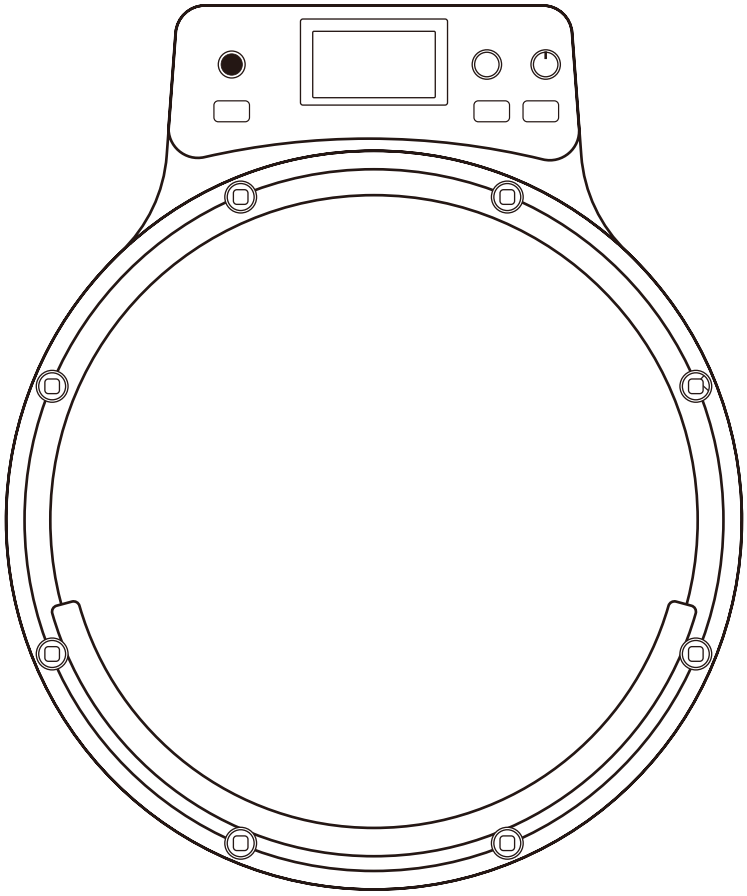
MEDELI



TP110

DIGITAL DRUM
OWNER'S MANUAL

INFORMATION FOR YOUR SAFETY!

THE FCC REGULATION WARNING (for USA)

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.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

CAUTION

The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the owner's manual. In case the function could not resume, please use the product in other location.

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

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

Power Supply
Please connect the designated AC adaptor to an AC outlet of the correct voltage.

Do not connect it to an AC outlet of voltage other than that for which your instrument is intended.

Unplug the AC power adaptor when not using the instrument, or during electrical storms.

Connections
Before connecting the instrument to other devices, turn off the power to all units. This will help prevent malfunction and / or damage to other devices.

Location
Do not expose the instrument to the following conditions to avoid deformation, discoloration, or more serious damage:

- Direct sunlight
- Extreme temperature or humidity
- Excessive dusty or dirty location
- Strong vibrations or shocks
- Close to magnetic fields

Interference with other electrical devices
Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

Cleaning
Clean only with a soft, dry cloth.Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Handling
Do not apply excessive force to the switches or controls.

Do not let paper, metallic, or other objects into the instrument. If this happens, remove the electric plug from the outlet. Then have the instrument inspected by qualifie dservice personnel.

Disconnect all cables before moving the instrument.

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Main Features

Comfort and Quietness
With the adjustable mesh drum pad, you can tune the head tension to your liking, providing a personal playing feel for effective practice. The unique second-generation mesh effectively reduces the noise produced during practice sessions.

High Quality Sounds
With 55 high-quality drum and percussion sounds plus 6 Click (metronome) sounds, the TP110 not only provides a natural feel, but reproduces expressive drum and percussion sounds delivering an authentic playing experience.

Coach Mode
There are 6 types of Coach Mode exercises uniquely designed to improve essential drumming skills at any level. The LCD displays real-time strike accuracy, as well as velocity during the Stroke Balance practice, allowing continuous monitoring and tracking of your progress.

Expandability
The dual-trigger input can allow to add a dual-trigger pad, two single zone pads, or add a cymbal and bass drum trigger for a small drum set-up.

Easy Portability
Lightweight and compact, the TP110 is easy to carry. It supports battery power as well as power banks, making practice possible anywhere anytime.

Bluetooth Connectivity
Connect to a Bluetooth device to play along with music or learn from your favorite lesson videos (via the headphone output).

Power Supply

While the TP110 can operate on batteries, we recommend using a USB-C cable for power supply as a more environmentally friendly option.

Using USB-C Cable:

1. USB-C Cable + Outlet: Connect the USB-C cable to an adapter and securely connect the output end to the drum's USB-C port.

2. USB-C Cable + Power Bank: Connect the USB-C cable to a power bank and securely connect the output end to the drum's USB-C port.

