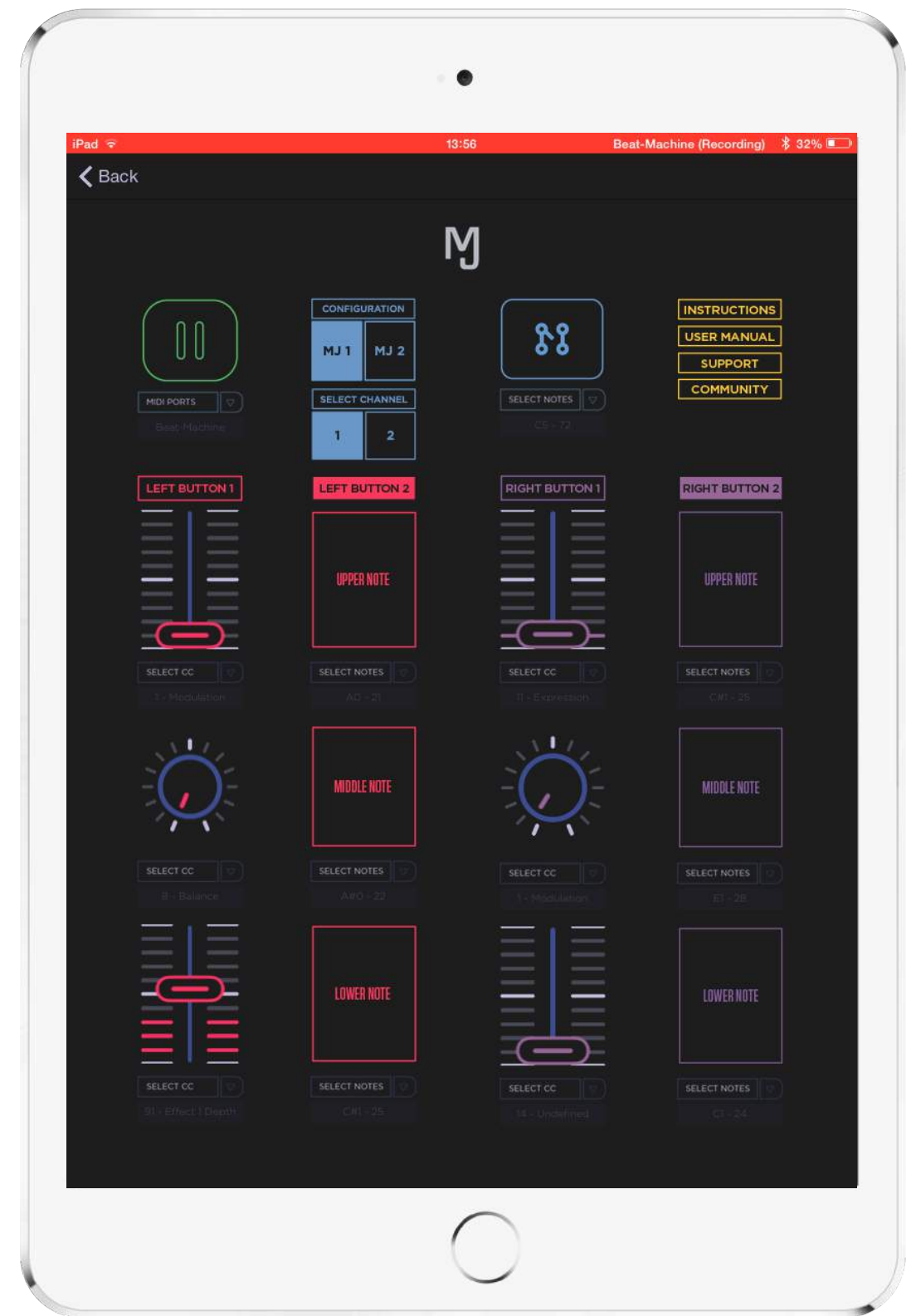


You will receive visual feedback of this feature on the MIDI Jacket app.



LOWER SLIDER L

By clicking and holding on button a on left arm in lower position and doing a vertical up and down movement you will have the ability to assign **cc** for it to work for the lower left hand slider.

