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VHS7040

# YAMAHA EAD50

## ELECTRONIC ACOUSTIC DRUM MODULE

### Quick Guide

#### About EAD50

Thank you for purchasing this Yamaha product, Electric Acoustic Drum Module EAD50. The EAD50 is a product that captures the entire drum kit by one drum sensor unit, allowing you to create authentic drum sounds by mixing effects settings or volume adjustments to both the sound of acoustic drum performance input from the microphone and the electronic drum sound produced by the signal input from the trigger jack while performing.

To get the most out of your EAD50, be sure to read this Owner's Manual carefully. And after reading through this manual, be sure to store it in a safe place so that you can refer back to it again as needed.

#### About the manuals

##### Included manual

**Quick Guide (This manual)** : Explains how to attach and setup the EAD50 for producing sound, and function of each part.

##### Digital Manual (PDF)

**User Guide** : Explains all the functions of EAD50.

**Data List** : This provides lists of Scene and Effect names in the EAD50, and MIDI related information.

**Smart Device Connection Manual** : Describes how to connect smartphones and tablets.

The digital format manuals listed above can be obtained from the Yamaha Downloads web page.

To do so, go to the web page using the following URL, enter "EAD50" in the "Model Name" field, and then click "Search."

Yamaha Downloads: <https://download.yamaha.com/>

#### About related Apps

<https://jp.yamaha.com/products/apps/index.html>

##### EAD Touch

EAD Touch is an app designed to be used in combination with EAD50. It allows you to intuitively operate the various features of EAD50, such as voice editing, microphone and trigger settings, and input/output routing, thorough a graphical interface. It provides powerful support for drummers to use EAD50 in live performances, recording sessions, and streaming.

##### Rec'n'Share

With Rec'n'Share, you can easily play, record, film, edit, and upload your favorite songs. It powerfully supports your practice, recording, and performance activities.

#### Included Accessories

Depending on the country in which you purchased the product, AC adaptor may not be included.

- EAD50 Quick Guide (This manual) x1
- AC adaptor x1
- Module holder x1
- Module holder wing bolts x4
- Standard stereo phone cable (4 m) x1 (hereinafter referred to as a phone cable)
- 3-pin XLR cable (3.1 m) x2
- Cable bands x3
- Cubase AI download information x1
- Safety guide x1

##### DSU50

- DSU50 x1
- Stereo 5-pin XLR microphone cable (1.4 m, with cable band) x1 (hereinafter referred to as a stereo XLR cable)
- Adhesive cushions x2

## PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe and handy place for future reference.

### WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

#### Power supply

- Do not place the power cord near heat sources such as heaters or radiators. Also, do not excessively bend or otherwise damage the cord, or place heavy objects on it.
- Do not touch the product or the power plug during an electrical storm.
- Use only the correct voltage specified for the product. The required voltage is printed on the name plate of the product.
- Use only the supplied AC adaptor, power cord.
- Do not use the supplied AC adaptor for other devices.
- Check the power plug periodically and remove any dirt or dust which may have accumulated on it.
- Insert the power plug firmly all the way into the AC outlet. Using the product when it is not plugged in sufficiently can cause dust to accumulate on the plug, possibly resulting in fire or skin burns.
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. Even when the power switch is turned off, as long as the power cord is not unplugged from the wall AC outlet, the product will not be disconnected from the power source.
- Do not connect the product to an electrical outlet using a multi-plug outlet extender. Doing so can result in lower sound quality, or possibly cause fire at or around the outlet.
- When disconnecting the power plug, always hold the plug itself and not the cord. Pulling by the cord can damage it and cause electric shock or fire.
- If not using the product for long periods of time, be sure to pull the power plug from the AC outlet.

#### Do not disassemble

- This product contains no user-serviceable parts. Do not attempt to disassemble the internal parts or modify them in any way.

### CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the product or other property. These precautions include, but are not limited to, the following:

#### Assemble

- Assemble the instrument in the proper sequence by following the assembly instructions in this manual. Also, make sure to tighten the screws or bolts regularly. Failure to do so might result in damage to the instrument or even injury.

#### Location

- Do not place the product in an unstable position or a location with excessive vibration, where it might accidentally fall over, resulting in malfunction and even injury.
- Before moving the product, remove all connected cables, to prevent damage to the cables or injury to anyone who might trip over them.
- Only the stand specified for the product. When attaching it, use the included screws only. Failure to do so could result in the product falling over, causing damage to the product or injury.

