Specifications

Pad & Display	16 Touch-sensitive & OLED (128 x 64)
Polyphony	32
Drum Kit & Sound	48 Kits & 185 Single Sounds
Rhythm Pattern	100 x Preset
	100 x User (total 64,000 notes)
Pattern Length	4 bars
Song	50 x User (800 bars/200 patterns per song)
Tempo	5 ~ 320
Time Signature	/4 = 2, 3, 4, 5, 7, 9, 11, 13, 15
Note Resolution	1/384, 1/128, 1/64, 1/32, 1/16
Effect	Reverb (5 types x 10 levels)
Other Controls	Fill-in button, Playhead button
Connectivity	1 x Stereo mini headphone output
	1 x Stereo phone line output
	1 x USB-C (USB Audio, MIDI & Power)
Speaker & Amplifier	2 x 36 mm & 2 x 1W
Power	USB-C 5V or 4 x AA Batteries
Dimensions & Weight	182 x 111.5 x 57.5mm & 467g

22 PAP

Drum Kit List		Prg
1	Basic Kit 1	0
2	Basic Kit 2	1
3	Basic Kit 3	2
4	Vintage Kit	3
5	Warm Kit 1	4
6	Warm Kit 2	5
7	Studio Kit 1	6
8	Studio Kit 2	7
9	Studio Kit 3	8
10	Room Kit 1	9
11	Room Kit 2	10
12	Organic Kit 1	11
13	Organic Kit 2	12
14	Pop Kit	13
15	80's Kit	14
16	Tight Kit 1	15
17	Tight Kit 2	16
18	Solid Kit 1	17
19	Solid Kit 2	18
20	Solid Kit 3	19
21	Brush Kit	20
22	Fat Kit 1	21
23	Fat Kit 2	22
24	Heavy Kit	23
25	Indie Kit 1	24
26	Indie Kit 2	25

27	Metal Kit	26
28	Ballad Kit 1	27
29	Ballad Kit 2	28
30	Ballad Kit 3	29
31	Latin Kit 1	30
32	Latin Kit 2	31
33	Latin Kit 3	32
34	Techno Kit 1	33
35	Techno Kit 2	34
36	House Kit 1	35
37	House Kit 2	36
38	House Kit 3	37
39	House Kit 4	38
40	Electro Kit 1	39
41	Electro Kit 2	40
42	Electro Kit 3	41
43	Hybrid Kit 1	42
44	Hybrid Kit 2	43
45	Oriental Kit	44
46	Creative Kit 1	45
47	Creative Kit 2	46
48	Creative Kit 3	47

* All MSB = 0, LSB = 0, CH = 10,
for using as an external MIDI
sound device.

RHYTHM MACHINE
OWNER'S MANUAL

THE FCC REGULATION WARNING (for the 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:

PRECAUTIONS

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

Power Supply
Please connect the designated USB power adaptor to an AC outlet. Unplug the USB power adaptor when not using the instrument, or during electrical storms.

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

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 qualified service personnel.
Disconnect all cables before moving the instrument.
Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

Keeping foreign matter out of your equipment
Do not set any container with liquid in it near this equipment. If liquid gets into the equipment, it could cause a breakdown, fire, or electrical shock. Be careful not to let metal objects get into the equipment.

Keep this manual
After reading this manual, please keep it for later reference.

Preset Rhythm Pattern List		
8 Beat A		♩ =
P001	8 Beat A1	126
P002	8 Beat A2	126
P003	8 Beat A3	126
P004	8 Beat A4	126
P005	8 Beat A5	126
P006	8 Beat A6	126
P007	8 Beat A7	126
P008	8 Beat A8	126
P009	8 Beat A9	141
P010	8 Beat A10	138
8 Beat B		♩ =
P011	8 Beat B1	141
P012	8 Beat B2	126
P013	8 Beat B3	126
P014	8 Beat B4	126
P015	8 Beat B5	141
P016	8 Beat B6	110
P017	8 Beat B7	136
P018	8 Beat B8	110
P019	8 Beat B9	148
P020	8 Beat B10	88
16 Beat A		♩ =
P021	16 Beat A1	126
P022	16 Beat A2	126
P023	16 Beat A3	126
P024	16 Beat A4	126

