



E·VAULT

ELECTRONIC DRUM MODULE QUICK START GUIDE



WELCOME.



SCAN THE
QR CODE TO:

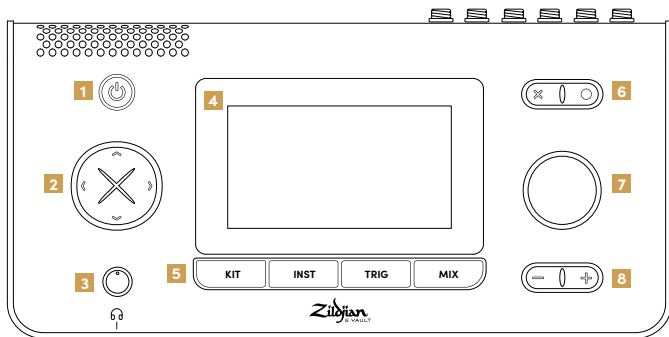
1. View videos for drum kit setup
2. Download firmware and sound updates
3. View videos for module navigation and setup
4. Access the full digital User Manual

CONTENTS

1. E-VAULT MODULE	4
Top Panel	4
Rear Panel	5
2. SETUP	6
Mounting Plate	6
Connecting Drums	6
Connecting Cymbals	7
Connecting the Hihat	7
Kit Model Connections	8
3. GETTING STARTED	10
E-VAULT Workspaces	10
Power On/Off	11
First Time Setup	11
4. PLAYING	12
Playing Kits	12
Metronome Settings	13
Kit Mixer	14
Mix Hub	15
5. TRIGGER SETTINGS	16
Drum & Cymbal Inputs	16
HiHat Control Setup	17
6. IMPORTANT NOTICES	18
Specifications	18
Safety Information	19
Important Information	22

1. E-VAULT MODULE

TOP PANEL



1 POWER

Press the power button to turn the module on and off.

2 D-PAD

Use the directional buttons to navigate the screen and select various controls and settings.

3 HEADPHONES

Connect headphones to the 1/4" (6.35mm) output jack and turn the knob to adjust the volume.

4 TOUCHSCREEN

The touchscreen interface enables interactive control over system navigation and settings.

5 WORKSPACES

Press a workspace shortcut button to access its screens and functions. To access the System Workspace, long press the [O] button.

6 ACTIONS

When the corresponding icons are displayed, press the [X] button to cancel actions and exit screens, or the [O] button to execute actions.

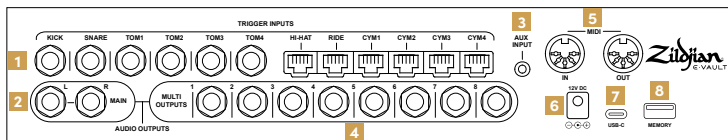
7 ENCODER

Turn the encoder knob to adjust the value of a control or setting.

8 MAIN VOLUME

Press the [-] and [+] buttons to adjust the main output volume in steps.

REAR PANEL



1 TRIGGER INPUTS

Connect the trigger outputs of the drums and cymbals to the corresponding trigger inputs on the module. Connect the drums using the included $\frac{1}{4}$ " (6.35mm) TRS jack cables. Connect the cymbals using the included RJ45 cables.

2 MAIN OUTPUT

Use $\frac{1}{4}$ " TRS jack cables (not included) to connect the MAIN L-R balanced outputs to a mixer, drum amplifier, or audio interface. Unbalanced TS jack cables can also be used.

3 AUX INPUT

Connect a stereo audio source using a $\frac{1}{8}$ " (3.5mm) TRS mini-jack cable (not included). The auxiliary input is designed for music players and audio devices that output a line level signal.

4 MULTI OUTPUTS

The module's multi-output matrix routes audio from instruments and groups to 8 balanced $\frac{1}{4}$ " TRS outputs. Connect these outputs to a mixer or audio interface.

5 MIDI IN / OUT

Connect an external MIDI device using 5-pin DIN cables (not included).

6 DC IN

Connect the included AC adapter.

7 USB-C

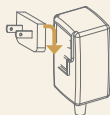
Use a USB-C cable (not included) to connect the module to a computer. Zildjian E-VAULT is a class-compliant audio device that supports multi-channel audio and MIDI data transmission.

8 MEMORY

Connect the included USB flash drive to carry out system updates and backups. The flash drive must be formatted before it can be used.