Using Batteries:

The TP110 uses four AA batteries. Before installation, ensure that the unit is powered off, and the [VOLUME] knob is turned all the way down.

1. Open the battery compartment cover at the bottom of the drum.

2. Insert the batteries, ensure that the battery polarity matches the markings.

3. Once the batteries are installed, close the cover and make sure it locks firmly in place.

Notes:

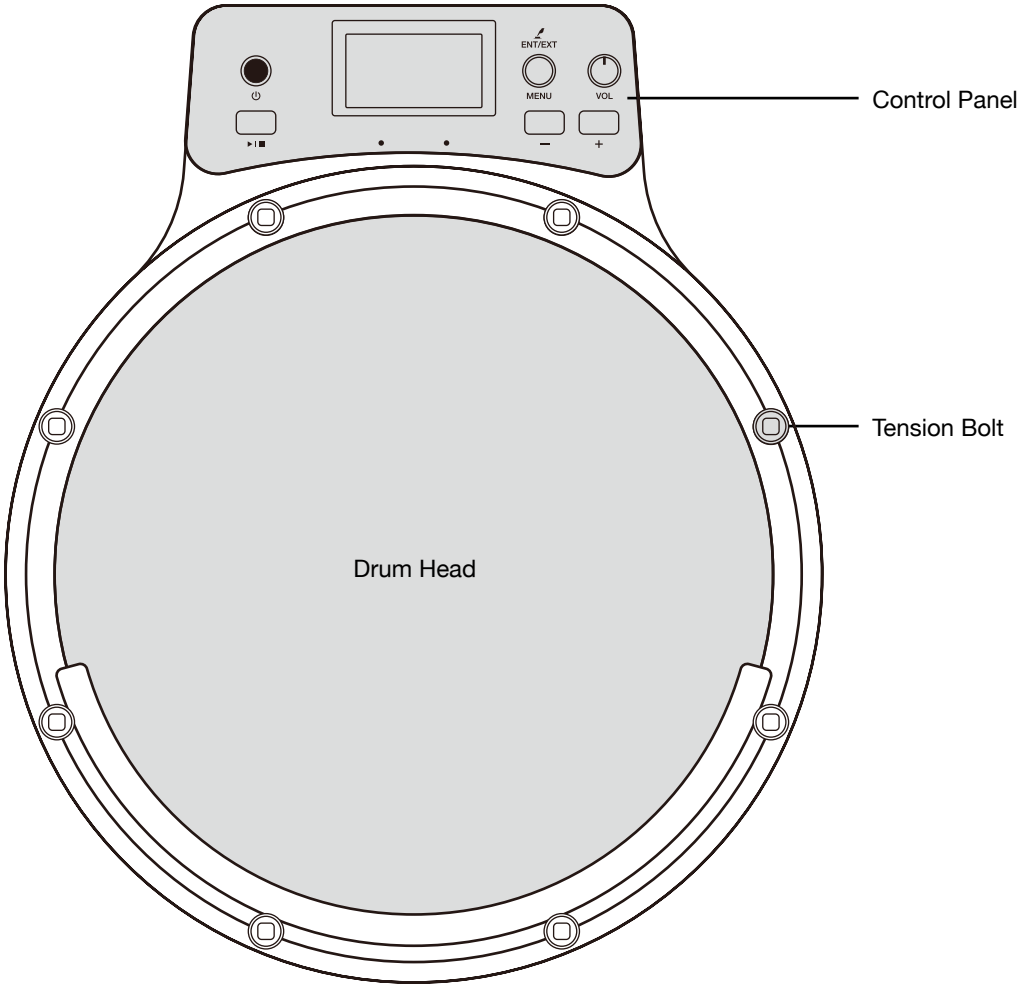
1. Do not mix different types of batteries; avoid using old and new batteries together.
2. Low battery power may result in decreased volume or diminished sound quality; replace with new batteries in such cases.
3. To avoid potential damage caused by battery leakage, remove the batteries if the drum will not be used for a long period.

4. After completing the above steps, it is safe to turn on the drum by pressing the [POWER] button.

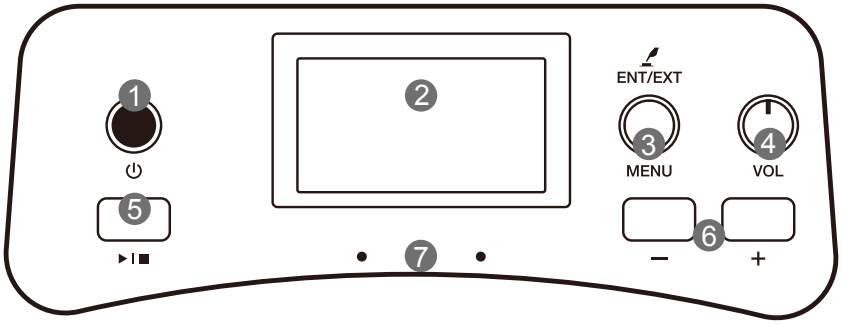
When operating on battery power, the LCD will display a battery level indicator:

- When the battery level is sufficient, the indicator will show full bars, and the system will operate normally.
- When the battery level is low, the indicator will show a single bar. The system will function normally, but some features might not perform optimally, such as pad sensitivity.
- When the battery is nearly depleted, the indicator will blink. Please replace the batteries.