#### Connections

- Before connecting the product to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.
- Be sure to set the volumes of all devices at their minimum levels and gradually raise the volume controls while playing the product to set the desired listening level.

#### NOTICE

To avoid the possibility of malfunction/ damage to the product, damage to data, or damage to other property, follow the notices below.

#### Handling

- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV, or radio may generate noise. When you use the instrument along with an application on your smart device such as a smartphone or tablet, we recommend that you set Wi-Fi to on after setting "Airplane Mode" to on the device to avoid noise caused by communication.
- Use a USB cable of less than 3 meters.
- Do not expose the product to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of disfiguration, damage to the internal components or unstable operation.
- Do not place vinyl, plastic or rubber objects on the product, since this might discolor the product.
- Always turn the power off when the product is not in use.
- Even when the (b) (On) switch is in standby status (display is off), electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure you unplug the power cord from the wall AC outlet.

#### Maintenance

- When cleaning the product, use a soft and dry (or slightly damp) cloth. Do not use paint thinners, solvents, alcohol, cleaning fluids, or chemical-impregnated wiping cloths.

#### Saving data

- System settings are stored automatically and will not be lost when the power is turned off. However, settings may be lost due to malfunction or improper operation. Save important data to an external device such as a USB flash drive, SD card, or a computer.

The model number, serial number, power requirements, etc., may be found on or near the name plate, which is at the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

#### Water warning

- Do not expose the product to rain, use it near water or in damp or wet conditions, or on or in any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings or places where water may drop. A liquid such as water getting into the product may cause fire, electric shock, or malfunctions.
- Use the AC adaptor indoors only. Do not use it in any wet environments.
- Never insert or remove a power plug with wet hands.

#### Fire warning

- Do not place any burning items or open flames near the product, since they may cause fire.

#### Wireless unit

- Radio waves from this product may affect electro-medical devices, such as a heart pacemaker implant or defibrillator implant.
  - Do not use the product near medical devices or inside medical facilities.
  - Radio waves from this product may affect electro-medical devices.
- Do not use the product within 15 cm (6 in.) of persons with a heart pacemaker implant or a defibrillator implant.

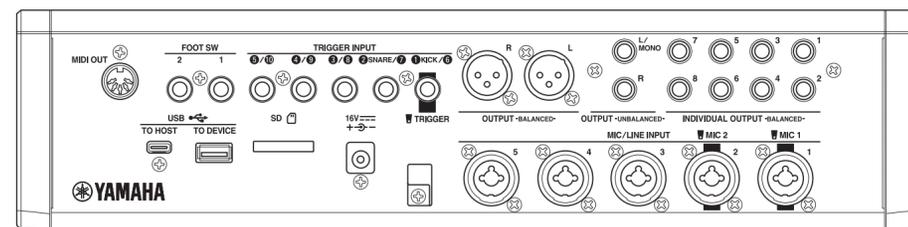
#### Connections

- Be sure to read the manual of the device to be connected, and follow the instructions. Failure to observe this may cause fire, overheating, rupture, or malfunction.

#### If you notice any abnormality

- If any of the following problems occur, immediately turn off the power switch and disconnect the power plug from the outlet. Finally have the device inspected by Yamaha service personnel.
  - The power cord or plug becomes frayed or damaged.
  - Unusual smells or smoke are emitted.
  - Some object, or water has been dropped into the product.
  - There is a sudden loss of sound during use of the product.
  - Cracks or other visible damage appear on the product.

## Connection Guide

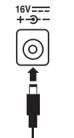


#### Connecting the AC adaptor

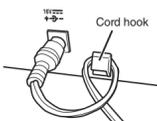
##### 1 Connect the adaptor.

#### WARNING

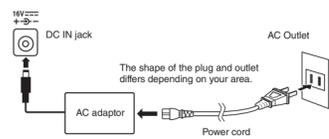
- Make sure to use only the included AC adaptor.



