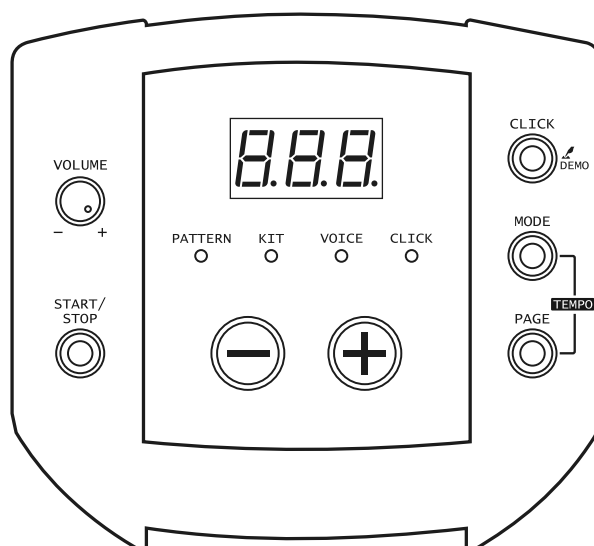


DIGITAL DRUM

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.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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, unplug the AC adaptor from the wall outlet. Then have the instrument inspected by qualified service personnel.

Disconnect all cables before moving the instrument.

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Panel Description

Front Panel

1 MASTER VOLUME KNOB

Control the volume of phone and line out.
Turn it clockwise to increase the volume
and anticlockwise to decrease the volume.

2 [START/STOP] BUTTON

Start or stop Pattern playing.

3 3-DIGIT LED DISPLAY

3-digit LED and LED indicators

4 [CLICK] BUTTON

Press [click] button to start/stop the click.
Hold on the [click] button 2 seconds to enter the demo mode and play the demo.

5 [MODE] BUTTON

Press [mode] button to select the mode from PATTERN,
KIT, VOICE, CLICK.

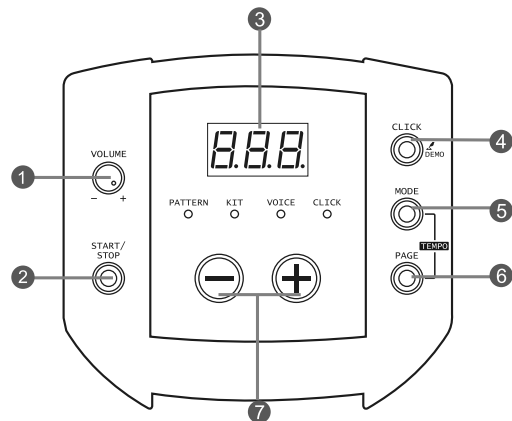
6 [PAGE] BUTTON

Press [page] button to browse the menu pages
of current selected mode.

**Press both [mode] and [page] buttons,
the 3-digit LED will display the tempo page,
it will temporarily display for 3 seconds,
then press [+] or [-] to adjust the volume.**

7 [+]/[-] BUTTON

Press [+]/[-] button to adjust the parameters.



Rear Panel

8 POWER SUPPLY JACK (DC IN 9V)

Connect an AC adaptor to this jack.

9 POWER SWITCH

Turn the power on/off.

10 USB PORT

Connect to computer.

11 MIDI OUT JACK

Connect with external sound module.

12 LINE OUTPUT JACKS (R, L/MONO)

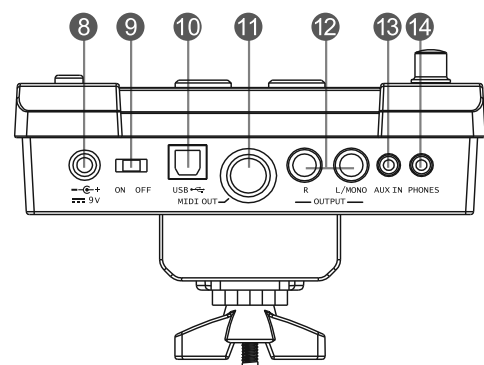
Made up of right channel output and left
channel output which is also used as mono
line output.

13 AUX IN

Connect with external sound source.

14 PHONES JACK

Connect a pair of stereo headphones to this jack.
(Connect the headphones will not mute the output jack.)



Caution!

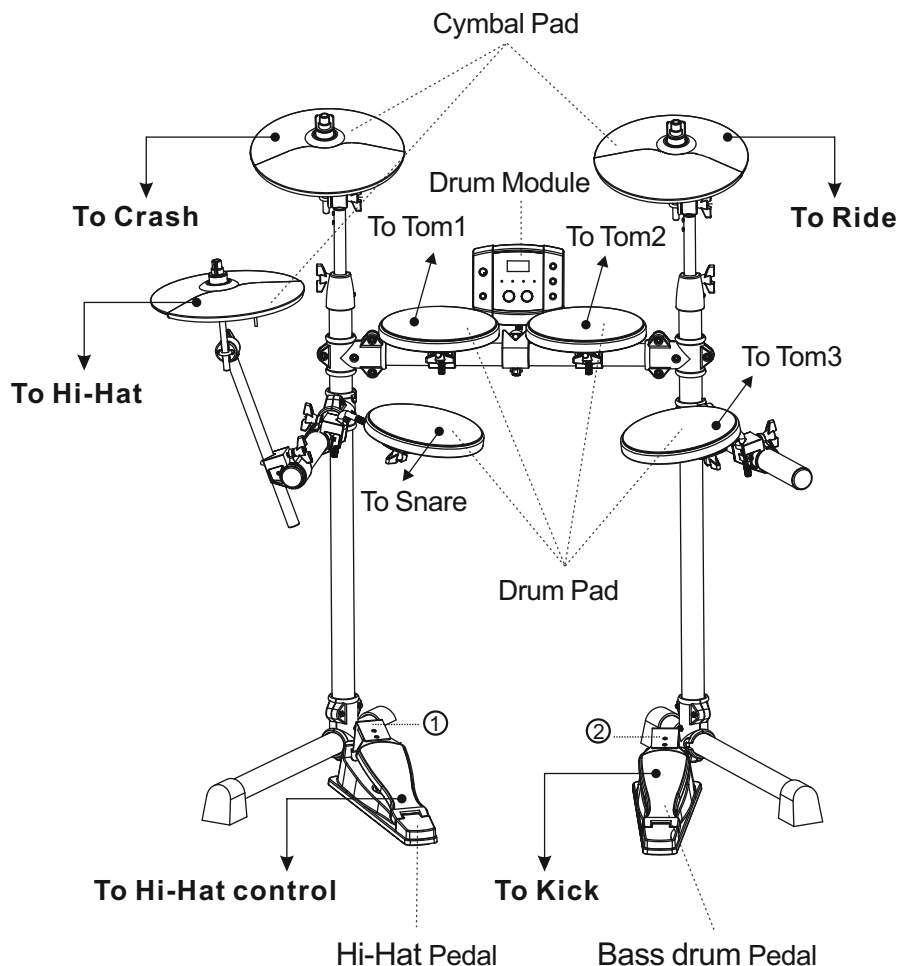
To prevent electric shock and damage to the device, make sure the power is switched OFF on the drum and all related device before making any connection.