Panel Description



Front Panel



1. **[POWER] Button**
   Turn the power on or off.

2. **LCD Display**
   Display current mode, status and function parameters.

3. **[MENU] Knob**
   Rotate to navigate through menus or types of parameters.
   Press to enter or exit a menu.

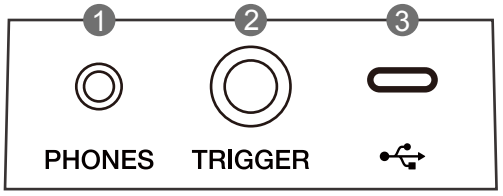
4. **[VOLUME] Knob**
   Adjust the overall output volume.

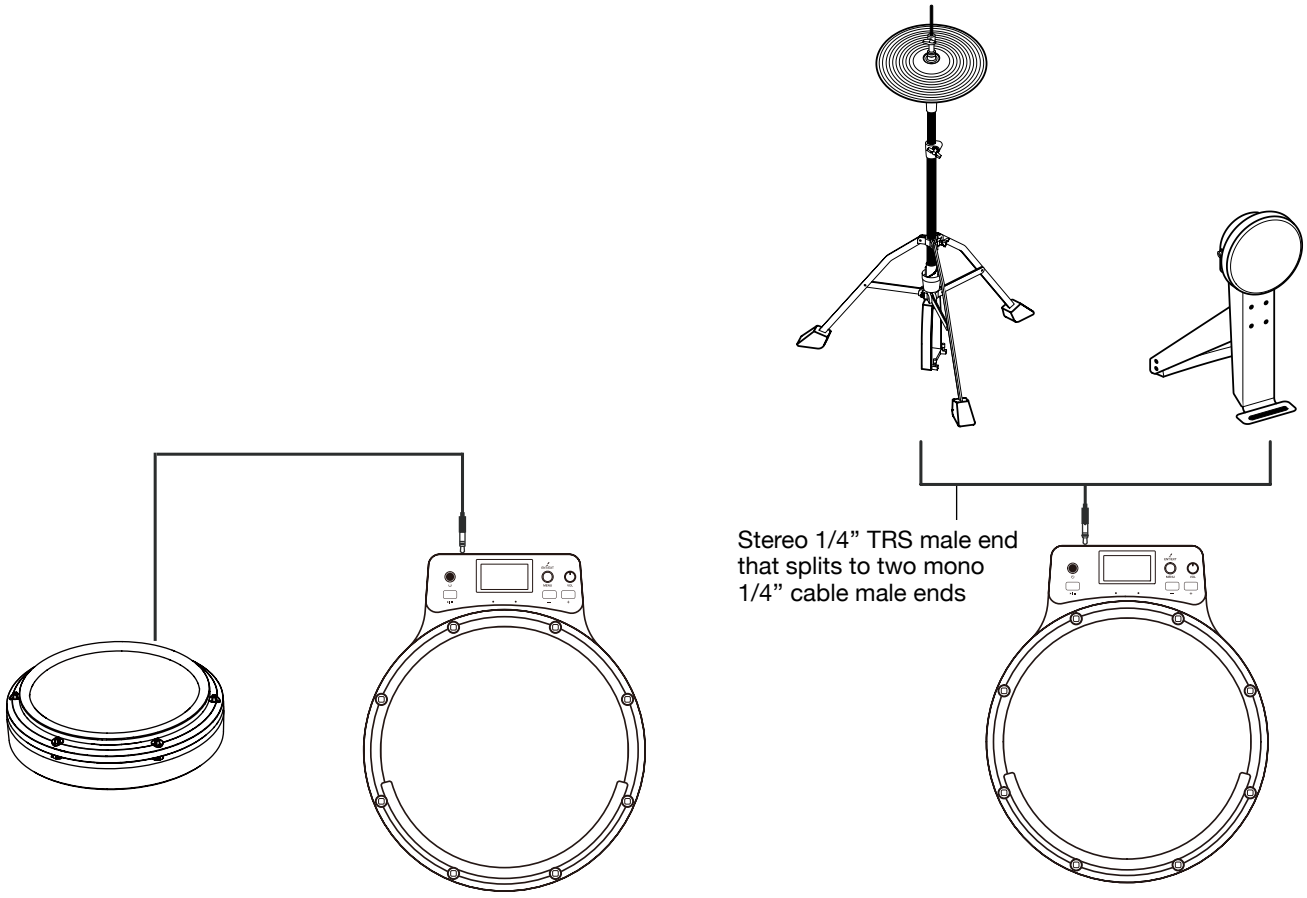
5. **[START/STOP] Button**
   Start/stop the metronome and practices.