Format Flash Drive

1. From the **SYSTEM** workspace menu, access the System Settings screen.
2. Select the [Format] tab.
3. Insert the flash drive into the **MEMORY** slot.
4. Press the [Format USB Memory] button to format the drive.



About the Power Adapter

The included AC power adapter can be used worldwide.

Attach the included plug that is compatible with your country's power outlet type.

For safe operation, use only the included AC power adapter and plug.

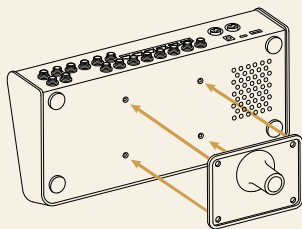
2. SETUP

MOUNTING PLATE

Affix the plate to the bottom panel

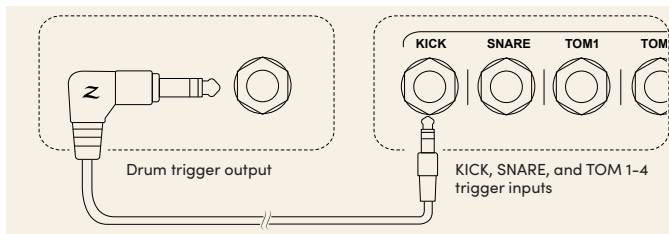
The supplied mounting plate is used to mount the module onto a compatible drum stand or rack.

1. Align the mounting plate with the screw holes and guides located on the module's bottom panel.
2. Attach the mounting plate using the included M5-10mm screws.



Attach the plate as shown

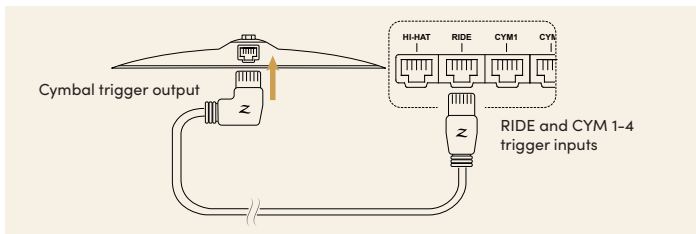
CONNECTING DRUMS



Connect the drums using the included $\frac{1}{4}$ " (6.35mm) TRS jack cables as shown.

1. Connect the drum trigger outputs to their corresponding trigger inputs (KICK, SNARE, TOM 1-4) on the module's rear panel.
2. Connect the right-angled end of the cable to the drum trigger output and the straight end to the jack input.
3. Secure the cables with the supplied cable ties.

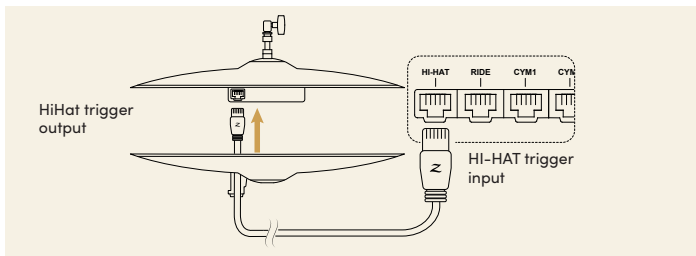
CONNECTING CYMBALS



Connect the cymbals using the included RJ45 cables as shown.

1. Connect the cymbals to their corresponding trigger inputs (RIDE, CYM 1-4) on the module's rear panel.
2. Connect the right-angled end of the cable to the cymbal and the straight end to the module input.
3. Secure the cables with the supplied cable ties.

CONNECTING THE HIHAT



1. To connect the hi-hat, run the straight-to-straight RJ45 cable up through the cable guide on the bottom cymbal and connect it to the terminal on the top cymbal. Connect the other end to the HI-HAT trigger input on the module's rear panel as shown.
2. Secure the cable with a cable tie.

KIT MODEL CONNECTIONS

Use the reference tables as a guide to connecting your kit model's drums and cymbals to the E-VAULT module's trigger inputs.

