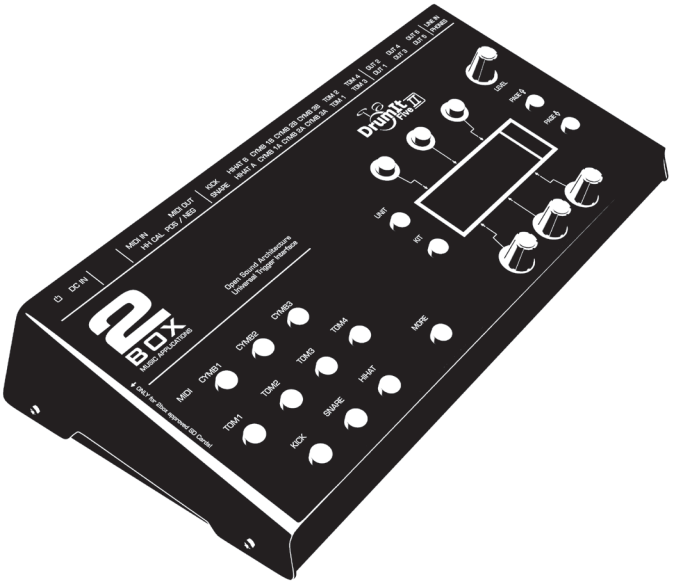
DrumIt Five II



Quick Start Guide (English)

2BOX
MUSIC APPLICATIONS

Contents

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Thank you…

for choosing the 2BOX DrumIt Five Mk2 module. You have chosen wisely. Your new sound module comes with an open sound architecture and a universal trigger interface. To get up and running with your DrumIt Five Mk2 module, we recommend taking the time to read this Quick Start manual.

It provides a concise presentation of all functions you need to be aware of and everything you need to know to come to grips with this feature-rich instrument.

Have fun!

1 First Steps

1.1 Connecting Pads

Connect your pads to the DrumIt Five Mk2 module. See **Chapter 6** for connectivity options

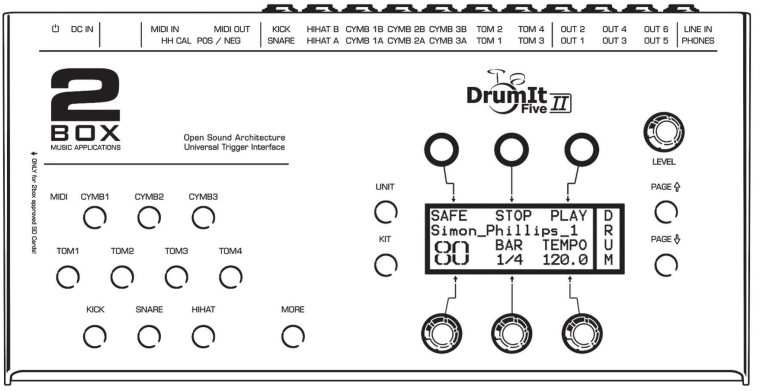
Next, head over to the UNIT-TRIG menu and specify which pad types you connected. See **Chapter 13** for a list of options.

1.2 Connecting the Hi-Hat

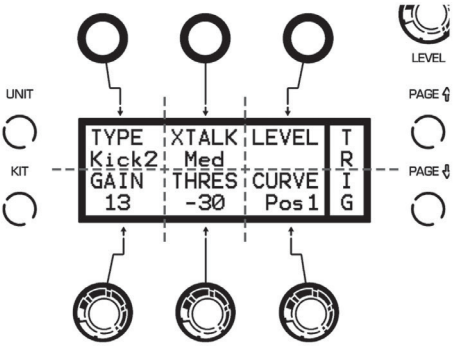
To ensure your hi-hat responds as expected, there is some setting up and calibration you need to do. See **Chapter 5** for the required steps.

2 Operation

The module's user interface is highly intuitive and based on two menu items (UNIT and KIT), each with a number of parameter pages. The parameter pages can be selected sequentially using the PAGE UP and PAGE DOWN buttons. There are no secondary levels or hidden menu items.