Connecting Pads and Pedals

Using the provided cables, the cable received by marking the corresponding drum pads, cymbal pads and pedals. (See the below illustration for reference)

Note:

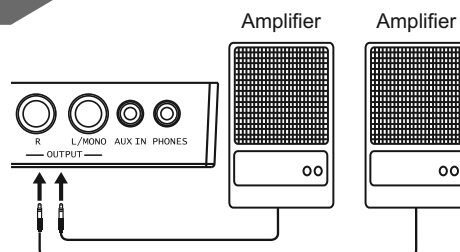
1. The voice of hi-hat pad hitting is controlled by hi-hat pedal. Similar to a real drum kit, the hi-hat pad functions as an 'open hi-hat' when the pedal is released. When the pedal is stepped, it functions as a 'closed hi-hat'.
2. The valid striking area of cymbal pad (ride, crash or hi-hat) is near the edge of the pad, which is different from other pads.



Connections

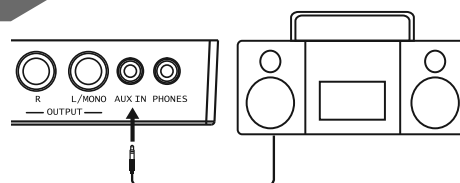
Connect an audio equipment

1. When you want to listen to the voices with an amplifier, connect amplifiers with the Output L/MONO and R jacks on the rear panel. (For monaural playback, use the L/MONO jack; for stereo playback, connect both L/MONO and R jacks.)
2. The volume is adjusted with the VOLUME knob.



Connect a CD player, etc. (Aux. In jack)

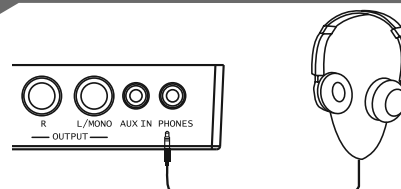
1. The audio output of a CD player, or other audio source, to connect with the AUX IN jack on the rear panel can mixed with the sound of the drum. This function is that let you play along with a favourite song.
2. The volume of the external signal is adjusted with the VOLUME knob.



Connect headphones

An optional set of stereo headphones can be connected with the PHONES jack located on the rear panel of the drum module.

- * Adjust the volume to a comfortable level.

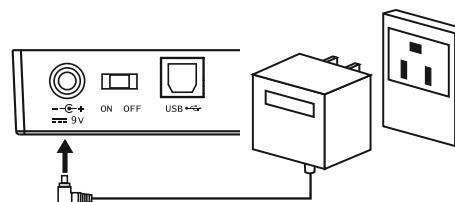


Connect the power supply jack

Make sure the power is switched OFF and connect the power adaptor with the DC IN jack on the rear panel.

Note:

1. To protect the speakers, amplifier and the drum module from damage, rotate the volume knob to the minimum volume level before switching the power ON.
2. Make sure the power is switched OFF when connecting drum module with external devices.



MIDI and USB

MIDI stands for Musical Instrument Digital Interface, this is a world-wide standard communication interface that enables electronic musical instruments and computers (of all brands) to communicate with each other so that MIDI command and other data can pass between them. This exchange of information makes it possible to create a system of MIDI instruments and devices that offer far greater versatility and control than is available with isolated instruments. Whether you interface with computers, sequencers, expanders or other controllers, your musical horizons will be greatly enhanced.

MIDI connection

MIDI OUT: This terminal transmits data from this instrument to other MIDI devices.

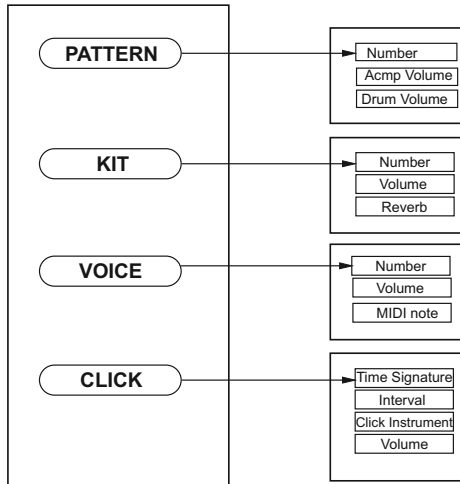
USB connection

The USB connector allows you to connect the module directly to your computer. It can be connected without driver installation under the Windows XP\ Vista\Windows 7 & MAC OSX environment. The module will be recognized as 'USB Audio device' to receive and transmit MIDI messages through a single USB cable, USB is used only for MIDI messages (MIDI via USB).