P025	16 Beat A5	126
P026	16 Beat A6	126
P027	16 Beat A7	101
P028	16 Beat A8	126
P029	16 Beat A9	171
P030	16 Beat A10	126
16 Beat B		♩ =
P031	16 Beat B1	110
P032	16 Beat B2	110
P033	16 Beat B3	126
P034	16 Beat B4	95
P035	16 Beat B5	101
P036	16 Beat B6	128
P037	16 Beat B7	101
P038	16 Beat B8	101
P039	16 Beat B9	102
P040	16 Beat B10	126
6/8 Beat		♩ =
P041	6/8 Beat 1	126
P042	6/8 Beat 2	126
P043	6/8 Beat 3	135
P044	6/8 Beat 4	135
P045	6/8 Beat 5	182
P046	6/8 Beat 6	153
P047	6/8 Beat 7	153
P048	6/8 Beat 8	153
P049	6/8 Beat 9	124
P050	6/8 Beat 10	154

Swing		♩ =
P051	Swing 1	83
P052	Swing 2	70
P053	Swing 3	70
P054	Swing 4	70
P055	Swing 5	85
Ballad		♩ =
P056	Ballad 1	60
P057	Ballad 2	60
P058	Ballad 3	48
P059	Ballad 4	66
P060	Ballad 5	78
Metal		♩ =
P061	Metal 1	180
P062	Metal 2	140
P063	Metal 3	140
P064	Metal 4	153
P065	Metal 5	153
Jazz		♩ =
P066	Jazz 1	100
P067	Jazz 2	100
P068	Jazz 3	100
P069	Jazz 4	117
P070	Jazz 5	119
Latin		♩ =
P071	Latin 1	120
P072	Latin 2	105
P073	Latin 3	125

|		
P074	Latin 4	106
P075	Latin 5	97
P076	Latin 6	120
P077	Latin 7	120
P078	Latin 8	90
P079	Latin 9	125
P080	Latin 10	116
Dance A		♩ =
P081	Dance A1	116
P082	Dance A2	120
P083	Dance A3	122
P084	Dance A4	128
P085	Dance A5	90
P086	Dance A6	82
P087	Dance A7	86
P088	Dance A8	118
P089	Dance A9	120
P090	Dance A10	118
Dance B		♩ =
P091	Dance B1	81
P092	Dance B2	168
P093	Dance B3	120
P094	Dance B4	140
P095	Dance B5	138
P096	Dance B6	70
P097	Dance B7	85
P098	Dance B8	75
P099	Dance B9	80
P100	Dance B10	95

MR101_OM07EN

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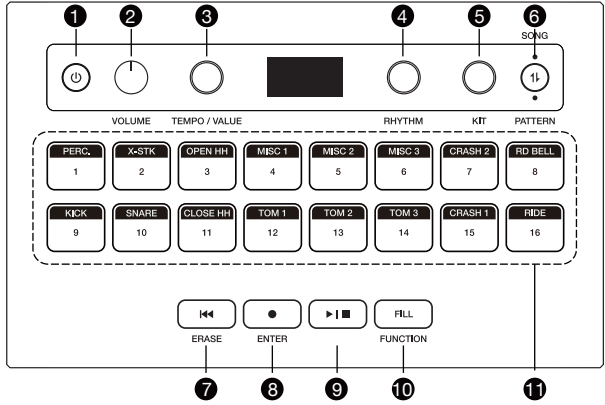
1. [POWER]: Press to turn Power on or off alternately.
2. [VOLUME]: Turn clockwise to increase or counter-clockwise to decrease master output volume.
3. [TEMPO / VALUE]: Turn clockwise to increase or counter-clock wise to decrease global tempo. Under Function setting, use this knob to change the desired parameter value.
4. [RHYTHM]: Turn this knob clockwise or counter-clockwise to load next or previous rhythm pattern respectively.
5. [KIT]: Turn this knob clockwise or counter-clockwise to load next or previous drum kit respectively.
6. [MODE]: Press to go to SONG or PATTERN modes alternately.
7. [Playhead / ERASE]: Press to set the playback location to the current pattern or song's beginning. In Function, press to exit from it. In User pattern recording, press and hold this button and then the pads whose recorded sound you wish to delete.

8. [Rec / ENTER]: Press to engage Rec stand-by. In Function, use this button to confirm the operation if asked.
9. [Play/Stop]: Press to start or stop playing back the current pattern or song. When Rec stand-by is engaged, press to start the recording. In Recording, press to stop the recording.
10. [FILL / FUNCTION]: When a preset pattern is playing, press to apply a Fill at the end of the pattern. When no pattern or song is playing, press to enter Function setting.
11. Pads: Hit anytime to play back the assigned sound.
    In Recording, use to input the desired sound at the right timing.
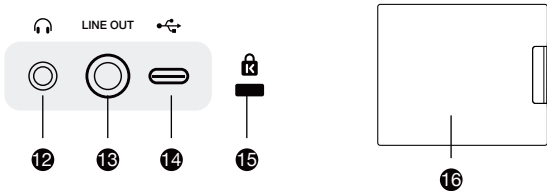
12. Phones Output: For connecting headphones or earphones.
13. Line Output: For connecting to an external PA system.
14. USB-C Connector: For connecting an USB-C cable to power this device, as well as connecting to an external computer or a mobile device to use USB-Audio and/or MIDI.
15. Security Lock: For connecting a suitable securing device.
16. Battery Compartment: For installing 4 x AA batteries to power this device.