6. **[+], [-] Buttons**
   Adjust the parameters displayed in the current menu.

7. **Metronome Indicators**
   The first beat flashes red while the other beats flash green.

Rear Panel





1. [PHONE] Stereo Output
For connecting headphones (3.5mm) or external speakers.

Notes:
1. Avoid using the drum with headphones at high volumes for extended periods, as this could cause hearing loss.
2. When connected to headphones, the unit’s built-in buzzer will be automatically muted, making it ideal for personal monitoring and nighttime practice while also minimizing disturbance to others.

2. [TRIGGER] Expansion Port
For connecting an external dual-zone trigger pad via a standard TRS cable (stereo 1/4”). You also have the option to use an insert cable (stereo 1/4” TRS to dual mono 1/4”) for connecting two separate single-zone pads.

3. [USB-C] Power Input
For connecting to a PC or power bank/adapter with 5V/1A power input.

Note:
The drum’s USB-C port is for power supply only.

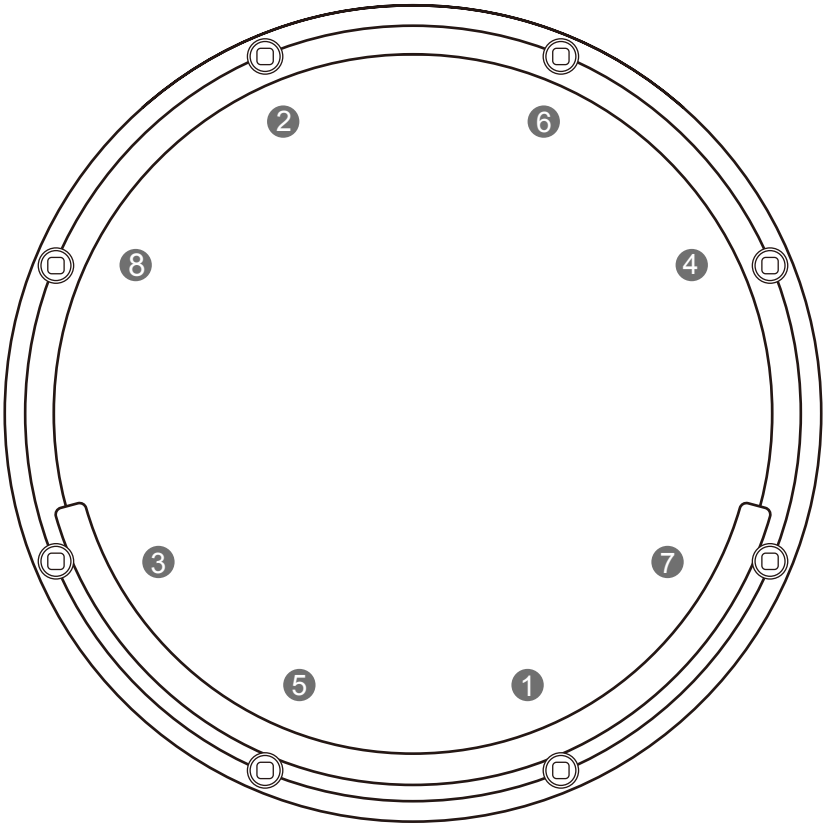
Adjust the Head Tension

1. Follow the order indicated in this image. Turn each key bolt around the head little by little to make the head tension even.

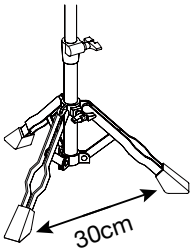
2. Make fine adjustment to each bolt and strike the pad to check the head response.

Notes:

1. When using it for the first time, please adjust the head tension for optimal playability.The head tension may change after using for some time. Adjust the head tension whenever it is necessary.
2. Turning a key bolt too much at one step will result in uneven head tension, and may cause malfunction.



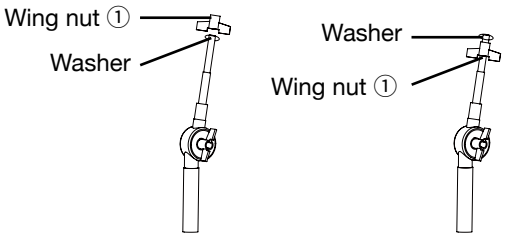
Note:
The drum does not include a drum stand. Please purchase it separately.



Mounting the drum on a stand.