- Note:** When the USB is connected to a computer, all MIDI messages will be received and transmitted via USB.



Menu tree



In the main menu there are 4 menu items

- PATTERN
- DRUM KIT
- VOICE
- CLICK

Operation

Press [MODE] button to change the mode.

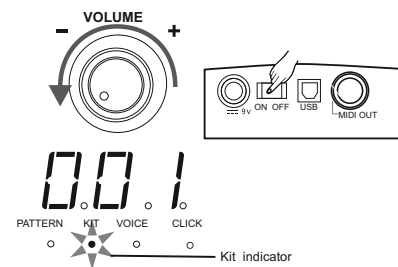
Press [PAGE] button to select the page of current mode.

Press [+] / [-] button to adjust the parameters.

Switch the power ON

After confirming all connection have been completed, rotate the volume knob to the left (minimum volume level) before switching the power on.

Set the power switch to "ON" position to switch on the power. Display shows the kit's number and its indicator lights up.



Auto Power Off

In order to save energy, we have designed the "Automatic Shutdown" function. With this function, this product will shutdown automatically when you have left it idle for more than 30 minutes.

If you don't need this function, just press and hold the [START/STOP] button then turn the drum on.

You will also see the screen temporarily displaying "PoF" for 3 seconds before entering the main menu which indicates that the "Automatic shutdown" function is turned off.



Set the main volume

While hitting a pad, gradually rotate the volume knob until a comfortable volume level is reached.



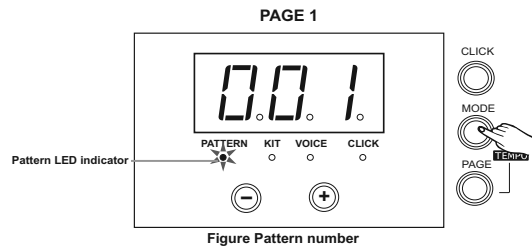
Pattern

- In pattern mode, there are 3 pages:
1. Pattern number (1- 40, default 1)
 2. Pattern accompaniment volume(0-32)
 3. Pattern drum volume(0-32)

Select a pattern

In pattern mode, Pattern number (001-040, default 001)

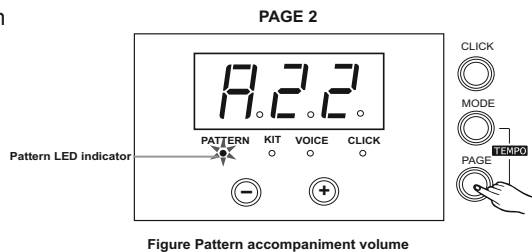
1. Press the [MODE] button to select the pattern mode, the pattern LED indicator will be lighted up, the 3-digit-LED will display the pattern number(001)
2. Press [+] or [-] button to adjust the value.
Range :(001 to 040)



Adjust the accompaniment volume

In pattern mode, pattern accompaniment volume(0-032)

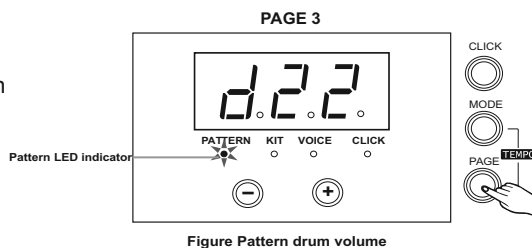
1. Press [MODE] button to select the pattern mode, the pattern LED indicator will be lighted up.
2. Press [PAGE] button to select the accompaniment volume page, the 3-digit-LED will display the accompaniment volume(A22).
3. Press [+] or [-] button to adjust the value.
Range:(0 to 32).



Adjust the drum volume

In pattern mode, pattern drum volume(0-032)

1. Press [MODE] button to select the pattern mode, the pattern LED indicator will be lighted up,
2. Press [PAGE] button to select the drum volume page, the 3-digit-LED will display the drum volume(d22).
3. Press [+] or [-] to adjust the value.
Range:(0 to 32)



Drum Kit

- In kit mode, there are 3 pages:
1. kit number(001-010,default 1).
 2. kit volume (0-32).
 3. kit reverb:(on/off, default on).

Select a kit

In kit mode, kit number(001-010,default 1).

1. Press [MODE] button to select the kit mode, the kit LED indicator will be lighted up, the 3-digit-LED will display the kit number(001).
2. Press [+] or [-] to adjust the value.
Range:(001-010).

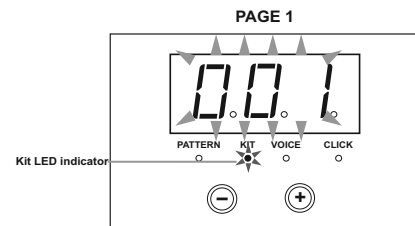


Figure Kit number

Adjust the kit volume

In kit mode, kit volume (0-32).

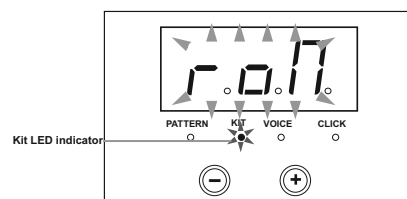
1. Press the [MODE] button to select the kit mode, the kit LED indicator will be lighted.
2. Press the [PAGE] button to select the kit volume page, the 3-digit-LED will display the kit volume(L30).
3. Press [+] or [-] to adjust the value (Automatic save).
Range:(0 to 32).