The main page comprises six logical areas. The three DATA buttons above the display are assigned to the values or functions that appear in the top row. Press the button above the desired entry to set values or select functions. However, please use the three rotary knobs below the display to change the according parameter values in the bottom row.



3 Menu Structure

UNIT Menu

The UNIT menu contains settings that apply to the module as a whole. This means that they affect all KITs (presets).

MIX: This is where the internal mixer is located. The mixer allows you to set and balance the levels of all channels/instruments.

TRIG: This is where you will find the main trigger settings for each channel. Here are a few examples: What pad type did you connect? How responsive should the pad be? Which dynamics curve best matches your playing style?
It would be a good idea to take some time to familiarize yourself with these settings. We are confident you will be impressed by the DrumIt Five Mk2 module's responsiveness once all settings are in place.

HCAL*: This is where you set up your hi-hat and calibrate the corresponding pad. See below and the User Manual for a detailed discussion of these settings.

HSET*: This page is used to fine-tune the settings you made on the HCAL page. Use it to ensure the response matches your playing style.

SPEC: This page allows you to set aspects that help you avoid double triggering and cross-talk. This is especially important for acoustic drum triggers you may be using.

INTF: This page is used to specify the MIDI and routing settings for each individual channel. Here you can select MIDI channels, route the signals to the mixer and assign the required channels to DIRECT OUTs.

OUT: This page allows you to set the output routing. Which signals should be assigned to the MAIN outputs (OUT 1 and 2) and which to the PHONES connector?

VU: This page allows you to check the level of the inputs, of the outputs, and the busses, respectively.

METR: This is where you select the sound of the built-in metronome.

MIDI: This page allows you to set global MIDI parameters. Should the module respond to program change messages, and which control change messages should the hi-hat transmit? These settings are important for recording MIDI data with your computer.

*(only available after selecting the hi-hat channel)

PREF: This page is used to manage the SAVE function and to reset the module to its factory defaults.

MEM: This is where you can check the remaining memory capacity for additional sounds.

INFO: This page displays the firmware's version number.

KIT-Menu

The KIT menu allows you to manage and edit the internal memory slots. The module comes with 100 factory KITs (memory slots). Those KITs can be edited and overwritten with your own settings.

The KIT menu allows you to assign the desired sounds to the selected KIT, to edit their settings, to configure the metronome and playback functions and to adjust the built-in equalizer.

PROG: The KIT home page allows you to select a KIT and to start/stop the built-in metronome or song player.

DRUM: This page is used to assign a sound to the selected drum channel and to set the tuning and volume.
The channel can be selected using the CHANNEL buttons (left) or simply by hitting the assigned pad.
Note: The Rim channels of toms 1 through 4 and the snare (PERC 1~5) can be selected by simultaneously pressing the MORE and CHANNEL buttons.

ENV: This is where you fine-tune the selected sound and specify the loop setting for each channel.

CFNC: If you like, you can also assign a function to a pad rather than a sound. Doing so would allow you to start and stop the metronome, or to select the next KIT by hitting such a pad.

KFNC: The HHPOS function on this page allows you to set the hi-hat's opening level ("bashiness") without recalibrating the pad. This is especially useful if the left foot is used for something else (like double bass drum playing, for instance).

VOL: This is where you set the level, the stereo placement (pan), and the effect intensity of the selected channel.

EQ: Each KIT is equipped with a 3-band equalizer. It can either be applied to all instruments or just for a specific channel.

FX: The internal effect processor provides a Delay or Flanger for each KIT, which can be assigned to the separate channels (see Page VOL).

ACMP: This page contains the built-in player. Use it to specify whether you wish to play to a song or the built-in metronome. The metronome's settings and the tempo can be customized and saved.