1. Unfold the tripod. Make the legs spaced at least 30cm apart so the tripod stands stably.

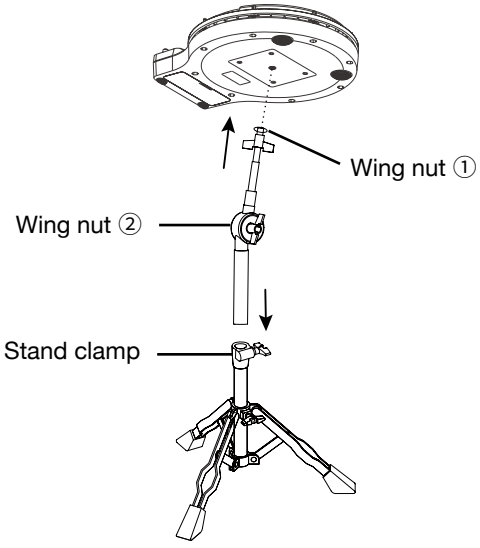
2. Remove the wing nut ① and washer from the drum holder. Then put wing nut ① back to the drum holder. Screw it all the way down. Put the washer through the drum holder, on top of wing nut ①.



3. Align the drum holder to the nut located on the bottom of the drum. Turn the drum holder clockwise until it's just about all the way in. Adjust the drum pad so it faces the player's position. Then turn wing nut ① clockwise to tighten it.

4. Mount the drum holder onto the tripod. Adjust the height of the stand, then secure it with the stand clamp.

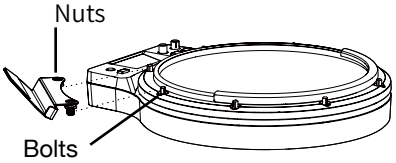
5. Untighten wing nut ② to adjust the pad angle, then tighten wing nut ② again.

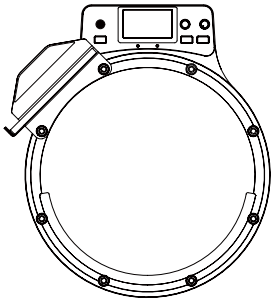


Note:
Be careful not to pinch your fingers when folding the tripod.

Mounting the phone holder on the drum

Align the bolt nuts located under the phone holder with the two square-head bolts of the drum pad, then insert the bolts into the nuts to secure the phone holder.





LCD Description

1. Click and Coach Mode: Shows the current Click and Coach Mode.

2. Power Status: Displays the current battery power status.

3. Bluetooth Icon: Indicates Bluetooth connection status (the icon will not be displayed if not connected).

4. MENU: Press [MENU] knob to enters Mode Menu when it is selected.

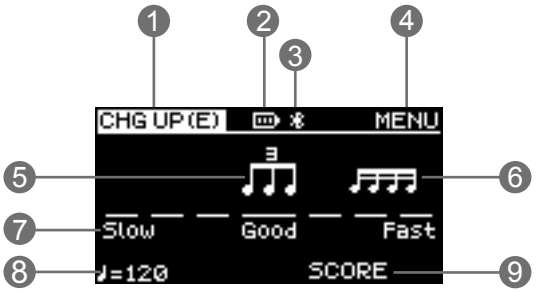
5. Current Rhythm: Shows the current rhythm pattern during the ongoing practice session.

6. Upcoming Rhythm: Cues the next rhythm pattern during the ongoing practice session.

7. Accuracy Detection: Displays the current stroke's accuracy, Slow (too slow), Good (correct), Fast (too fast).

8. Tempo and Beat: Shows the current tempo and beat type.

9. Score: Displays the player's real-time score during practice.



1. In the main display, turn the [MENU] knob to highlight an item that you wish to adjust.

2. If you want to go to Mode Menu, turn the [MENU] knob till the MENU is highlighted, then press the [MENU] knob.



Selecting a Mode

1. Turn the [MENU] knob to select a mode and press the [MENU] knob to enter.

2. If you wish to return to the main display, simply select “Exit” and press the [MENU] knob.



Mode	Description
Click	Enter Click settings.
Coach	Enter Coach mode.
Sound	Enter Sound settings.
Trigger	Enter Trigger settings.
Setup	Enter Setup menu.

Shortcut to Click and Coach Mode

1. When the drum is turned on, the main display will directly go to the Click and Coach mode for quick access to the practice session.



2. Changing the mode: when the mode name in the upper left corner is highlighted, use the [+] and [-] buttons to change the mode.

Mode abbreviation in the Click and Coach mode:

Mode Abbreviation	Description
CLICK	CLICK
BET CHK	Beat Check
QUT CNT	Quiet Count
GRL U/D	Gradual Up/Down
STK BLC	Stroke Balance
CHG UP	Change Up
SPD CHL	Speed Challenge



MENU



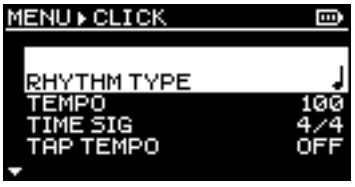
3. Adjusting parameters: when the mode name is highlighted, press the [MENU] knob to access the settings of that mode.