##### 2 Wrap the AC adaptor's cord around the cord hook to secure it in place.



##### 3 Plug the AC adaptor's AC plug into a domestic power outlet.



#### Attaching the Sensor Unit (DSU50)

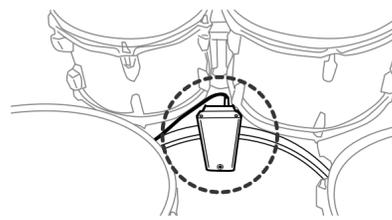
Attach the Sensor Unit to the top of the batter side of the bass drum hoop.

#### NOTICE

- Make sure the Sensor Unit or plugs do not touch any of the toms or other instruments.

#### NOTE

- For detailed installation instructions, refer to the included DSU50 Owner's Manual.



#### Connecting Headphones

Connect the headphones to the [PHONES] jack.

#### NOTICE

- Two jack types are available. Use the appropriate jack according to the plug shape of your headphones. If both jacks are used at the same time, the output of each jack may be reduced.

#### NOTE

- To make EAD sounds easier to hear, we recommend using in-ear monitors or closed-back headphones that block external noise. When external sounds (such as acoustic drum sounds) are mixed in, the sound may not be the same as intended.

- If your headphones have low sound isolation, the volume may feel low. If you feel the volume is insufficient, adjust the parameters on the following screen.
  - [MENU] → Output → Output Gain → Phones Out

#### Connecting to a PA System

Connect the [OUTPUT-BALANCED] jacks or [OUTPUT-UNBALANCED] jacks to the PA system.

#### NOTICE

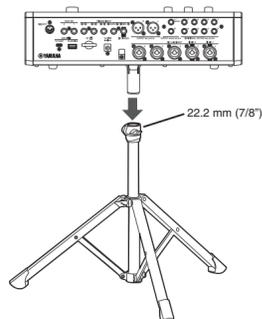
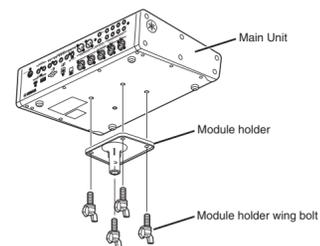
- Whenever connecting other devices, make sure that plugs on the cables you are using match the jacks on each device.

#### Installing the Main Unit

Either place the Main Unit on a table, or mount on the stand using the included module holder.

#### NOTE

- The module holder has a diameter of 22.2 mm (7/8").



#### Connecting the Cables

#### CAUTION

- Do not connect or disconnect cables while the power is on.

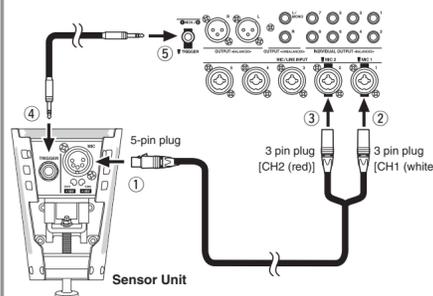
##### 1 Connect the 5-pin plug of the included stereo XLR cable to the MIC jack ① on the Sensor Unit.

##### 2 Connect the 3-pin [CH1 (white)] plug to the MIC 1 jack ② on the rear of the EAD50, and connect the [CH2 (red)] plug to the MIC 2 jack ③.

#### NOTE

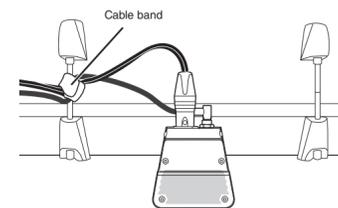
- If the distance to the main unit is too long, extend the cable using the included 3-pin XLR cable to enable connection.

##### 3 Connect the included phone cable to the TRIGGER jack ④ on the DSU50, and connect the other end to the TRIGGER INPUT jack ⑤ on the EAD50.



#### Securing the Cables

Secure the connector cables close to the Sensor Unit using the cable band wrapped around the Stereo XLR cable.

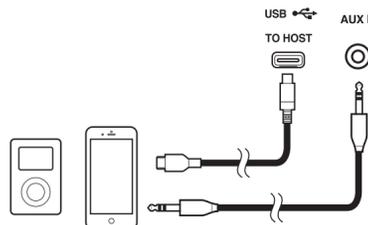


#### Connecting a Portable Music Player

Connect your smartphone or portable music player to the [USB TO HOST] terminal (USB Type-C™) on the rear or the [AUX IN] jack on the front.