4 Saving Your Settings

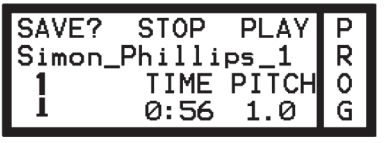
Any changes you make can be saved internally

Important: Your settings can only be saved after unlocking the SAVE function in the UNIT-PREF menu (you only need to do so once). Press the leftmost DATA button to switch the SAVE function "On".

Saving one KIT

Changes you wish to keep after editing the settings on a KIT page require that you save the KIT in question.

If the settings of selected KIT no longer correspond to the stored version, a "**?**" symbol appears next to **SAVE** on the KIT home page.



Press the leftmost DATA button above the display.

Pressing the button above SAVE yet again will write your changes to the selected KIT.

Renaming a KIT

To rename a KIT, press the button above SAVE on the KIT home page.

You can use uppercase and lowercase letters, numbers as well as several special characters for the names you enter. Turn the middle knob to select the desired character (KEY flashes) or press it to insert a space. Use the right knob to move the cursor to another position, or press it to delete the space.

To confirm the name, press the leftmost DATA button above the display (SAVE).

Copying, Moving and Swapping KITs

Existing KITs can be moved (MOVE) to a different memory slot, swapped with other KITs (SWAP) and copied (COPY).

Start by pressing the leftmost button above the display.

Rotate the knob to select the number of the KIT that should act as target for the currently selected KIT. After specifying the new KIT number, you can select among three functions: COPY, MOVE and SWAP.

Pressing the leftmost DATA button allows you to copy the selected KIT to the target memory. MOVE allows you to move the KIT towards the target memory (the KITs at and behind this position move one slot). SWAP, finally, causes the two selected KITs to change places. In this example, KIT no. 1 moves to memory 80, while the settings of KIT no. 80 move to memory location 1.

If you like, you can rename the settings during the COPY, MOVE or SWAP operation.

Saving Your UNIT Settings

When you change a setting in the UNIT menu, a “?” appears next to SAVE. Press the leftmost DATA button to save the changes if you want to keep them. The “?” disappears and your changes will be remembered. Please be aware that this is only possible if SAVE mode on the PREF page has been switched on. If the “?” doesn’t disappear after pressing the leftmost DATA button, the SAVE function is currently disabled.

5 Setting Up and Calibrating the Hi-Hat

The hi-hat is the most complex instrument of your drum kit. The DrumIt Five Mk2 module has been designed to accommodate a vast number of hi-hat pads and controllers of several manufacturers. This flexibility, however, also means that there are a number of parameters that need to be set to take advantage of the DrumIt Five Mk2's full potential. In most instances, these setup and calibration steps only need to be performed once.

Just follow the steps below to set up your hi-hat within minutes.

1. Connect the hi-hat pad and optional hi-hat controller (if available) to the corresponding inputs on the module. Input A is to be used for the trigger signals while Input B is to be used for the control commands.
2. Navigate to the UNIT-HCAL page. Remember that this page is only displayed while the hi-hat channel is selected. Use the CHANNEL buttons to select the hi-hat channel or simply hit the hi-hat pad.
3. Next, specify the hi-hat type you connected.

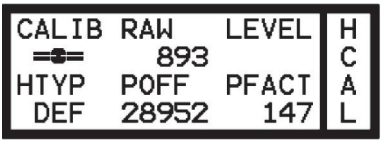
DEF	All popular hi-hat types and brands
2BOXHH	2BOX DrumIt Five Hi-hat
ALEHH	Alesis Crimson hi-hat controller

4. Set the RAW value so that it matches the connected pad. Use a screwdriver to change the setting of the recessed screw (HH Cal) on the module's back panel. The values below are merely indications of what might work for you. Feel free to tweak the setting to adapt the response to your playing style.