4. Adjusting the tempo: when the tempo is highlighted, use the [+] and [-] buttons to adjust the tempo.

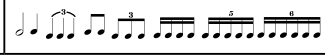
Using the Click (Metronome)

1. Select [CLICK] in the Mode menu and press the [MENU] button to enter Click settings.



2. Turn the [MENU] knob to select the parameter you want to adjust.

3. Use the [+] and [-] buttons to adjust the parameter. To return to the Mode menu, just press the [MENU] knob or select [EXIT] and press the the [MENU] knob.

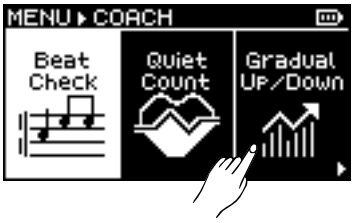
Click Parameter	Range / Options	Description
RHYTHM TYPE		Select the beat type.
TEMPO	20 ~ 300	Adjust the tempo (speed).
TIME SIG	2/4, 3/4, 4/4, 5/4, 7/4, 6/8, 9/8, 12/8, 13/8, 15/8, 17/8	Select the time signature.
TAP TEMPO	ON/OFF	Toggle Tap Tempo function on and off.
CLICK SOUND	Click/Beep/Stick/Cowbell/Shaker/Voice	Select the sound of the metronome.

Note:

The built-in buzzer cannot produce metronome sounds other than the default clicks. You have to use headphones/speakers to be able to hear other metronome sounds.

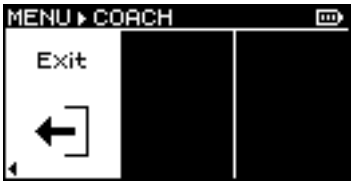
Selecting a Practice Type

1. Select “Coach” from the Mode menu and press the [MENU] button to enter Coach mode.



2. Turn the [MENU] knob to select the desired type of practice, then press the knob again to access practice settings.





3. To return to the previous page, simply choose [EXIT] and press the [MENU] knob.

Practice Type	Description
Beat Check	Establish sense of time and rhythm.
Quiet Count	Develop consistency over alternating bars of audible and muted clicks.
Gradual Up/Down	Build stamina and precision with a gradually changing tempo.
Stroke Balance	Strike with strength and balance, between right and left hands.
Change Up	Improve flexibility with varying rhythms.
Speed Challenge	Test your speed and dexterity.

Beat Check

Beat Check will allow you visually see if you are playing in time with the click in the “Slow/Good/Fast” display. Select a rhythm (such as eighth notes) and play along with the click to check your timing accuracy.

1. In Coach mode, turn the [MENU] knob to select “Beat Check” and press the knob to access practice settings.



2. Turn the [MENU] knob to choose a parameter you wish to adjust.

3. Use the [+]/ [-] buttons to adjust the parameter. Again, if you want to return to the previous menu to select other modes, simply press the [MENU] knob or select “EXIT” and press the [MENU] knob.

4. If you want to go to Mode Menu , turn the [MENU] knob till the MENU is highlighted, then press the [MENU] knob.

5. Press the [START/STOP] button to start the practice.

Parameter	Range / Options	Description
BEAT TYPE		Select the beat type.
TEMPO	20 ~ 300	Adjust the tempo.
BEAT GUIDE	ON/OFF	Turn the beat guide on or off. Beat Guide On: Click plays the beat type in the display. Beat Guide Off: Click does not play the beat type in the display.
SCORE	OFF/ON(8 Meas/16 Meas/32 Meas)	Turn the score display on or off.
TIMING GATE	OFF/Easy/Medium/Hard	Enable/disable accuracy difficulty levels. Timing Gate (Easy/Medium/Hard): Rhythms not played in time with the click, will not be heard. You can adjust the amount of difficulty. Timing Gate OFF: All rhythms played will be heard with the click.

Quiet Count

Quiet Count is designed to develop your sense of timing. Play a continuous rhythm and try to stay in time as the click goes “quiet” for a set number of bars and see if you are still in time when the metronome returns.

1. In Coach mode, select “Quiet Count” and press the knob to access practice settings.

2. Rotate the [MENU] knob to choose a parameter you wish to adjust.

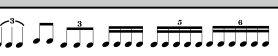
3. Use the [+] and [-] buttons to adjust the parameter.

4. Press the [START/STOP] button to start the practice.



Note:

When playing the quiet measures, the muted speaker icon will appear on the LCD.

Parameter	Range	Description
BEAT TYPE		Select a beat type.
TEMPO	20 ~ 300	Adjust the tempo.
BEAT GUIDE	ON/OFF	Turn the beat guide on or off. Beat Guide On: Click plays the beat type in the display. Beat Guide Off: Click does not play the beat type in the display.
SCORE	OFF/ON(8 Meas/16 Meas/32 Meas)	Turn the score display on or off.
CLICK MEAS	1 ~ 6	Set the number of measures with clicks.
QUIET MEAS	1 ~ 6	Set the number of measures with clicks muted.
TIMING GATE	OFF/Easy/Medium/Hard	Enable/disable accuracy difficulty levels. Timing Gate (Easy/Medium/Hard): Rhythms not played in time with the click, will not be heard. You can adjust the amount of difficulty. Timing Gate OFF: All rhythms played will be heard with the click.