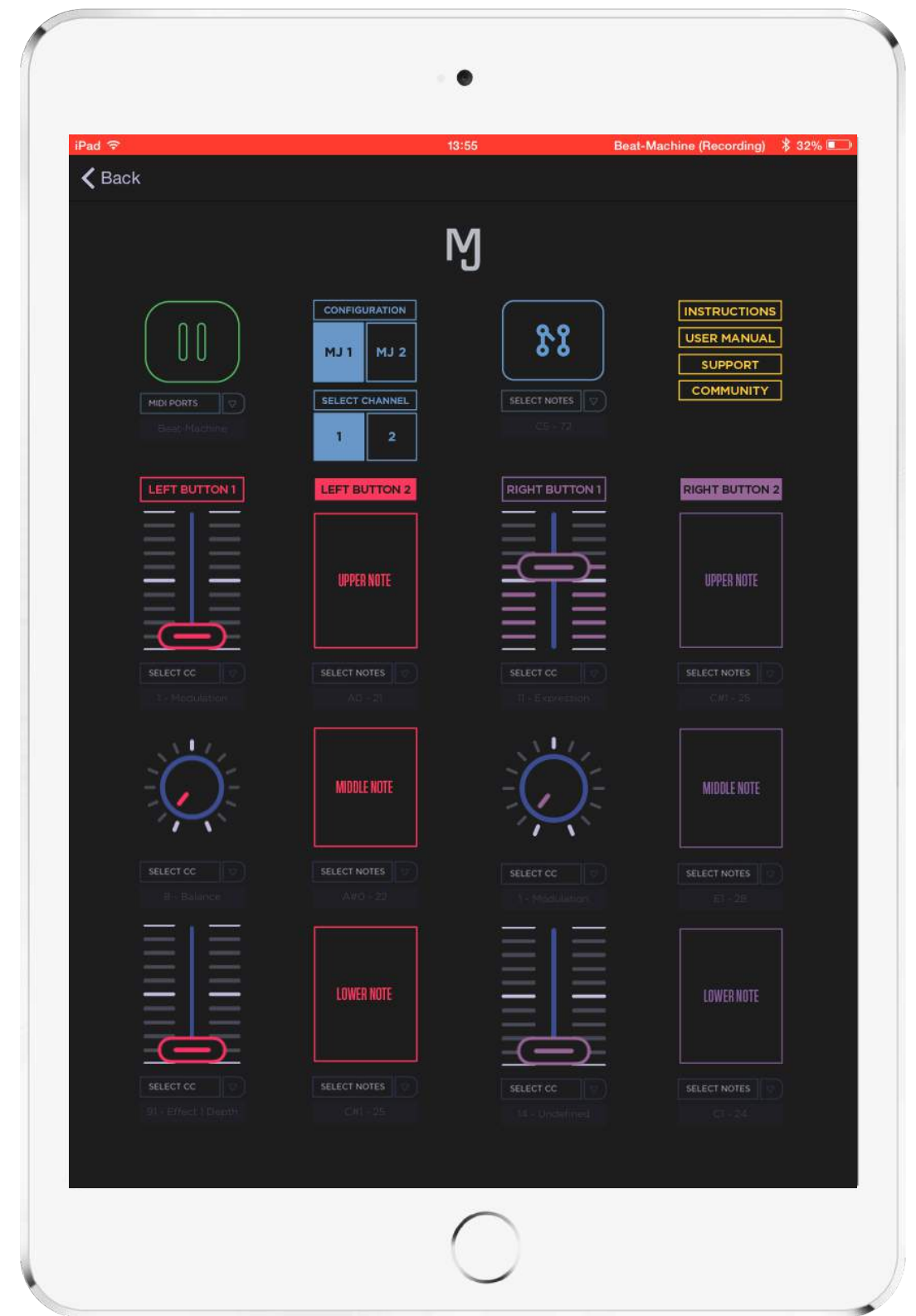


You will receive visual feedback of this feature on the MIDI Jacket app.



UPPER SLIDER R

By clicking and holding on button a on right arm in upper position and doing a vertical up and down movement you will have the ability to assign **CC** for it to work as the upper right slider.