Yamaha	850-900
Roland	800-850
Alesis	830-880
2BOX	670-720

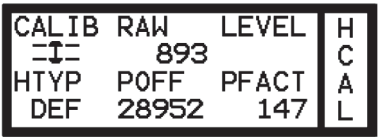
5. Start the calibration process:

   5.1. Press the leftmost DATA button once. A closed hi-hat icon appears in the display and starts flashing.



   5.2. Close the hi-hat pad or press the controller's pedal with your foot.

   5.3. Press the leftmost DATA button a second time. An open hi-hat icon appears in the display and starts flashing.



   5.4. Open the hi-hat pad or remove your foot from the pedal.

   5.5. Press the leftmost DATA button yet again to exit the calibration function.

   5.6. The display shows "done". The hi-hat has been successfully calibrated. If the message "NoChg" is displayed instead, the calibration could either not be performed or was repeated with the exact same settings. If the calibration routine failed, start by repeating steps 1~4 and then calibrate your hi-hat again.

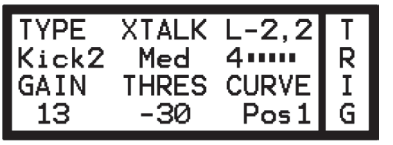
6. If the calibration was successful, you can now check whether the hi-hat responds to your playing as expected. If you are not happy with the response, either repeat the calibration steps or fine-tune the following parameters.

   PFACT Increase this value to raise the calibration threshold. This is useful for a consistent "foot chick" (pedaled hi-hat) and "foot splash" (quick release of the pedal after a chick) sound. We recommend taking your time to find the setting that you are most comfortable with.

   POFF This parameter allows you to change the hi-hat's calibration range: higher values extend the range, while lower values narrow it down. Bear in mind that changing this setting also affects the PFACT setting. We recommend editing this parameter only once you are thoroughly familiar with the system.

7. Another important aspect is the hi-hat channel's trigger response. This can be set using the relevant menu items (see the downloadable User Manual for details).

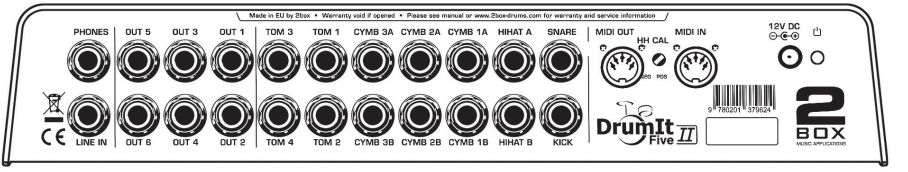
UNIT-TRIG This is where you set the hi-hat pedal's response and sensitivity. Set the main parameters (GAIN, THRES, CURVE) to match your playing style.
The most important of these is GAIN. Set it so that only the most forceful strikes produce a Level value of 0.0.



UNIT-HSET This page is used to set the hi-hat pedal's sensitivity/level (SENS) and its dynamic response (CURVE).

This completes the hi-hat settings!

6 Connections



This module provides the following inputs and outputs:

12V DC This is where you connect the external power supply.

MIDI IN Connect this to the MIDI OUT socket on the external MIDI controller to allow the module to receive MIDI messages.

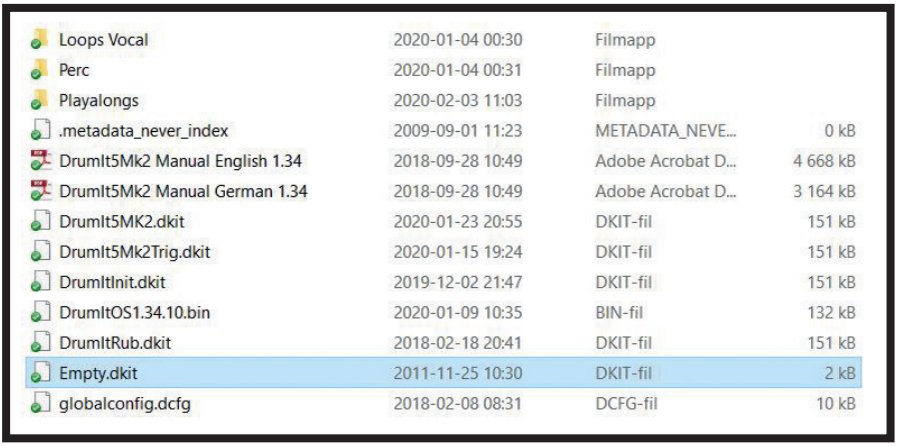
MIDI OUT Connect this to the MIDI IN socket of the device that should receive MIDI messages from the module.