#### NOTE

- For connection using the [USB TO HOST] terminal, please refer to the Smart Device Connection Manual.
- The Bluetooth connection is described on the back of this sheet.



## YAMAHA

### LIMITED WARRANTY FOR CUSTOMERS IN THE UNITED STATES

For a copy of your YAMAHA® Limited Warranty, please visit the website identified below. For assistance, additional product information, or to request a copy of your warranty, you may also visit and complete the Customer Service & Support form at [www.usa.yamaha.com/support/contacts/form.html](http://www.usa.yamaha.com/support/contacts/form.html), or contact Customer Service & Support at the below address or telephone number.

Website

[www.usa.yamaha.com/support/warranty/drums/](http://www.usa.yamaha.com/support/warranty/drums/)

Customer Service & Support  
Yamaha Corporation of America  
Attn: Customer Service  
6600 Orangethorpe Avenue, Buena Park,  
California 90620  
Telephone: 800-854-1569

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

(502-M01 UL 60065-1 en 01)

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

(554-M03 FCC mobile SAR 01)

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

(555-M04 ISED mobile SAR 01)

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

(555-M13 ISED RSS 01)

(1003-M06 plate bottom en 01)

# Controls and Functions

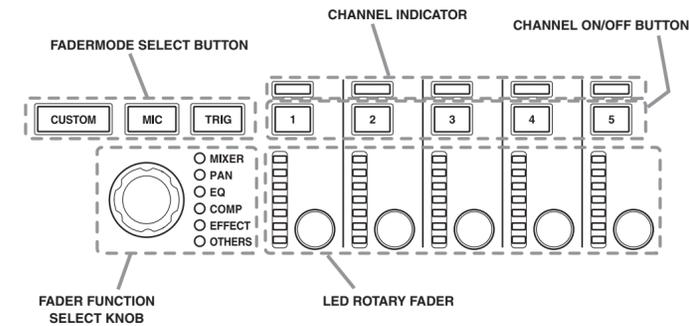
## Mode select button

- SCENE** Mode for recalling Scenes with a one action
- MIC/ TRIG** Mode for configuring microphone audio and trigger sounds
- CLICK** Mode for playing click sounds (metronome) and adjusting related settings
- RECORDER** Mode for recording and playback (Recorder), loop performance (Looper), and importing sample audio (Sampling)
- LIVE SET** \* Press the [RECORDER] button repeatedly to switch modes.
- MENU** Mode for arranging and switching scenes to create Live Set for live performance
- MENU** Mode for configuring detailed settings on the main unit

## Screen control buttons

- Use the [F] buttons (F1 to F3) and the [Alt] button to operate the functions displayed at the bottom of the screen.
- If the F1 to F3 buttons alone are insufficient for operating a function, pressing the [Alt] button will switch the operation assigned to the [F] button.
- NOTE**
- The "F1-F3" and "Alt" indication in the left illustration are for explanation purposes only. Actual buttons do not have button names.

## LED rotary fader



Using the Fader Function Select Knob and five faders, you can intuitively adjust microphone inputs in [MIC] mode, trigger inputs in [TRIG] mode, and EQ or external audio source parameters in [CUSTOM] mode.

### FADERMODE SELECT BUTTON

- [MIC]mode: Adjust microphone input volume, pan, EQ, compression, effects, etc.
- [TRIG]mode: Adjust trigger input volume, pan, EQ, compression, and effects.
- [CUSTOM]mode: Adjust various settings such as EQ, click sound.

### CHANNEL ON/OFF BUTTON

Turns each channel of the microphone or trigger on or off. When pairing, pressing either button will turn the channels on/off simultaneously.

### CHANNEL INDICATOR

The paired channels are indicated by various lighting patterns. For example, in [MIC] mode, paired channels light up in the same color. In [TRIG] mode, the pairing status of each channel is indicated by blue or yellow lighting. For details, please refer to the user guide. Unpaired channels also remain faintly illuminated at all times to ensure panel visibility on dark environments such as stage.

From time to time, Yamaha may update product firmware without prior notice. The latest firmware and corresponding manuals can be downloaded from the following website: <https://jp.yamaha.com/support> You can check the firmware version of this unit by going to Menu → Version.

# Quick Guide

## Turning On

- Lower the [OUTPUT] and [PHONES] sliders to set the volume levels to their minimum.
- Press the [⏻] (Standby/On) switch.