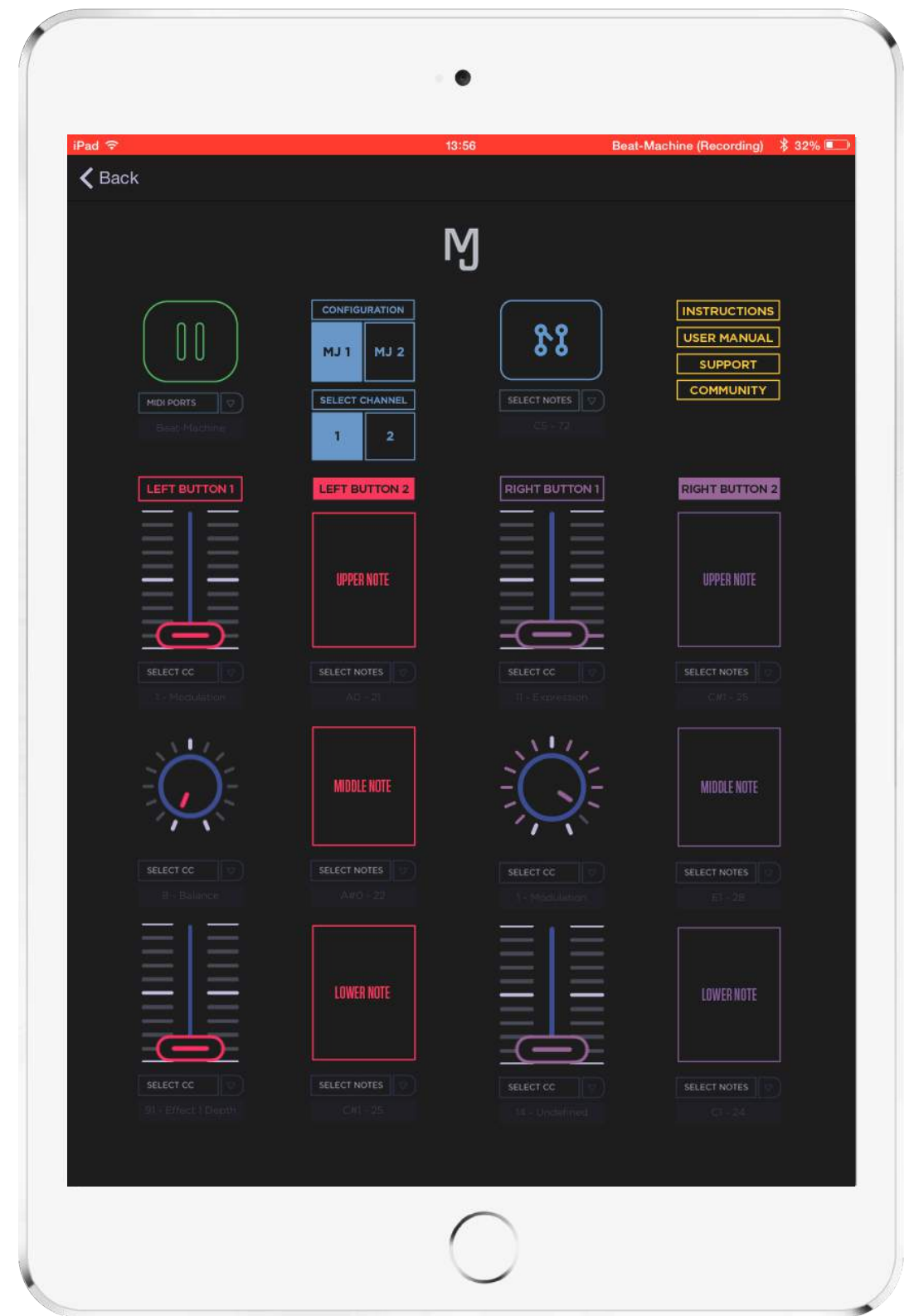


You will receive visual feedback of this feature on the MIDI Jacket app.



MIDDLE KNOB R

By clicking and pressing on button a and doing right and left soft movements with your wrist (*right arm*) you will be able to assign **CC** (*right*) and make it work like a knob.