ALCHEM-E Gold EX

TRIGGER INPUT	INSTRUMENT	ITEM CODE
KICK	ALCHEM-E Gold 20" Bass	ZAG20BD
SNARE	ALCHEM-E Gold 14" Snare	ZAG14SD
TOM1	ALCHEM-E Gold 10" Tom	ZAG10T
TOM2	ALCHEM-E Gold 12" Tom	ZAG12T
TOM3	ALCHEM-E Gold 14" Floor Tom	ZAG14FT
TOM4	-	-
HI-HAT	14" E-FAMILY HiHat Pair	E14HH
RIDE	20" E-FAMILY Ride	E20R
CYM1	16" E-FAMILY Crash	E16C
CYM2	18" E-FAMILY Crash/Ride	E18CR
CYM3	-	-
CYM4	-	-

Free inputs enable you to expand your kit with additional drums and cymbals from our ALCHEM-E lineup.

ALCHEM-E Gold

TRIGGER INPUT	INSTRUMENT	ITEM CODE
KICK	ALCHEM-E Gold 18" Bass	ZAG18BD
SNARE	ALCHEM-E Gold 14" Snare	ZAG14SD
TOM1	ALCHEM-E Gold 10" Tom	ZAG10T
TOM2	-	-
TOM3	ALCHEM-E Gold 14" Floor Tom	ZAG14FT
TOM4	-	-
HI-HAT	14" E-FAMILY HiHat Pair	E14HH
RIDE	20" E-FAMILY Ride	E20R
CYM1	16" E-FAMILY Crash	E16C
CYM2	-	-
CYM3	-	-
CYM4	-	-

ALCHEM-E Bronze EX

TRIGGER INPUT	INSTRUMENT	ITEM CODE
KICK	ALCHEM-E Bronze 18" Bass	ZAB18BD
SNARE	ALCHEM-E Bronze 14" Snare	ZAB14SD
TOM1	ALCHEM-E Bronze 10" Drum	ZAB10
TOM2	ALCHEM-E Bronze 10" Drum	ZAB10
TOM3	ALCHEM-E Bronze 12" Drum	ZAB12
TOM4	-	-
HI-HAT	14" E-FAMILY HiHat Pair	E14HH
RIDE	18" E-FAMILY Crash/Ride	E18CR
CYM1	16" E-FAMILY Crash	E16C
CYM2	-	-
CYM3	-	-
CYM4	-	-

3. GETTING STARTED

E-VAULT WORKSPACES

The Zildjian E-VAULT System has five workspace areas that are instantly accessible via shortcut buttons. These shortcuts enable quick navigation to any system screen and function.



1 Kit Workspace

Press the [KIT] button to open the Kit Play screen. In the kit workspace, users can select, play, and edit kits. Screen functions for managing kit data can be accessed from the Kit Workspace Menu.

2 Instrument Workspace

Press the [INST] button to open the Instrument Selection screen. In the instrument workspace, users can select instruments to audition and edit. Screen functions for managing instrument data can be accessed from the Instrument Workspace Menu.

3 Trigger Workspace

Press the [TRIG] button to open the Drum - Cymbal Trigger settings screens. Trigger settings are stored by E-VAULT as **Trigger Profiles**.

4 Mix Workspace

Press the [MIX] button to open the Kit Mixer screens. In the Mix Hub screen, adjust levels for inputs, outputs, and set routing. Screens for Multi-Out routing and FX can be accessed from the Mix Workspace Menu.

5 System Workspace

Long press the [O] button to open the System Workspace Menu. From this menu users can access screens for managing system settings, MIDI setup, sounds data, and updates.

POWER ON | OFF

Turning the power on

1. Lower the volume of the connected amplifier and speakers.
2. Long press the power button to power on the module. Release the button when its LED is illuminated.
3. The Zildjian E-VAULT logo displays to confirm the system is starting up.

A message displays if the drums or cymbals are played during the startup. The drums or cymbals should not be played as a series of calibrations and checks are performed by the system.

Turning the power off

1. Lower the volume of the connected amplifier and speakers.
2. Long press the power button and release it when a message displays prompting you to confirm E-VAULT Shutdown by pressing the power button a second time.
3. The Zildjian E-VAULT logo displays to confirm the system is shutting down.

Do not disconnect the AC adapter to turn off the power.

FIRST TIME SETUP

Select Kit Model and Initialize Trigger Profile Settings

The **E-VAULT Setup** screen displays when the module starts for the first time. Follow the onscreen instructions to select your kit model and initialize default trigger profile settings.

1. Select the option that matches your **ALCHEM-E Kit Model**:
Gold EX, Gold, or Bronze EX. Press [Continue].
2. Select the trigger settings option that is closest to your dynamic playing style: **Light, Medium, or Heavy**. Press [Finish].