Gradual Up/Down

Build your speed by playing a continuous rhythm (such as Paradiddles: RLRR LRLRR...) and keep in time as the click gets faster and focus on your articulation as the click slows down.



1. In Coach mode, select “Gradual Up/Down” and press the knob to access practice settings.
2. Turn the [MENU] knob to select a parameter.
3. Use the [+] and [-] buttons to adjust the parameter.
4. Press the [START/STOP] button to start the practice.

Parameter	Range / Options	Description
CLICK TYPE	♩♩ ♫ ♫ ♫ ♬	Select the beat type.
BEAT GUIDE	ON/OFF	Turn the beat guide on or off. Beat Guide On: Click plays the beat type in the display. Beat Guide Off: Click does not play the beat type in the display.
SCORE	OFF/ON(8 Meas/16 Meas/32 Meas)	Turn the score function on or off.
TEMPO RATE	1 Bpm/2Beats	Set the tempo to change up/down by 1BPM per 2 beats.
	5 Bpm/4Meas	Set the tempo to change up/down by 5BPM per 4 measures.
START TEMPO	20 ~ 300	Set the starting tempo.
END TEMPO	20 ~ 300	Set the ending tempo.
TIMING GATE	OFF/Easy/Medium/Hard	Enable/disable accuracy difficulty levels. Timing Gate (Easy/Medium/Hard): Rhythms not played in time with the click, will not be heard. You can adjust the amount of difficulty. Timing Gate OFF: All rhythms played will be heard with the click.

Stroke Balance

Practice keeping your Right and Left hands “balanced” playing RLRL... evenly with the same hitting strength.



1. In Coach mode, select “Stroke Balance” and press the knob to access practice settings.
2. Turn the [MENU] knob to select a parameter.
3. Use the [+] and [-] buttons to adjust the parameter.
4. Press the [START/STOP] button to start the practice.

Note:

During Stroke Balance practice, the velocity of each stroke is displayed in real time.

Parameter	Range / Options	Description
CLICK TYPE	♩♩ ♫ ♫ ♫ ♬	Select the beat type.
TEMPO	100	Adjust the tempo.

Change Up

Learn to play the various beat subdivision rhythms as they cascade from one to another.



1. In Coach Mode, select “Change Up” and press the knob to access practice settings.
2. Turn the [MENU] knob to select a parameter.
3. Use the [+] and [-] buttons to adjust the parameter.
4. Press the [START/STOP] button to start the practice.

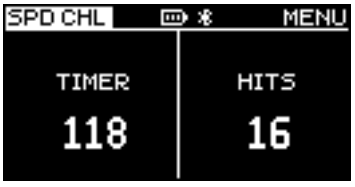
Note:

During practice, the current pattern is displayed in the middle followed by the upcoming pattern to the right.

Change Up Parameter	Range	Description
TEMPO	20 ~ 300	Adjust tempo for the practice.
LEVEL	1 ~ 3	Select difficulty levels.
BEAT GUIDE	ON/OFF	Turn the beat guide on or off. Beat Guide On: Click plays the beat type in the display. Beat Guide Off: Click does not play the beat type in the display.
SCORE	OFF/1 Loop/ 2 Loop/3 Loop/4 Loop	Turn the score function display on/off or set the number of loops for each pattern.
TIMING GATE	OFF/Easy/Medium/Hard	Enable/disable accuracy difficulty levels. Timing Gate (Easy/Medium/Hard): Rhythms not played in time with the click, will not be heard. You can adjust the amount of difficulty. Timing Gate OFF: All rhythms played will be heard with the click.

Speed Challenge

Challenge your speed by playing as many pad strikes (such as single-stroke rolls: RLRL…) as you can within a set amount of time.



1. In Coach mode, select “Speed Challenge” and press the knob to access practice settings.
2. Turn the [MENU] knob to select a parameter.
3. Use the [+] and [-] buttons to adjust the parameter.
4. Press the [START/STOP] button to start the challenge.

Note:

The TIMER will start counting down immediately upon striking the pad. The TIMER shows the remaining seconds, while the HITS count displays the total number of strokes.

Parameter	Range / Options	Description
TIMER	10/20/30...../120 sec	Set the duration (in seconds) for the timer.

Sound Settings



1. Select “SOUND” from the Mode menu and press the knob to access Sound settings.

2. Turn the [MENU] knob to select a sound parameter.

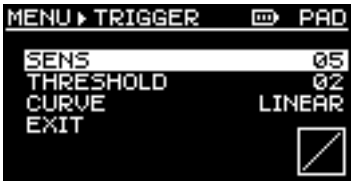
3. Use the [+] and [-] buttons to adjust the parameter.