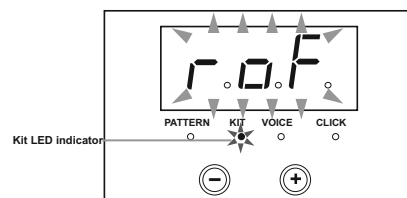
Figure Kit volume

Switch reverb on/off

1. Press [MODE] button to select the kit mode, the kit LED indicator will be lighted up.
2. Press the [PAGE] button to select the kit reverb page, reverb effect can be turn on or off by pressing button [+] or [-].



PAGE 3



Voice

In voice mode, there are 3pages:

1. Voice number:(1-108).
2. Voice volume:(0-32).
3. Midi note:(0-99).

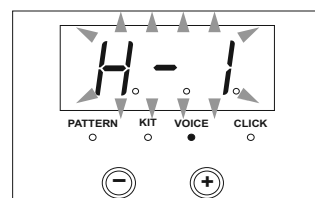
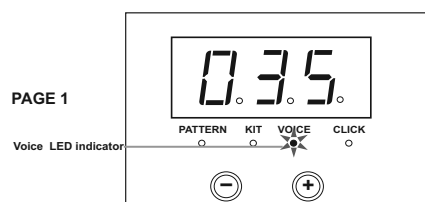
Select the voice

In voice mode, voice number:(1-108).

1. Press [MODE] button to select the voice mode, the voice LED indicator will be lighted up, strike a drum pad, the 3-digit-LED will display the voice number.
2. Press [+] or [-] to adjust the value(Automatic save).
Range:(001 to 108).

NOTE:

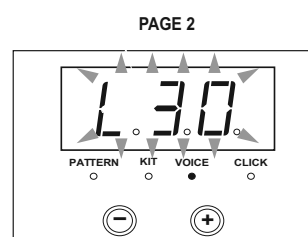
When you select a voice for hi-hit drum, you only can select the hi-hat group voices, from group 1-group 4(Automatic save), the display is:(H-I).



Adjust the voice volume

In voice mode, voice volume:(0-32).

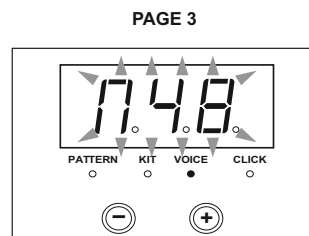
1. Press [MODE] button to select the voice mode, the voice LED indicator will be lighted up.
2. Press [PAGE] button to select the voice volume page, strike a drum pad, the 3-digit-LED will display the voice volume(L30).
3. Press [+] or [-] to adjust the value(Automatic save).
Range:(0 to 32).



Adjust the midi note

In voice mode, midi note:(0-99).

1. Press [MODE] button to select the voice mode, the voice LED indicator will be lighted up.
2. Press [PAGE] button to select the midi note page, strike a drum pad, the 3-digit-LED will display the midi note (n48).
3. Press [+] or [-] to adjust the value(Automatic save).
Range:(0 to 99).



THE DEFAULT MIDI NOTE:

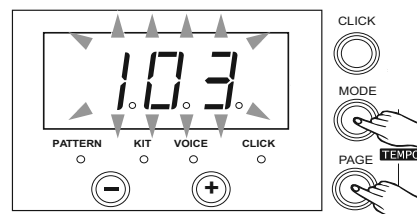
NO.	NAME	NOTE
1	CRASH1	49
2	TOM 1	48
3	TOM 2	45
4	TOM 3	43
5	RIDE	51
6	KICK	36
7	SNARE	38
8	HIHAT CLOSE	42
9	HIHAT OPEN	46
10	HIHAT PEDAL	44

Tempo

The tempo range is 30-280

Adjust the tempo

1. Press both [MODE] and [PAGE] buttons, the 3-digit-LED will display the tempo page, it will temporarily display for 3 seconds.
2. Press [+] or [-] to adjust the value.



Click

In click mode, there are 4 pages:

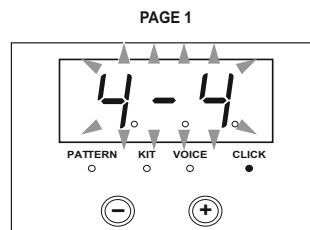
1. Time signature:(1/4-7/4,3/8,6/8).
2. Interval:(1/4,1/8,1/12,1/16,1/24,default 1/4).
3. Instrument:(1-5,default 1).
4. Click volume:(0-32).

Adjust the click time signature

In click mode, Time signature:(1/4-7/4,3/8,6/8).

1. Press [MODE] button select the click mode, the click LED indicator will be lighted up.
2. Press [PAGE] button select the click time signature page, the 3-digit-LED will display the click time signature(4-4).
3. Press [+] or [-] to adjust the value.
Range:(1/4-7/4 or 3/8 or 6/8).

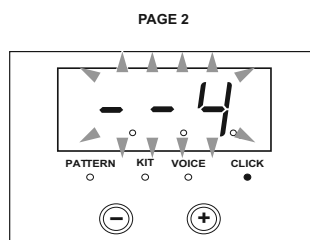
Note: The click time signature will follow the pattern, when pattern is playing, it can not be edit.



Adjust the click interval

In click mode, interval:(1/4,1/8,1/12,1/16,1/24,default 1/4).

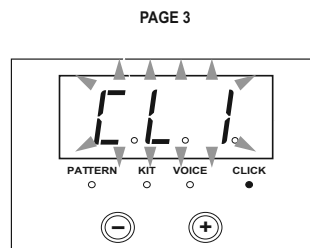
1. Press [MODE] button to select the click mode, the click LED indicator will be lighted up.
2. Press [PAGE] button to select the click interval page, the 3-digit-LED will display the click interval(--4) .
3. Press the [+] or [-] button to adjust the value.
Range:(--4 to -24).



Adjust the click instrument

In click mode, instrument:(1-5,default 1).