Channels	Connect your pads to the inputs that correspond to the instrument you wish to trigger. The hi-hat controller needs to be connected to the HIHAT B socket. The B channels of CYMB 1~3 are intended for pads that accommodate 2 stereo cables. Given that all inputs are balanced (stereo), be sure to only connect stereo cables.
OUT 1~6	These are the DrumIt Five Mk2's outputs, which can be connected to a mixer or amplifier. By default, OUT1 and 2 transmit the mixed stereo signal. OUT3 to OUT6, on the other hand, are assigned to BUS3 to BUS6 respectively. If necessary, OUT 1 and 2 can also output BUS signals (BUS1 and BUS2). This can be set on the UNIT-OUT page.
PHONES	This is where you can connect a commercially available pair of headphones (recommended impedance 32 Ω - 600 Ω).
LINE IN	This is where you can connect an external signal source. You can use a stereo cable (for your smartphone, for instance) or a mono cable (e.g. to listen to the monitor signal via the DrumIt Five Mk2 in a live setting).

7 Card Slot

The DrumIt Five Mk2 has an SD card (32 GB) on which all sounds and settings are stored (see chapter 8). You can easily remove the SD card from its slot located on the side of the DrumIt Five MK2 and insert it into the card reader of your computer. Doing so allows you to simply drag & drop new sounds to the SD card (which you, for instance, have downloaded from the 2BOX homepage). Of course, using the 2BOX editor software (see chapter 9) you can also edit User KIT Bank settings the directly on the SD card.

8 File System

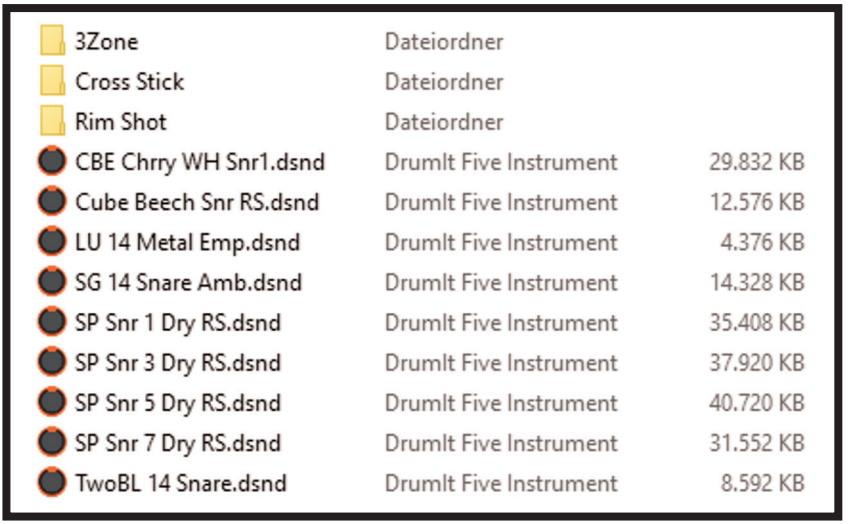


Loops Vocal	2020-01-04 00:30	Filmapp	
Perc	2020-01-04 00:31	Filmapp	
Playalongs	2020-02-03 11:03	Filmapp	
.metadata_never_index	2009-09-01 11:23	METADATA_NEVE...	0 kB
DrumIt5Mk2 Manual English 1.34	2018-09-28 10:49	Adobe Acrobat D...	4 668 kB
DrumIt5Mk2 Manual German 1.34	2018-09-28 10:49	Adobe Acrobat D...	3 164 kB
DrumIt5MK2.dkit	2020-01-23 20:55	DKIT-fil	151 kB
DrumIt5Mk2Trig.dkit	2020-01-15 19:24	DKIT-fil	151 kB
DrumItInit.dkit	2019-12-02 21:47	DKIT-fil	151 kB
DrumItOS1.34.10.bin	2020-01-09 10:35	BIN-fil	132 kB
DrumItRub.dkit	2018-02-18 20:41	DKIT-fil	151 kB
Empty.dkit	2011-11-25 10:30	DKIT-fil	2 kB
globalconfig.dcfg	2018-02-08 08:31	DCFG-fil	10 kB