## Turning Off

- If the EAD50 is connected to a PA system, turn the external speakers off.
- Lower the [OUTPUT] and [PHONES] sliders to set the volume levels to their minimum.
- Hold down the [⏻] (Standby/On) switch.

The EAD50 is in Standby and the display and lights are off.

## Auto Power OFF

The Auto Power-Off function automatically turns off the Main Unit after a certain period of inactivity. The factory default is set at 15 minutes. Unsaved data (Scene, Live Set, Internally recorded audio) will be lost when the Main Unit is turned off with the Auto Power-Off function. Always store data before turning the power off. For information on Auto Power Off settings, please refer to the user guide.

## Adjusting the Volume with the Sliders

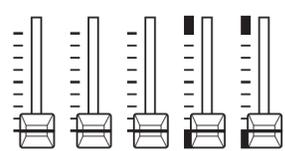
Adjust the volume levels for music input from external sources or when playing along with a metronome. Also adjust the output volume to PA equipment and the headphone volume as necessary.

- AUDIO:** [AUX IN], [USB TO HOST], Bluetooth audio, playback of internally recorded audio
- CLICK:** CLICK (Metronome)
- MIC/TRIG:** Microphone sound and TRIGGER sound (your own performance)
- OUTPUT:** Sound from OUTPUT-BALANCED, OUTPUT-UNBALANCED jack
- PHONES:** Sound from Headphones jack

### NOTE

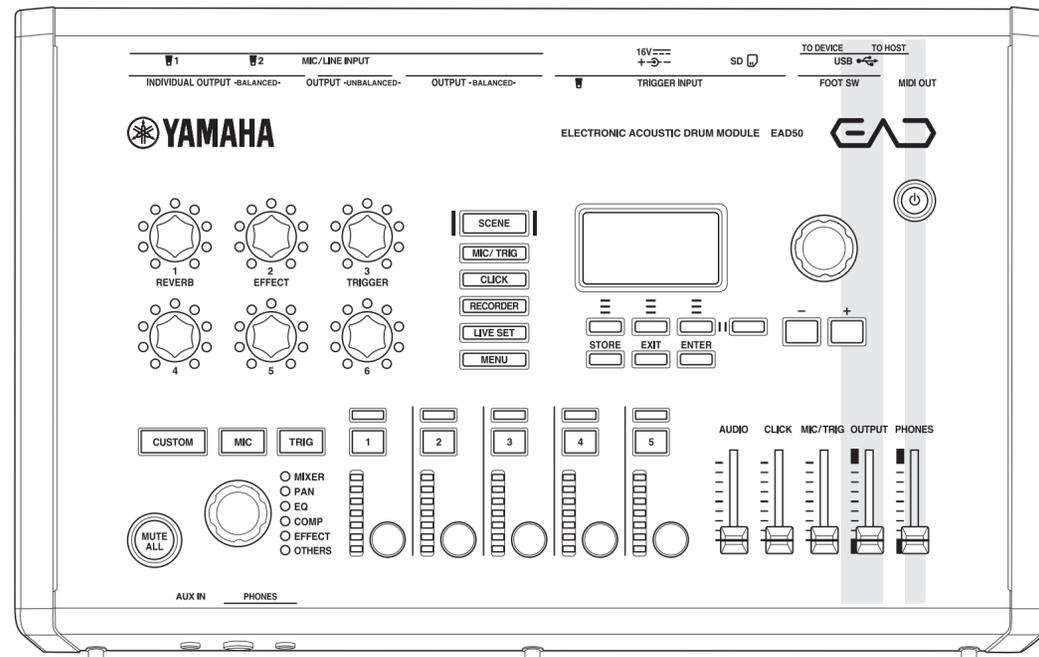
- Microphone sound: The sound of acoustic drum performance input from the microphone.
- Trigger sound: The electronic drum sound produced by the signal input from the trigger jack while performing.

AUDIO CLICK MIC/TRIG OUTPUT PHONES



### NOTE

- Pressing the [MUTE ALL] button stops phantom power supply and silences all audio output. This is useful for instantly muting unexpected feedback or other unwanted noise.



## Listening to Audio Data from a Smart Device on the EAD50

Depending on the country in which you purchased the product, the EAD50 may not have Bluetooth capability.