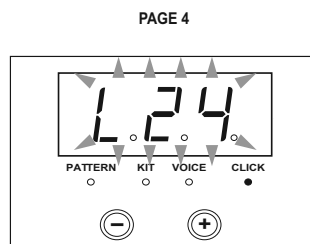
1. Press [MODE] button to select the click mode, the click LED indicator will be lighted up.
2. Press [PAGE] button to select the click instrument page, the 3-digit-LED will display the click instrument(CL1).
3. Press [+] or [-] to adjust the value.
Range:(CL1 to CL5).



Adjust the click volume

In click mode, click volume:(0-32).

1. Press [MODE] button to select the click mode, the click LED indicator will be lighted up.
2. Press [PAGE] button to select the click volume page, the 3-digit-LED will display the click volume(L24).
3. Press [+] or [-] to adjust the value.
Range:(0 to 32)



Restore the factory preset

Restoring the factory preset can be implemented by following operations:

Turn on the power with

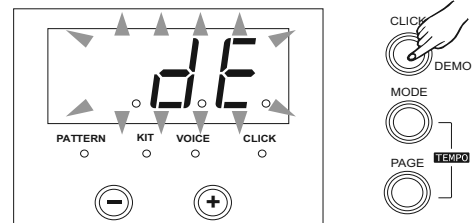
both [+] and [-] unreleased.

This function will replace the current settings of following parameters by their default preset values:

Kit volume, voice number, voice volume and MIDI note.

Play the demo

1. Hold on the [CLICK] button 2 seconds to enter the demo and play the demo, the 3-digit-LED will display the demo "dE".
2. Press [START/STOP] button to stop the demo playing.



Play the pattern

1. Press [START/STOP] button play the pattern.
2. Press [START/STOP] button again to stop the pattern playing.

Play the click

1. Press the [CLICK] button to start the click, the click indicator will flash follow the beat.
2. Press the [CLICK] button again to stop the click.

Specifications

Drum Pad

4 drum pads , 3 cymbal pads , 1 hi-hat control pedal , 1 kick pedal

Preset Drum kits

10 preset kits

Drum Instrument

108

Preset Pattern

40

Controls

MIDI OUT, POWER SWITCH, USB, PHONES, START/STOP,PATTERN, KIT, VOICE, CLICK, MODE, PAGE, DEMO, TEMPO, VOLUME, + / -

Display

LED display

Connections

PHONES
AUX IN
OUTPUT (R & L/MONO)
MIDI OUT
USB
ON/OFF

Power Supply

AC adaptor (≡ 9V)

Preset Drum KIT list

No. Name

001	Acoustic
002	Standard 1
003	Rock
004	Standard 2
005	Funk
006	Jazz
007	Brush
008	Electronic
009	808
010	House

Drum Instrument List

No. Name	No. Name	No. Name	No. Name	No. Name	
KICK					
001	Standard Kick 1	022	Acoustic Snare Rim	043	Camco Tom 4
002	Standard Kick 2	023	Funk Band Snare	044	Camco Tom 5
003	Room Kick	024	Funk Band Snare Rim	045	Camco Tom 6
004	Rock Kick 1	025	Camco Snare	046	808 Tom 1
005	Rock Kick 2	026	Camco Snare Rim	047	808 Tom 2
006	Acoustic Kick	027	Brush Snare	048	808 Tom 3
007	HipHop Kick	028	Brush Snare Rim	049	808 Tom 4
008	Funk Kick	029	Electronic Snare 1	050	808 Tom 5
009	Jazz Kick 1	030	Electronic Snare 2	051	808 Tom 6
010	Jazz Kick 2	031	808 Snare	052	Electronic Tom 1
011	Electronic Kick	032	House Snare 1	053	Electronic Tom 2
012	808 Kick	033	House Snare 2	054	Electronic Tom 3
013	House Kick 1			055	Electronic Tom 4
014	House Kick 2			056	Electronic Tom 5
			TOM	057	Electronic Tom 6
		034	Classic Tom 1		
		035	Classic Tom 2		RIDE
		036	Classic Tom 3	058	Classic Ride
		037	Classic Tom 4	059	Classic Ride Bell
		038	Classic Tom 5	060	Rock Ride
		039	Classic Tom 6	061	808 Ride
		040	Camco Tom 1		
		041	Camco Tom 2		CRASH
		042	Camco Tom 3	062	Standard Crash 1
					HI-HAT
				063	Standard Crash 2
				064	Rock Crash
				065	Splash 1
				066	Splash 2
				067	Brush Crash
				068	808 Crash
					PERCUSSION
				069	Standard Hi-hat Open
				070	Jazz Hi-hat Open
				071	Electronic Hi-hat Open
				072	808 Hi-hat Open
				073	Standard Hi-hat Close
				074	Jazz Hi-hat Close
				075	Electronic Hi-hat Close
				076	808 Hi-hat Close
				077	Standard Hi-hat Pad
				078	Jazz Hi-hat Pad
				079	Electronic Hi-hat Pad
				080	808 Hi-hat Pad
				081	Bongo High
				082	Bongo Low
				083	Mute Conga Hi-hat
				084	Open Conga Hi-hat
				085	Conga Low
				086	Timbale High
				087	Timbale Low
				088	Agogo High
				089	Agogo Low
				090	Cabasa
				091	Maracas
				092	Short Whistle
				093	Long Whistle
				094	Short Guiro
				095	Long Guiro
				096	Claves
				097	Wood Block High
				098	Wood Block Low
				099	Mute Cuica
				100	Open Cuica
				101	Mute Triangle
				102	Open Triangle
				103	Shaker
				104	Jingle Bell
				105	Belltone
				106	Castanets
				107	Mute Surdo
				108	Open Surdo