Notes:

1. You can use a standard TRS cable (1/4”) to connect to an external 2-zone trigger via the [TRIGGER] input on the rear panel. Or you can use an insert cable (1/4” TRS to dual TS) to connect to single-zone two external triggers.
2. When connected to external trigger(s), you can hit the corresponding drum pad/part to select the trigger for which you want to change the sound. The selected trigger channel will be displayed in the upper right corner of the screen.
3. For more information on available sounds, please refer to the Sound List.

Parameter	Options	Description
TRIGGER	PAD/EXT1/EXT2	Select the trigger channel.
SOUND	55 pad sounds, including kicks, snares, toms, cymbals, and other percussions	Select and assign the sound for the selected trigger channel.

Trigger Settings



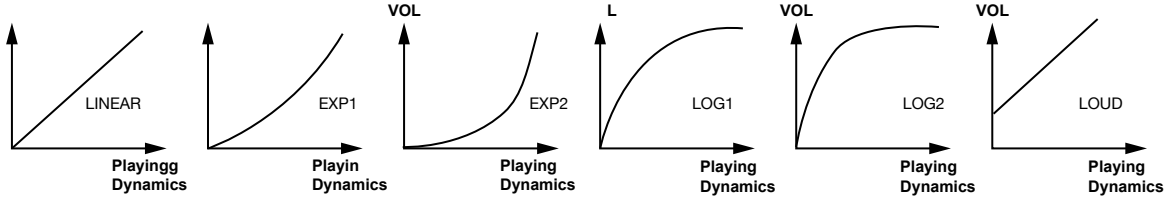
1. Select “Trigger” from the Mode menu and press the knob to access Trigger settings.

2. Turn the [MENU] knob to select a trigger parameter.

3. Use the [+] and [-] buttons to adjust the parameter.

Trigger Parameter	Range	Description
SENS	0 ~ 15	Adjust the head sensitivity.
THRESHOLD	0 ~ 15	Set the velocity threshold value. A trigger signal will produce sound only when striking velocity is above the threshold.
CURVE	LINEAR/EXP1/EXP2/LOG1/ LOG2/LOUD	Select a velocity curve. This will adjust how the sound responds as you hit from soft to loud.

Curve Illustration



Setup Menu

Setup Menu

1. In the Mode menu, select “Setup” and press the knob to enter the setup menu.

2. Turn the [MENU] knob to select a parameter..

3. Use the [+] and [-] buttons to adjust the parameter.



Setup Parameter	Range	Description
AUTO POWER OFF	OFF/15 Min/60 Min	Set the time after which the drum will shut down due to inactivity. Selecting OFF will turn off this function.
BT AUDIO	ON/OFF	Turn Bluetooth audio on or off.
FACTORY RESET	Restore factory settings. Hold down the [+] and [-] buttons, then turn on the power. The drum will restore factory settings. ***Note:*** All user settings will be reset to factory default settings.	

Troubleshooting

Problem	Possible Cause and Solution
No sound.	The volume may be set too low. Turn the [VOLUME] knob to set an appropriate volume level.

Specifications

Pad	10” mesh head with head tension
Display	128 x 64 dots matrix LCD with backlight
Max. polyphony	32
Sound	55 pad sounds
Control button	Power, Menu (knob/button), Volume, Start/Stop, +/-
Connector	USB-C power input, Phone output, Trigger input
Power supply	USB-C (5V/1A) or 4 x AA batteries
Dimension LWH (mm)	300.8 x 360 x 67.5
Weight (kg)	1.48

* All specifications and appearances are subject to change without notice.

No.	Sound name
SNARE	
1	Marching Snare
2	Field Snare
3	Concert Snare
4	Drum set Wood H
5	Drum Set Wood L
6	Drum set Metal H
7	Drum Set Metal L
8	Drum set Piccolo H
9	Drum Set Piccolo L
10	Fat Snare
11	Electronic Snare
12	808 Snare
13	909 Snare
14	Practice Pad/Board Sound
15	Cross Stick
BASS DRUM	
16	Marching BD
17	Concert BD
18	Drum Set BD Std
19	Drum Set BD Pop
20	Drum Set BD Rock
21	Electronic BD
22	808 BD
23	909 BD
TOM	
24	Tom 1 H
25	Tom 1 L
26	Tom 2 H
27	Tom 2 L
28	Marching Tenor H
29	Marching Tenor L
30	Taiko Drum
31	Timpani
CYMBAL	
32	Closed HH
33	Open HH
34	Velocity Switched HHC/HHO
35	Electronic Hi Hat (808) - Velocity Switched HHC/HHO
36	Ride
37	Crash
PERCUSSION	
38	Cowbell 1
39	Cowbell 2
40	Wood Block 1
41	Wood Block 2
42	Tambourine
43	Tringle Open
44	Triangle Closed
45	Triangle Vel Switched
46	Bongo H
47	Bongo L
48	Timbale H
49	Timbale L
50	Conga H
51	Conga L
52	Shaker
53	Clave
54	Hand Claps
55	OFF


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PAP