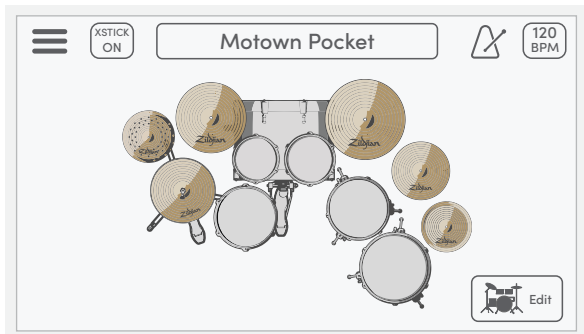
When the process is complete the Kit Play screen displays.

To adjust the trigger settings, press the **TRIG** button to access the Drums and Cymbals trigger settings screens.

4. PLAYING

PLAYING KITS

Press the **[KIT]** button to display the **Kit Play** screen. Select kits, play the metronome, and access other kit workspace screens.



Menu

Press the  menu icon to open the **Kit Workspace Menu** screen.

XSTICK Button

Press the **[XSTICK]** button to switch the snare drum's cross stick ON - OFF.

Kit Selection Box

Turn the encoder to select kits. Press the box to open the **Select Kit** screen.

Metronome

Press the  metronome icon to play and stop the metronome.

BPM | Settings Tabs

The box displays the metronome BPM. Press to open the **Settings Tabs**.

Kit View*

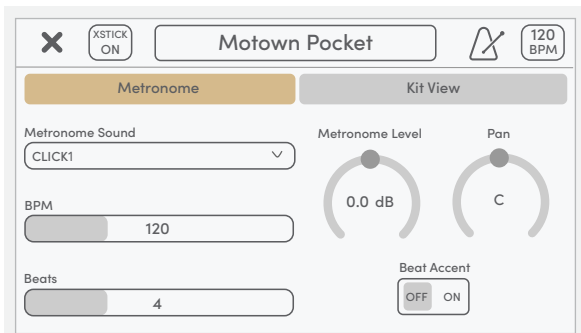
Kit View Modes visualize kit-instrument assignments and playing inputs.

Kit Edit Button

Press the  **[Edit]** button to open the **Edit Kit** screen.

METRONOME SETTINGS

Press the BPM box on the **Kit Play** screen to display the screen's settings tabs. The metronome settings tab is selected by default. Press the **[X]** icon to close the settings tabs.



Metronome Sound

Open the dropdown list to select between different metronome sounds.

BPM

Controls the tempo of the metronome. The setting range is 40 to 300 bpm.

Beats

Sets the number of beats in a measure. The setting range is 2 to 16 beats.

Metronome Level

Controls the Metronome Volume Level. This setting can also be adjusted on the **Mix Hub** screen.

Metronome Pan

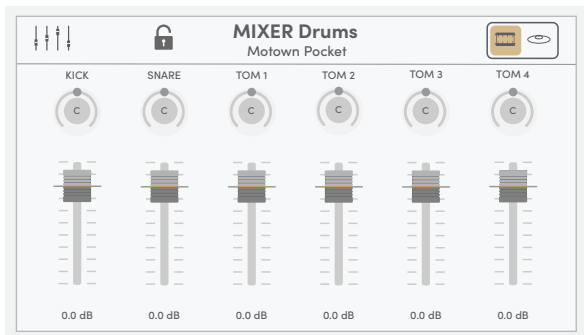
Controls the stereo panning position of the metronome sound.

Beat Accent

When set to ON, a different sound will play on the first beat of the measure.

KIT MIXER

Press the **[MIX]** button to open the kit mixer. The 12 mixer channels are split into drum and cymbal groups. Press the **Drum-Cymbal Selector** to switch between the mixer group views.



Mix Hub

Press the  mixer icon to open the **Mix Hub** screen.

Mixer Lock

Press the  lock icon to lock – unlock the pan and volume controls.

Mixer Information

Displays which mixer group is displayed and the currently selected Kit.

Drum-Cymbal Selector

Press to switch between the **MIXER Drums** and **MIXER Cymbals** group views.