Preset Pattern List

No. Name	Tempo	Kit	No. Name	Tempo	Kit		
001	Fusion 1	103	1	021	Swing	172	6
002	Electronic & Funk	116	9	022	Latin Jazz 2	126	7
003	Modern Pop	136	1	023	Big Band 2	152	6
004	HipHop	110	9	024	3/4 Jazz	120	7
005	Latin Jazz 1	130	7	025	Jazz	150	7
006	Funk 1	120	5	026	6/8 Ballad	96	3
007	Big Band 1	170	6	027	Pop Ballad	80	3
008	Funk 2	112	1	028	Pop Bossa	120	2
009	Pop Funk 1	112	1	029	16Beat Pop	120	5
010	Fusion 2	112	1	030	Pop Shuffle	86	5
011	Funk 3	120	5	031	Samba	236	1
012	Fusion 3	108	1	032	Mambo	126	5
013	Fusion 4	116	1	033	Latin Rock	136	1
014	Pop Funk 2	106	5	034	Latin Pop	126	5
015	R&B	86	9	035	Guitar Bossa	84	5
016	Drum & Bass 1	168	9	036	Country Blues	128	3
017	Break Beat	108	5	037	Rock	100	1
018	Dance	130	9	038	Reggae	78	1
019	Drum & Bass 2	170	1	039	60's Rock	120	2
020	Latin Dance	126	5	040	Blues	96	2
				Demo Funk	100	1	

GM Backing Instrument List

PIANO

- 1 Acoustic Grand Piano
- 2 Bright Acoustic Piano
- 3 Electric Grand Piano
- 4 Honky-Tonk Piano
- 5 E.Piano 1
- 6 E.Piano 2
- 7 Harpsichord
- 8 Clavi

MALLET

- 9 Celesta
- 10 Glockenspiel
- 11 Music Box
- 12 Vibraphone
- 13 Marimba
- 14 Xylophone
- 15 Tubular Bells
- 16 Dulcimer

ORGAN

- 17 Drawbar Organ
- 18 Percussive Organ
- 19 Rock Organ
- 20 Church Organ
- 21 Reed Organ
- 22 Accordion
- 23 Harmonica
- 24 Tango Accordion

GUITAR

- 25 Nylon Guitar
- 26 Steel Guitar
- 27 Jazz Guitar
- 28 Clean Guitar
- 29 Muted Guitar
- 30 Overdriven Guitar
- 31 Distortion Guitar
- 32 Guitar Harmonics

BASS

- 33 Acoustic Bass
- 34 Finger Bass
- 35 Pick Bass
- 36 Fretless Bass
- 37 Slap Bass 1
- 38 Slap Bass 2
- 39 Synth Bass 1
- 40 Synth Bass 2

STRINGS

- 41 Violin
- 42 Viola
- 43 Cello
- 44 Contrabass
- 45 Tremolo Strings
- 46 Pizzicato Strings
- 47 Orchestral Harp
- 48 Timpani

STRINGS ENSEMBLE

- 49 Strings Ensemble 1
- 50 Strings Ensemble 2
- 51 Synth Strings 1
- 52 Synth Strings 2
- 53 Choir Aahs
- 54 Voice Oohs
- 55 Synth Voice
- 56 Orchestra Hit

BRASS

- 57 Trumpet
- 58 Trombone
- 59 Tuba
- 60 Muted Trumpet
- 61 French Horn
- 62 Brass Section
- 63 Synth Brass 1
- 64 Synth Brass 2

REED

- 65 Soprano Sax
- 66 Alto Sax
- 67 Tenor Sax
- 68 Baritone Sax
- 69 Oboe
- 70 English Horn
- 71 Bassoon
- 72 Clarinet

PIPE

- 73 Piccolo
- 74 Flute
- 75 Recorder
- 76 Pan Flute
- 77 Blown Bottle
- 78 Shakuhachi
- 79 Whistle
- 80 Ocarina

LEAD

- 81 Lead1 (square)
- 82 Lead2 (sawtooth)
- 83 Lead3 (calliope)
- 84 Lead4 (chiff)
- 85 Lead5 (charang)
- 86 Lead6 (voice)
- 87 Lead7 (fifths)
- 88 Lead8 (bass & Lead)

PAD

- 89 Pad1 (newage)
- 90 Pad2 (warm)
- 91 Pad3 (Polysynth)
- 92 Pad4 (choir)
- 93 Pad5 (bowed)
- 94 Pad6(metallic)
- 95 Pad7 (halo)
- 96 Pad8 (sweep)

EFFECTS

- 97 FX1 (rain)
- 98 FX2 (soundtrack)
- 99 FX3 (crystal)
- 100 FX4 (atmosphere)
- 101 FX5 (brightness)
- 102 FX6 (goblins)
- 103 FX7 (echoes)
- 104 FX8 (sci-fi)

ETHNIC

- 105 Sitar
- 106 Banjo
- 107 Shamisen
- 108 Koto
- 109 Kalimba
- 110 Bagpipe
- 111 Fiddle
- 112 Shanai

PERCUSSIVE

- 113 Tinkle Bell
- 114 Agogo
- 115 Steel Drums
- 116 Wood Block
- 117 Taiko Drum
- 118 Melodic Tom
- 119 Synth Drum
- 120 Reverse Cymbal

SOUND EFFECTS

- 121 Guitar Fret Noise
- 122 Breath Noise
- 123 Seashore
- 124 Bird Tweet
- 125 Telephone Ring
- 126 Helicopter
- 127 Applause
- 128 Gunshot