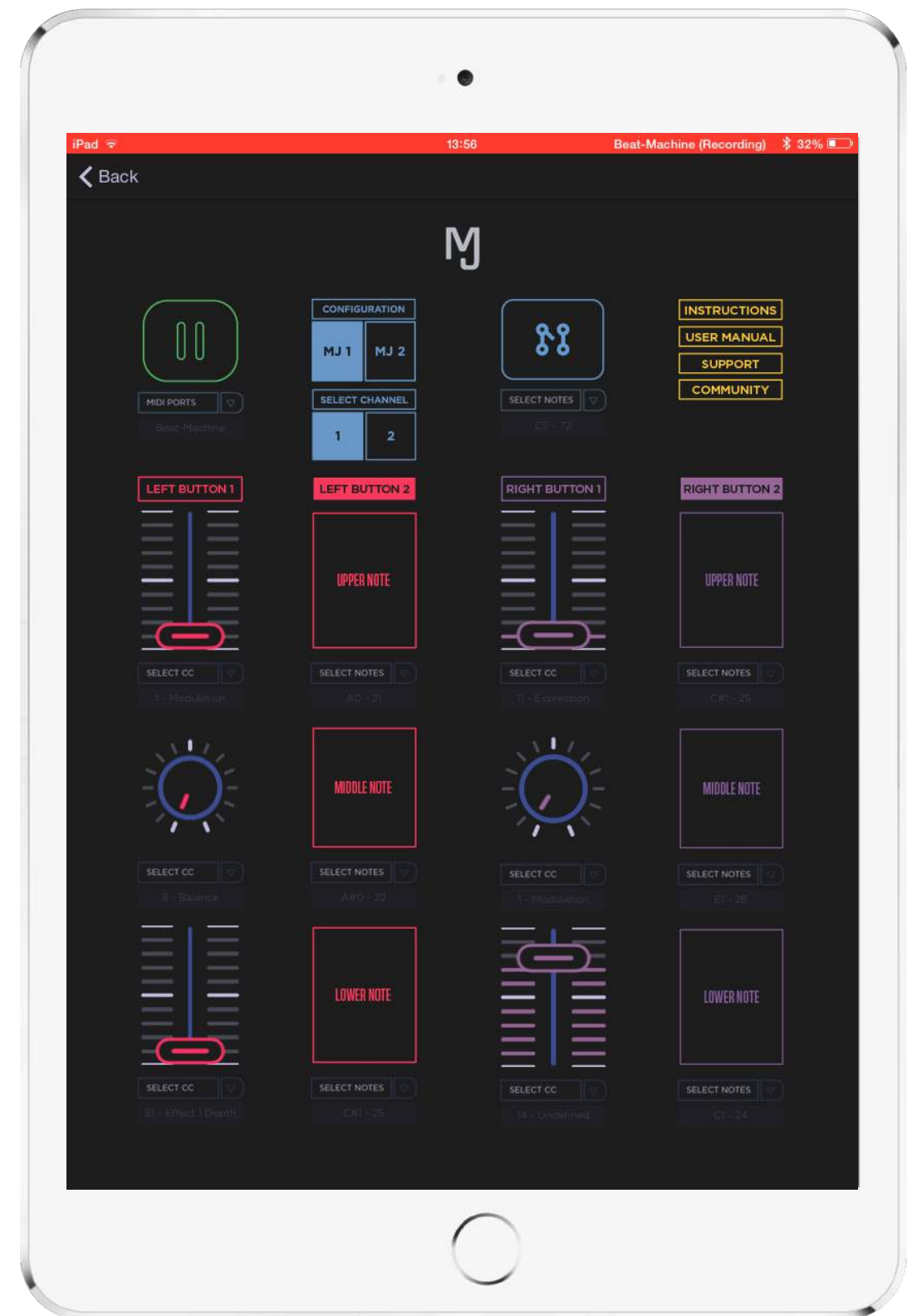


You will receive visual feedback of this feature on the MIDI Jacket app.



LOWER SLIDER R

By clicking and holding on button a on right arm in lower position and doing a vertical up and down movement you will have the ability to assign **cc** for it to work for the lower right slider.



You will receive visual feedback of this feature on the MIDI Jacket app.