Pan Controls

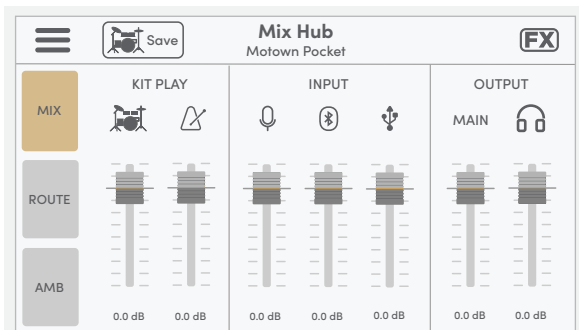
Select the rotary knob and adjust the stereo panning position of each drum and cymbal. The setting range is L63 ~ C ~ R63.

Volume Controls

Select the fader knob and adjust the volume level for each drum and cymbal. The setting range is -99.9 dB to +10.0 dB.

MIX HUB

The **Mix Hub** screen features mixing controls for various input and output channels. FX settings and other mix workspace functions can be accessed from the mix hub.



Menu

Press the  menu icon to open the **Mix Workspace Menu** screen.

Save Kit Button

Press the [ Save] button to save settings for the current kit.

FX*

Press the  icon to open the **FX** screen.

MIX | KIT PLAY Volume Controls

The faders control the Kit Volume Level and Metronome Volume Level.

MIX | INPUT Volume Controls

The faders control the input volume levels of stereo audio sources: AUX INPUT, Bluetooth, USB-IN.

MIX | OUTPUT Volume Controls

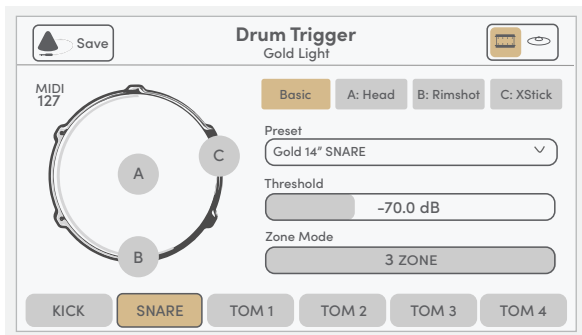
The faders control the MAIN OUTPUT volume level and Headphones level.

Tip: On the mixer screens, use the D-Pad to select a pan knob or volume fader, and then turn the encoder to set the value.

5. TRIGGER SETTINGS

DRUM & CYMBAL INPUTS

Press the **[TRIG]** button to open the **Drum Trigger** and **Cymbal Trigger** settings screens. Press the Drum-Cymbal Selector to switch screens and display corresponding buttons for selecting inputs.



Save Trigger Profile Button

Press the [Save] button to save the trigger settings (Trigger Profile).

Trigger Information

Displays the active trigger settings screen and the trigger profile.

Drum-Cymbal Selector

Press to switch between the **Drum Trigger** and **Cymbal Trigger** screens.

Trigger Input Indicators

Graphic indicators visualize the zone triggering for the selected input.

Trigger Settings Tabs

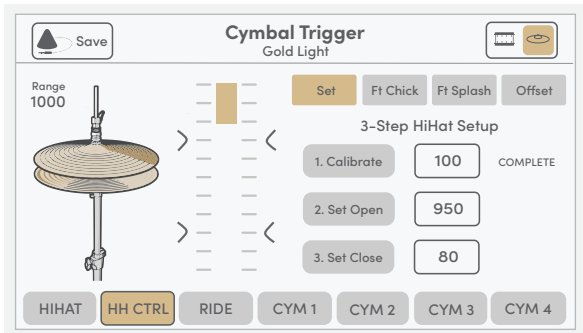
The tabs contain the trigger settings for the selected input. The organization of trigger settings in tabs is generally consistent across inputs:

[Basic] Preset, Threshold, Zone Mode

[Zone Tabs] Gain, Curve, Detection Sensitivity

HIHAT CONTROL SETUP

To set up the E-FAMILY hihat, access the **Cymbal Trigger** screen and press the **[HH CTRL]** button. The **[Set]** tab displays the three step buttons used to set up the open-close control function.



The scale-bar graphic and **Range** value indicate the current position of the hihat top cymbal relative to the bottom cymbal. To set up the open-close control function, follow the instructions for each step shown below.

Step 1: Calibrate

Unlock the hihat clutch and allow the top cymbal to rest on the bottom cymbal. Press the **[1. Calibrate]** button to set the calibration point.