GM Drum Kit List

NET NO.	Standard 1 (bank 0)	Standard 2 (bank 4)	Room (bank 8)	Rock (bank 16)	Funk (bank 17)
27-D#1	High Q	<-	<-	<-	<-
28-E1	Slap	<-	<-	<-	<-
29-F1	Scratch Push	<-	<-	<-	<-
30-F#1	Scratch Pull	<-	<-	<-	<-
31-G1	Sticks	<-	<-	<-	<-
32-G#1	Square Click	<-	<-	<-	<-
33-A1	Metronome Click	<-	<-	<-	<-
34-A#1	Metronome Bell	<-	<-	<-	<-
35-B1	Acoustic Bass Drum	<-	Room Bass Drum 1	Rock Bass Drum 1	Funk Bass Drum 1
36-C2	Standard 1 Bass Drum	Standard 2 Bass Drum	Room Bass Drum 2	Rock Bass Drum 2	Funk Bass Drum 2
37-C#2	Side Stick	<-	<-	<-	<-
38-D2	Standard 1 Snare	Standard 2 Snare	Room Snare	Rock Snare	Funk Snare
39-D#2	Hand Clap	<-	<-	<-	<-
40-E2	Standard 1 Snare Rim	Standard 2 Snare Rim	Room Snare Rim	Rock Snare Rim	Funk Snare Rim
41-F2	Standard 1 Tom 6	Standard 2 Tom 6	Room Tom 6	Rock Tom 6	Funk Tom 6
42-F#2	Standard 1 Hi-hat Close	Standard 2 Hi-hat Close	Room Hi-hat Close	Rock Hi-hat Close	Funk Hi-hat Close
43-G2	Standard 1 Tom 5	Standard 2 Tom 5	Room Tom 5	Rock Tom 5	Funk Tom 5
44-G#2	Standard 1 Hi-hat Pedal	Standard 2 Hi-hat Pedal	Room Hi-hat Pedal	Rock Hi-hat Pedal	Funk Hi-hat Pedal
45-A2	Standard 1 Tom 4	Standard 2 Tom 4	Room Tom 4	Rock Tom 4	Funk Tom 4
46-A#2	Standard 1 Hi-hat Open	Standard 2 Hi-hat Open	Room Hi-hat Open	Rock Hi-hat Open	Funk Hi-hat Open
47-B2	Standard 1 Tom 3	Standard 2 Tom 3	Room Tom 3	Rock Tom 3	Funk Tom 3
48-C3	Standard 1 Tom 2	Standard 2 Tom 2	Room Tom 2	Rock Tom 2	Funk Tom 2
49-C#3	Standard 1 Crash 1	Standard 2 Crash 1	Room Crash 1	Rock Crash 1	Funk Crash 1
50-D3	Standard 1 Tom 1	Standard 2 Tom 1	Room Tom 1	Rock Tom 1	Funk Tom 1
51-D#3	Standard 1 Ride	Standard 2 Ride	Room Ride	Rock Ride	Funk Ride
52-E3	Chinese Cymbal 1	<-	<-	<-	<-
53-F3	Ride Bell	<-	Room Ride Bell	Rock Ride Bell	<-
54-F#3	Tambourine	<-	<-	<-	<-
55-G3	Splash Cymbal	<-	Room Splash Cymbal	Rock Splash Cymbal	<-
56-G#3	Standard 1 Cowbell	Standard 2 Cowbell	Room Cowbell	Rock Cowbell	<-
57-A3	Standard 1 Crash 2	Standard 2 Crash 2	Room Crash 2	Rock Crash 2	Funk Crash 2
58-A#3	Vibra-slap	<-	<-	<-	<-
59-B3	Ride Cymbal	<-	<-	<-	<-
60-C4	Hi Bongo	<-	<-	<-	<-
61-C#4	Low Bongo	<-	<-	<-	<-
62-D4	Mute Hi Conga	<-	<-	<-	<-
63-D#4	Open Hi Conga	<-	<-	<-	<-
64-E4	Low Conga	<-	<-	<-	<-
65-F4	High Timbale	<-	<-	<-	<-
66-F#4	Low Timbale	<-	<-	<-	<-
67-G4	High Agogo	<-	<-	<-	<-
68-G#4	Low Agogo	<-	<-	<-	<-
69-A4	Cabasa	<-	<-	<-	<-
70-A#4	Maracas	<-	<-	<-	<-
71-B4	Short Whistle	<-	<-	<-	<-
72-C5	Long Whistle	<-	<-	<-	<-
73-C#5	Short Guiro	<-	<-	<-	<-
74-D5	Long Guiro	<-	<-	<-	<-
75-D#5	Claves	<-	<-	<-	<-
76-E5	Hi Wood Block	<-	<-	<-	<-
77-F5	Low Wood Block	<-	<-	<-	<-
78-F#5	Mute Cuica	<-	<-	<-	<-
79-G5	Open Cuica	<-	<-	<-	<-
80-G#5	Mute Triangle	<-	<-	<-	<-
81-A5	Open Triangle	<-	<-	<-	<-
82-A#5	Shaker	<-	<-	<-	<-
83-B5	Jingle Bell	<-	<-	<-	<-
84-C6	Bell Tree	<-	<-	<-	<-
85-C#6	Castanets	<-	<-	<-	<-
86-D6	Mute Surdo	<-	<-	<-	<-
87-D#6	Open Surdo	<-	<-	<-	<-