At the root level, you will find the following files:

DrumIt5.**dkit**	Standard **User KIT Bank**. This file contains your own KIT and UNIT settings.
DrumItInit.**dkit**	This file contains the KIT and UNIT settings programmed at the factory. This file is required to perform a factory reset of the unit.
DrumItOS1.3x.xx.**bin**	**Firmware** (operating system) of the DrumIt Five Mk2
DrumIt Five Mk2 x.x.**pdf**	Manuals in the PDF format
globalconfig.**dcfg**	Index file, which is required for Mac operating systems
.metadata_never_index	System file

The folders contain the 2BOX sound files in the DSND format as well as play-along songs in the WAV format.



Feel free to change the folder structure so as to organize the files in a way that works for you. Given the DrumIt Five Mk2 module's display size, we recommend using short folder names and working with a limited number of folder levels.

9 Editor Software

The 2BOX sound universe is virtually open-ended. Using 2BOX's free editor software, you can create your own sounds and set the main KIT parameters on your PC/Mac. The editor makes converting WAV files to highly usable 2BOX sounds a breeze. This includes multilayers with up to 127 velocity levels!

See the following URL for details about the software and tutorial videos:

www.2box-drums.com/editor

10 User Manual

On our web page, you will find a comprehensive DrumIt Five Mk2 manual that you can download free of charge as a PDF.

www.2box-drums.com/support

11 Sound Downloads

One special feature about the DrumIt Five Mk2 is its open sound architecture. You can transfer new sounds to your module and delete sound files you never use (consider backing them up on your computer, however).

You will find a host of additional sound files on our website, which can be downloaded free of charge. Just help yourself to new signature sounds, specialty percussion instruments and/or legendary electronic drum sounds!

Download the desired ZIP archives and unpack the 2BOX sound files they contain on your computer. Those sound files can now be copied to the SD card and used just like the original factory sounds (see chapter 7).

www.2box-drums.com/sounds

12 Compatibility List

The following list is not exhaustive, because testing all current and legacy pads on the market would be rather time-consuming. We do promise, however, to keep this list up-to-date whenever we are able to confirm the compatibility of products we haven't tested so far. If you don't see the type or manufacturer of (one of) your pads, please do not conclude that your pad(s) won't work with the DrumIt Five Mk2. Rather, compare the technical specifications of your pads with the requirements listed in the table below. If the specs match the listed requirements, your pads may work even though they do not appear in the list of compatible products. If in doubt, just ask your dealer or send an e-mail to: **support@2box-drums.com**

Pad type	**Kick**	**Snare/Tom**	**Hi-hat pad**	**Hi-hat controller**
Specifications	Piezo (head)	Piezo (head)	Piezo (bow)/Switch (edge)	Adjustable resistor, active hall generator or switch
		Piezo (head)/Piezo (rim)	Piezo (bow)	
		Piezo (head)/Switch (rim)		
		Piezo (head)/Switch (rim)/Switch (cross-stick)		
Products	2box	2box	2box	
	Alesis Crimson series	Alesis Crimson series	Alesis Crimson series	
	Alesis DM 10 series	Alesis DM 10 series	Alesis DM 10 series	
	Alesis Strike series	Millenium MPS series	Alesis Pro X	
	Roland KD120	Roland PD-100	Millenium	
	Roland KD140	Roland PD-125	Roland FD-7	
	Roland KD7	Roland PD-8	Roland VH-11	
	Yamaha KP-65	Roland PD-85	Roland VH-12	
	Yamaha KP100	Roland PDX-100	Yamaha RHH135	
		Roland PDX-8	Yamaha HH-65	
		Roland PDX-8		