You can input the sound of the audio data saved to a Bluetooth-equipped device, such as a smart phone or digital audio player, to the EAD50 and listen to it through the headphones or speakers connected to the EAD50. This input audio data can be recorded.

### Pairing with a Bluetooth-equipped device

To connect a Bluetooth-equipped device for the first time, the Bluetooth-equipped device and the EAD50 must be paired. Once the device and the EAD50 are paired, it is not necessary to pair the two again (unless you've disabled pairing).

- Hold down the [MENU] button.

A screen prompt appears while the device is being paired. To cancel pairing, use the button below "CANCEL" (F3).



- Turn the Bluetooth setting ON on the Bluetooth-equipped device and select "EAD50 Audio (xxxxxx)" from the list.

Make sure to complete the settings on the smart device within 5 minutes. After that, the pairing mode ends automatically. If you are required to enter a passkey, enter the numerals "0000." When the pairing is completed, the [BT] (Bluetooth) mark appears on top screen for each mode.

- Play back audio data on the smart device to confirm that the headphones or speakers connected to the EAD50 are outputting the audio sound.

You can adjust the volume of the sound input via Bluetooth with the [AUDIO] slider.



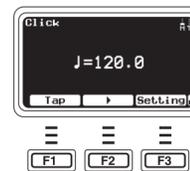
## Using the Click (Metronome)

Set the Click (Metronome) On/Off, tempo, and volume.

### Starting and Stopping the Click

- Press the [CLICK] button.

The CLICK screen appears.



- Press the button below "▶" (F2)

The Click (Metronome) starts. To stop the Click, press the same button again.

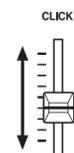
### Changing the tempo

Turn the [-][+] knob



### Setting the Click Beat Volume

Move the [CLICK] slider.



## Changing Scene

EAD50 includes numerous preset "Scene" featuring various settings such as effects for microphone sounds (acoustic drum sounds) and trigger sounds (electronic drum sounds). Switching scenes changes how the sounds are produced. Also, you can save Scene settings as User Scene. For details on User Scene, refer to the User Guide (PDF).

### Selecting a Scene

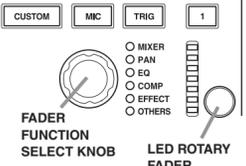
- Press the [SCENE] button.
- The Scene number and Scene name are displayed on the screen.
- Rotate the [-][+] knob to select the desired Scene.



## Adjusting the Balance

Adjust the volume balance between the sound picked up by the microphone and the trigger.

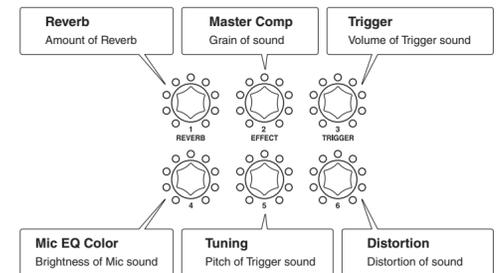
- Press the [MIC] button.
- Turn the Fader Function Select Knob to select [MIXER].
- Turn the Fader Function Select Knob while looking at the screen to display Volume on the screen.
- While playing, turn the LED Rotary Fader to adjust the microphone volume (Gain).
- Press the [TRIG] button.
- While playing, turn the LED Rotary Fader to adjust the Trigger volume (Volume).
- Repeat the above steps as necessary to adjust the balance between the microphone and trigger.



## Adjusting tone, volume and other settings by using Modifier Knobs

The parameters assigned to each knob vary depending on the Scene.

### Example: Parameters for each knob in Scene P001 VENUE



### NOTICE

After editing parameters, your edits will be lost if you select another Scene before saving (Storing) the Scene. To save the adjusted parameters as a user scene, press the STORE button and confirm with ENTER button. For details, please refer to the data list.

## Recording your performance

You can record your performances on the EAD50. By recording along with the input song via [AUX IN] jack, [USB TO HOST] jack or Bluetooth, you can layer your own performance over the song and record them together.

### Recording

- Press [RECORDER] button.
- Press the button below "●" (F1) to start recording.
- Play the drums.
- After finish playing, press the button below "■" (F1) to stop recording.



### Playing back

- Press the button below "▶" (F2) to start playback.
- To stop playback, press the button below "■" (F2).