Step 2: Set Open Point

Lift the top cymbal to your desired height and lock the hihat clutch. You should see the indicator bar and range value start to change. Press the **[2. Set Open]** button. The open point value is set and shown on the scale.

Step 3: Set Close Point

Close the hihat with natural foot pressure. Press the **[3. Set Close]** button when the range value is lower than the calibration and set open point values. The close point value is set and shown on the scale.

Each step can be performed independently when required. The system displays the message 'COMPLETE' when a step is completed correctly. The instruction message 'RETRY' displays when an invalid value (INV) is set.

6. IMPORTANT NOTICES

SPECIFICATIONS

The specifications and appearance of this product are subject to change without notice for improvement.

Display	5" Touchscreen LCD, 1280 x 720 LED Backlit Buttons
Connectors	TRIGGER INPUTS jack x 6: 1/4-inch (6.35mm) TRS phone type TRIGGER INPUTS terminal x 6: RJ45 type (exclusive use with cymbals) AUDIO OUTPUTS (MAIN) jacks (L, R): 1/4-inch (6.35mm) TRS phone type, balanced AUDIO OUTPUTS (MULTI OUTPUTS) jack x 8: 1/4-inch (6.35mm) TRS phone type, balanced HEADPHONES jack: Stereo 1/4-inch (6.35mm) phone type (32 ohms recommended) AUX INPUT jack, Stereo 1/8-inch (3.5mm) miniature phone type MIDI (IN, OUT) 5-PIN DIN Connectors USB-C port: USB-C type, supports high-speed MIDI and multi-channel audio MEMORY: USB Flash Drive (FAT32, 32GB maximum) DC IN jack
USB Audio	Zildjian E-VAULT is a USB Class Compliant audio device 48 kHz, 16-bit audio Output: 10 channels Input: 2 channels
Bluetooth	Input: 2 Channel, Stereo (A2DP)
Power Source	AC Adapter (DC 12V)
Current Consumption*	2A
Dimensions	300 (W) x 166 (D) x 78.9 (H) mm 13 (W) x 6-9/16 (D) x 3-1/8 (H) inches
Weight	2.19 kg/4 lbs 13.1 oz
Accessories	Quick Start Guide 12V DC 2.0A 24W Power Adapter 32GB USB Flash Drive Microfiber Cleaning Cloth Mounting Plate (Black, with four M5 x 10mm screws)

*Average current consumption is around 1.6A

About E-VAULT System Updates: Scan the QR code at the front of this guide and navigate to the support and downloads area. Refer to the *E-VAULT User Manual* for full instructions on installing firmware and sound updates.

SAFETY INFORMATION

Important Safety Instructions and Warnings.

Please read carefully before using the device. Make sure to follow all instructions and warnings as failure to do so may result in injury and/or property damage. Keep these instructions for future reference.

About Warnings and Cautions

 WARNING	Indicates a hazard that could result in death or serious injury
 CAUTION	Indicates a hazard that could result in injury or property damage

About the Symbols

	"Caution": Calls your attention to a point of caution
	"Do not ...": Indicates a prohibited action
	"You must ...": Indicates a required action

 WARNING	
	Use only the included or designated power supply Ensure that power cord is grounded and plugged into an outlet with a protective earthing connection Use only the correct voltage connection for your area When plugging in or unplugging the instrument, grip and pull from the plug, not the cord. Pulling on the cord may damage it and lead to an electric shock which could cause injury or death.
	 Do not handle the power supply with wet or damp hands to prevent the risk of electric shock which may cause injury or death.
	If the AC adapter cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the instrument, or if any unusual smells should appear to be caused by it, immediately turn off the power switch, disconnect the adapter plug from the outlet, and have the instrument inspected by qualified service personnel. Using a damaged power supply can lead to fire or electric shock.
	Do not excessively bend, place heavy items on, or otherwise damage the power supply cord. A damaged power supply can lead to fire or electric shock.
	Always keep small parts away from children and pets as they could be ingested leading to injury or death. To prevent injury, do not let children use the instrument without adult supervision.

SAFETY INFORMATION (CONTINUED)

 WARNING	
	Do not expose to direct sunlight, extreme temperatures (hot or cold), humidity, excessive dust or direct strong vibrations or shocks or close to magnetic fields.
	Do not expose to rain, use it near water or in damp conditions. Do not place any containers containing liquids onto the module.
	Do not place in a position where anyone could walk on, trip over or roll anything over the power or connecting cords. This could lead to injury or damage to the instrument.
	Do not place the instrument in an unstable position where it may fall over as this could lead to injury or damage to the instrument.