Pad type	**Cymbals**	**Trigger**	**Miscellaneous**
Spezifikation	Piezo (bow)	Piezo (head)	Piezo
	Piezo (bow)/Switch (Edge)	Piezo (head)/Piezo (rim)	
	Piezo (bow)/Switch (edge)/Bell (Switch)		
Produkte	2box	2box TrigIt	DDrum Trigger Tube
	Alesis Crimson Series	DDrum Chrome Elite	Roland BT-1
	Alesis DM Series	DDrum Pro	
	Millenium MPS Series	DDrum Red Shot	
	Roland CY-12C	ddt AT Serie	
	Roland CY-13R	ddt Truss Serie	
	Roland CY-14C	Roland RT Serie	
	Roland CY-15R	TDrum Black Shot Serie	
	Roland CY-8	TDrum Pro Serie	
	Yamaha PCY100	Yamaha DT50 Serie	
	Yamaha PCY135		

13 Connection Options and Trigger Types

Type	Brands (examples)	Zones - configuration				Information	Instrument		
		Head /Bow	Rim/ Edge	Cross-stick/ Bell	Choke		Kick	HH	
PadP	2box, Roland	Piezo	Piezo	-					
PaPSS	Huaxin	Piezo	Switch	Switch					
PaPSY	Yamaha	Piezo	Switch	Switch					
PadPS	Roland, Alesis	Piezo	Switch	-					
Rim	various								
CyPSV	2box	Piezo	Switch	Velocity	yes				
CyPSB	Roland	Piezo	Switch	Switch	yes				
CyPS	Alesis, Roland	Piezo	Switch	-	yes				
CyPSS	Huaxin, Alesis	Piezo	Switch	Switch	yes				
CyPSY	Yamaha	Piezo	Switch	Switch	yes				
HiHat	various	Piezo	Switch	-	-	control to Input B		x	
AcTr1	2box, Ddrum	Piezo	Piezo			small drum			
AcTr2	2box, Ddrum	Piezo	Piezo			medium drum			
AcTr3	2box, Ddrum	Piezo	Piezo			big drum			
RubH1	2box	Piezo	Piezo			Rubber Heads S			
RubH2	2box	Piezo	Piezo			Rubber Heads M			
RubH3	2box	Piezo	Piezo			Rubber Heads XL			
Kick1	various	Piezo				faster response	x		
Kick2	various	Piezo				slower response	x		

Instrument											
	Snare			Tom		Rim	Cymbal			Acoustic	various
	1 Zone	2 Zones	3 Zones	1 Zone	2 Zones		1 Zone	2 Zones	3 Zones	Trigger	
	x	x		x	x						x
			x								
			x								
		x			x						
						x					
									x		
									x		
							x	x			
									x		
									x		
										x	
										x	
										x	
											x
											x
											x

14 Important Safety Precautions

- Never try to open or modify the power supply adapter.
- If the power supply is damaged, be sure to purchase a new 2BOX adapter. When using a third-party adapter, make sure it is a 12V/1000mA DC power supply (100-240V).
- Never use the power supply outdoors or in damp locations.
- The DrumIt Five Mk2 module operates at low power and should therefore pose no particular hazard. We nevertheless urge you to operate it in a responsible manner.
- Do not allow any liquids to penetrate inside the unit.
- Never drop the unit.
- Never apply excessive force to the module or its controls.
- Never expose the module to extremely hot (>40°C) or cold (below 0°C) temperatures.
- Avoid covering the module's bottom or rear panel, or its power supply adapter with blankets and the like. These areas become hot while the unit is in use, and this heat needs to be dissipated in one way or another.
- In short: be sure to handle the DrumIt Five Mk2 module with the same care as any other electronic device you own. This will ensure maximum enjoyment for years to come.

www.2box-drums.com