GM Drum Kit List

NET NO.	Electronic (bank 24)	808 (bank 25)	House (bank 28)	Jazz (bank 32)	Brush (bank 40)
27-D#1	<-	<-	<-	<-	<-
28-E1	<-	<-	<-	<-	<-
29-F1	<-	<-	<-	<-	<-
30-F#1	<-	<-	<-	<-	<-
31-G1	<-	<-	<-	<-	<-
32-G#1	<-	<-	<-	<-	<-
33-A1	<-	<-	<-	<-	<-
34-A#1	<-	<-	<-	<-	<-
35-B1	Electronic Bass Drum 1	808 Bass Drum 1	House Bass Drum 1	Jazz Bass Drum 1	Brush Bass Drum 1
36-C2	Electronic Bass Drum 2	808 Bass Drum 2	House Bass Drum 2	Jazz Bass Drum 2	Brush Bass Drum 2
37-C#2	<-	<-	<-	<-	<-
38-D2	Electronic Snare	808 Snare	House Snare	Jazz Snare	Brush Snare
39-D#2	<-	<-	House Hand Clap	<-	<-
40-E2	Electronic Snare Rim	808 Snare Rim	House Snare Rim	Jazz Snare Rim	Brush Snare Rim
41-F2	Electronic Tom 6	808 Tom 6	House Tom 6	Jazz Tom 6	Brush Tom 6
42-F#2	Electronic Hi-hat Close	808 Hi-hat Close	House Hi-hat Close	Jazz Hi-hat Close	<-
43-G2	Electronic Tom 5	808 Tom 5	House Tom 5	Jazz Tom 5	Brush Tom 5
44-G#2	Electronic Hi-hat Pedal	808 Hi-hat Pedal	House Hi-hat Pedal	Jazz Hi-hat Pedal	<-
45-A2	Electronic Tom 4	808 Tom 4	House Tom 4	Jazz Tom 4	Brush Tom 4
46-A#2	Electronic Hi-hat Open	808 Hi-hat Open	House Hi-hat Open	Jazz Hi-hat Open	<-
47-B2	Electronic Tom 3	808 Tom 3	House Tom 3	Jazz Tom 3	Brush Tom 3
48-C3	Electronic Tom 2	808 Tom 2	House Tom 2	Jazz Tom 2	Brush Tom 2
49-C#3	<-	808 Crash 1	<-	<-	Brush Crash 1
50-D3	Electronic Tom 1	808 Tom 1	House Tom 1	Jazz Tom 1	Brush Tom 1
51-D#3	<-	<-	<-	Jazz Ride	Brush Ride
52-E3	<-	<-	<-	<-	<-
53-F3	<-	<-	<-	<-	<-
54-F#3	<-	<-	<-	<-	<-
55-G3	<-	<-	<-	<-	<-
56-G#3	<-	<-	<-	<-	<-
57-A3	<-	808 Crash 2	<-	ChineseCymbal 2	Brush Crash 2
58-A#3	<-	<-	<-	<-	<-
59-B3	<-	<-	<-	<-	<-
60-C4	<-	<-	<-	<-	<-
61-C#4	<-	<-	<-	<-	<-
62-D4	<-	808 Mute Hi Conga	<-	<-	<-
63-D#4	<-	808 Open Hi Conga	<-	<-	<-
64-E4	<-	808 Low Conga	<-	<-	<-
65-F4	<-	<-	<-	<-	<-
66-F#4	<-	<-	<-	<-	<-
67-G4	<-	<-	<-	<-	<-
68-G#4	<-	<-	<-	<-	<-
69-A4	<-	<-	<-	<-	<-
70-A#4	<-	808 Maracas	<-	<-	<-
71-B4	<-	<-	<-	<-	<-
72-C5	<-	<-	<-	<-	<-
73-C#5	<-	<-	<-	<-	<-
74-D5	<-	<-	<-	<-	<-
75-D#5	<-	808 Claves	<-	<-	<-
76-E5	<-	<-	<-	<-	<-
77-F5	<-	<-	<-	<-	<-
78-F#5	<-	<-	<-	<-	<-
79-G5	<-	<-	<-	<-	<-
80-G#5	<-	<-	<-	<-	<-
81-A5	<-	<-	<-	<-	<-
82-A#5	<-	<-	<-	<-	<-
83-B5	<-	<-	<-	<-	<-
84-C6	<-	<-	<-	<-	<-
85-C#6	<-	<-	<-	<-	<-
86-D6	<-	<-	<-	<-	<-
87-D#6	<-	<-	<-	<-	<-

MIDI Implementation Chart

	Function...	Transmitted	Recognized	Remarks
Basic	Default	10 ch	1-16	
Channel	Changed	X	X	
	Default	X	X	
Mode	Messages	X	X	
	Altered	*****	*****	
Note		0-127	0-127	
Number:	True voice	*****	0-127	
Velocity	Note on	O 99H, V=1-127	0-127	
	Note off	O (9 9H. V=0)	0-127	
After	Key's	X	X	
Touch	Channel's	X	X	
Pitch Bend		X	O	
Control	0	X	O	Bank Select
Change	1	X	O	Modulation
	5	X	O	Portamento Time
	6	X	O	Data Entry
	7	X	O	Volume
	10	X	O	Pan
	11	X	O	Expression
	64	X	O	Sustain Pedal
	65	X	O	Portamento ON/OFF
	66	X	O	Sostenuto Pedal
	67	X	O	Soft Pedal
	80	X	O	Reverb Program
	81	X	O	Chorus Program
	91	X	O	Reverb Level
	93	X	O	Chorus Level
	120	X	O	All Sound OFF
	121	X	O	Reset All Controller
	123	X	O	All Notes OFF
Program	Change	X	O	
System	Exclusive	X	O	
System	: Song Position	X	X	
Common	: Song Select	X	X	
	: Tune	X	X	
System	: Clock	O	X	START \ STOP
Real Time	: Commands	O	X	
Aux	: Local ON/OFF	X	X	
	: All Notes OFF	X	X	
Messages	: Active Sense	O	X	
	: Reset	X	X	

O : YES

X : NO

WEEE-Declaration / Disposal



Your product is designed and manufactured with materials and components of high quality, which are recyclable and can be reused. The symbol means that your product should be disposed of separately from household waste when it reaches its end of life. Please dispose of this equipment at your local collection point or recycling center. Please help to protect the environment in which we all live.

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