 CAUTION	
	Unplug the power supply when not in use or in the event of electrical storms.
	Periodically clean the plug and remove any dust which may have accumulated. Do not use the power supply if the plug is dusty as this can cause fire or electric shock.
	Do not use the power supply near heat sources such as heaters or radiators as this could cause the power supply to overheat, risking burns or fire.
	Before connecting to other devices, turn off the power to all instruments. This will help prevent malfunction and/or damage.
	Do not connect the power supply to an electrical outlet using a power strip. This can result in reduced sound quality or possibly cause overheating in the outlet, leading to risk of fire.
	This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high-volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

SAFETY INFORMATION (CONTINUED)



CAUTION

	Do not use the supplied power adapter or cord with other electronic devices.
	Avoid plugging the power supply into outlets with other high power consumption appliances such as electric heaters or ovens.
	Turning off the instrument does not disconnect it from the power supply. To ensure the instrument is completely powered down, the power cord must be removed from the outlet.
	Do not rest your weight on, or place heavy objects on the instrument or use excessive force on the buttons, knobs or connectors.
	Allow for adequate air circulation and avoid obstructing vents on the module to avoid internal heat buildup. An over heated module could lead to burns and damage to the instrument.
	Disconnect all cables before moving.
	Do not allow any paper, metallic or other objects into the instruments. If this occurs, unplug the instrument and have it inspected by a qualified service personnel.
	Do not drop the product or subject it to high impact as this could damage the instrument.
	The instrument should only be used with supplied or manufactured recommended components. If a third-party component is used, please observe all safety marking accompanying that product.
	Do not open the module, there are no user-serviceable parts inside.

IMPORTANT INFORMATION

Preventing Data Loss

- Data stored in the module can be lost due to equipment failure, incorrect operation, or other causes. Creating regular back ups can protect you from any data loss.
- Zildjian assumes no liability regarding any data loss.

Packaging Disposal

- You must comply with the waste disposal regulations in your locality when disposing of the packaging the instrument was shipped in.

Connecting and using a USB Flash Drive

- Prior to inserting the USB drive into the module, discharge all static electricity from your person to prevent damage
- Do not remove the USB drive while reading or writing is in progress.

Intellectual Property Rights

- The copyright of content in this product (the sound waveform data, style data, accompaniment patterns, phrase data, audio loops and image data) is reserved by Zildjian.
- The original content and any subsequent sounds provided by Zildjian are for personal use by the purchaser and for use in the production and distribution of original compositions. Do not use the instrument in any way that could infringe on another's copyright. Zildjian assumes no liability regarding any infringements of a third-party's copyright arising through your use of the instrument.
- The included content and any subsequent sounds provided by Zildjian cannot be extracted and distributed in original or modified form.

About this Document

- Zildjian E-VAULT Electronic Drum Module Quick Start Guide (ZAQSG):
Version 1.0

For EU countries, and UK



Avedis Zildjian Co. hereby declares that the type of radio equipment Zildjian ALCHEM-E (ZEV1, ZABEX, ZAG, ZAGEX) complies with Directive 2014/53/EU (CE), and 2017 No.1206 (UKCA). The full text of the EU Declaration of Conformity is available at: <https://zildjian.com/pages/alchem-e-support>



This symbol on the product means that used electrical and electronic equipment should not be mixed with general household waste. The correct disposal will help prevent potential negative effects on human health and the environment. For proper treatment, recovery and recycling, please contact your city office, waste disposal servicer or the shop which you purchased the product.

For the USA



WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

FCC INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

RF Exposure Statements:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

Avedis Zildjian Company

22 Longwater Drive, Norwell,
Massachusetts 02061, USA
Tel: 1-781-607-2424

How to display this product's FCC ID

With the device powered on, follow the steps:

Step 1 - Press the [O] button for two seconds.

Step 2 - Press the [⚙️ Settings] button.

Step 3 - On the System Settings screen, select the [Info] tab to display the FCC ID.



E·VAULT

AN IMMERSIVE ELEVATED
ELECTRONIC EXPERIENCE

ZAQSG