| COMPATIBILITY

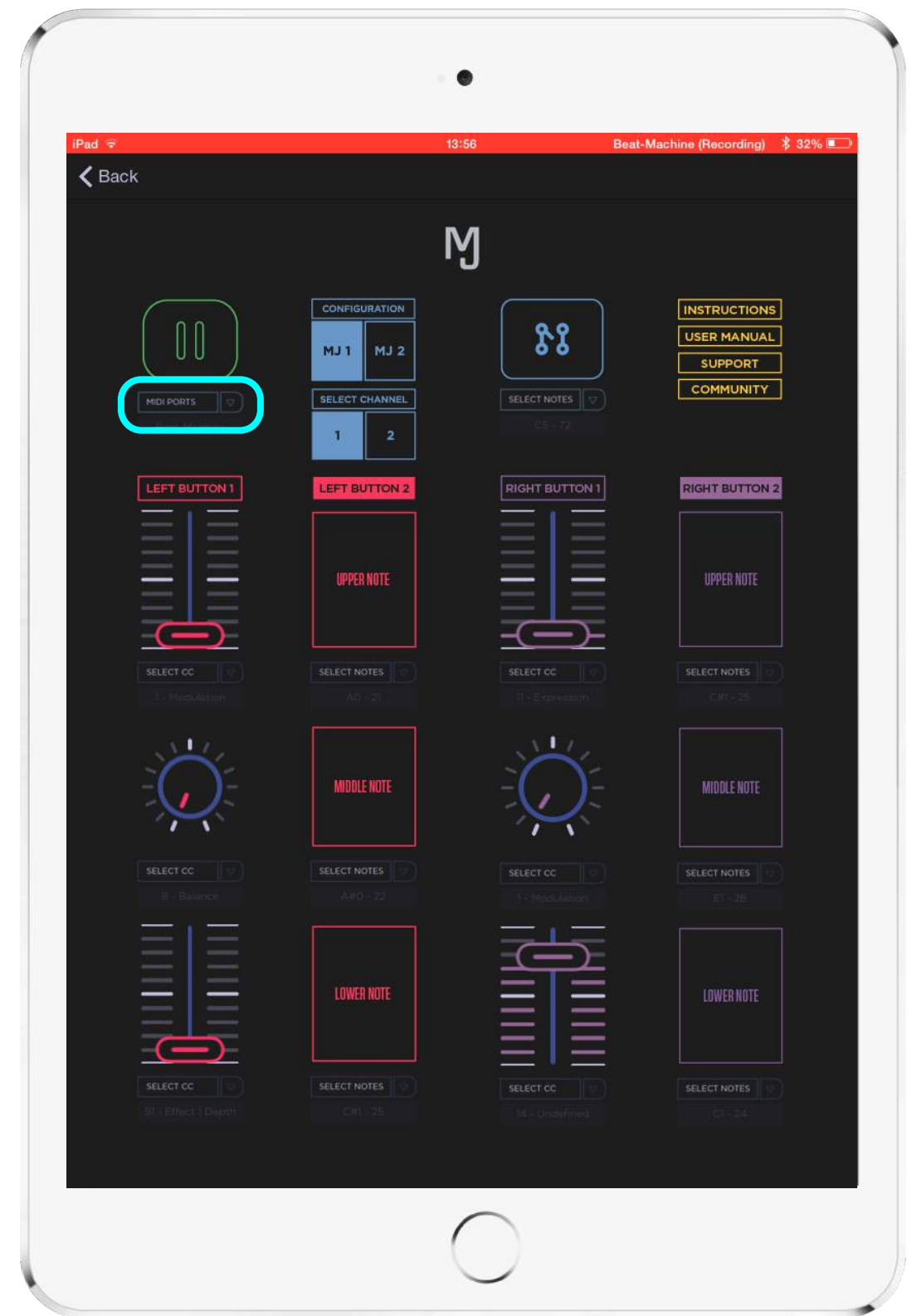
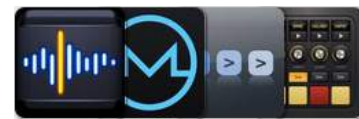
VIRTUAL MIDI COMPATIBILITY

MIDI Jacket's mobile version is iOS compatible with all apps that have virtual MIDI as a protocol.

This gives you the possibility of having a true wearable MIDI Controller as your second skin and as such you can take it with you for most of your daily activities.

Once you open an app like [Magellan](#) and select MIDI Ports your app port will appear. Select it and you are ready to go.

This is a link with a lot of apps that support Virtual MIDI <http://appcrawlr.com/ios-apps/best-apps-virtual-midi>



| WASHABILITY

HOW TO
WASH?

**DO NOT
WASH!**

CLEAN IT!

The jacket is made from an odorless non-absorbent fabric. Stains may be removed using a damp cloth, under no circumstance should you wash the garment.

WARNINGS & WARRANTY

MIDI JACKET DK1 | Warnings & Important Notes

Before connecting the jacket to your computer disconnect it from the battery and reconnect it. This will help prevent malfunctions. Be sure to charge the battery located inside the left pocket. Charge the battery using only 5V USB power, such as that from the USB ports of a computer or by using a dedicated USB charger.

Never use the MIDI jacket in any of the following locations:

- *Humid environments such as baths and washrooms.*
- *Safety-Critical applications.*
- *Nuclear facilities and weapons systems.*
- *Aerospace applications or environments where human life would be at risk.*

MIDI JACKET DK1 | Washability

Do not put your MIDI Jacket into any washing machine or in direct contact with water, especially the battery, sensors, and KER (*microcontroller*).

Warranty and return policy

The MIDI Jacket DK1 is still a prototype and may present some flaws after intensive use. Jackets have been tested in our facilities but do not have a warranty at this time because of the early stage of development and lack of financial resources.

Please be careful to not induce malfunctions due to misuse of the device, such as being dropped, crushed or used with inappropriate voltage: you are the sole responsible party for any damage caused by a charging method other than 5V USB power.

That being said, please feel free to improperly modify your device. If you need any guidance, please email us. The general warranty policy does not cover anything, including (static discharge) product damage due to improper handling.

Make sure to read the Terms & Conditions here:

www.machina.cc/termsandconditions

THANK YOU

VERY MUCH

www.machina.cc