01 BASIC 1 ⑰ 01 BASIC 1 ㉒ Pad Sens
P001 ⑱ P001 ㉓ Fixed
BPM 126 | 4/4 BPM 126 | 1-3
⑲ ⑳ ⑲ ㉑
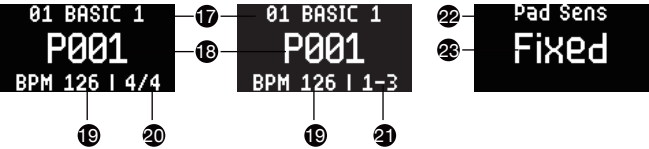
17. Kit number and name currently loaded
18. Pattern or song number currently loaded
   • P001 ~ 100: Preset rhythm pattern
   • U001 ~ 100: User rhythm pattern
   • S001 ~ 050: User song
19. Tempo value currently set
20. Time signature set for the currently loaded pattern
21. Bar and beat information when a pattern is playing
22. Setting item name in Function
23. Corresponding item value currently set

PATTERN Mode

Pattern is a 4-bar rhythm phrase that can be played in a loop on its own or form a song when chained in series.

Playing Preset or Recorded User Rhythm Patterns

1. Select PATTERN mode on [MODE] button.

2. Use [RHYTHM] knob to choose a desired pattern, whether it is from Preset (P001 ~ 100) or User (U001 ~ 100). If a User pattern slot is empty, the slot number in the display shows an ✳ to it.

3. Press [Play/Stop] button to start and stop the playback. The pattern will be kept playing in a loop manner until you stop it.

4. Tempo and Kit can be changed immediately by their knobs, both before and during the playback. (Each Preset pattern has its own default tempo and kit when first dialed in.)

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• Quantize (Note Resolution): Changes the minimum timing grid size set. The finer it is, the more expressive your input can be, while it can pick up more subtle timing mistakes.

Once a pattern is recorded, note strengths, time signature and note resolution are memorized and cannot be altered later.

5. Stand-by: Press [Rec] button to engage recording stand-by. [Rec] button LED is lit. Press this button again at this point if you wish to exit from the stand-by state.

6. Starting recording: Press [Play/Stop] button to start the recording. There will be a pre-count before entering the 1st bar and beat, as well as a guiding metronome throughout the pattern. The pre-count length depends on the time signature set for the pattern.

7. Recording notes: Hit the pads as you wish while recording is running. Each pattern slot has a 4-bar length, all of which you may wish to fill in. This 4-bar length rotates and is played back in a loop manner until you press [Play/Stop] again to stop it.
[Playhead] button can also be used during recording, should you wish to go back to the beginning of the pattern anytime. Tempo and kit can also be changed on the fly, during recording.

8. Finishing recoding: Press [Play/Stop] button to stop and finalize recording. The current User slot has the recorded pattern and no longer has the ✳ to its displayed name.

Modifying Existing User Patterns

1. Note addition: Dial in to an existing User pattern slot and perform the recording procedure. During recording, previously recorded notes will all be played back, on top of which you can additionally hit desired pads and input their sounds.

2. Note deletion: Dial in to an existing User pattern slot and perform the recording procedure. During recording, press and hold [ERASE]. While holding this button, (after 2 seconds recommended of holding) also press and hold the pad whose existing sound you wish to delete in the pattern. The deletion is performed for the location and period you hold the pad.

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5. If you change the pattern by [RHYTHM] knob during the play back, the current pattern continues playing to the end of its length (4 bars), and then the next chosen pattern will start playing from the next loop.
In this case, tempo will be kept from the previous pattern, while kit will be renewed to the next pattern's default.

6. Press [Playhead] button before or during the playback, and the playhead will be taken back to the beginning of the pattern immediately.

Applying a Fill (Preset Only)

1. During a Preset pattern playback, press [FILL] to apply a Fill at the end of the pattern length (4 bars). [FILL] button LED is lit.

2. If you press [FILL] before the playback reaches the end of the 3rd bar, or 4-1 in the display, the Fill is applied at the end of the currently playing 4-bar loop.
If you press [FILL] in the 4th bar, or after 4-1 in the display, the Fill is applied at the end of the next 4-bar loop.

Recording User Rhythm Patterns

1. Select PATTERN mode on [MODE] button.

2. Choosing a User pattern slot: Use [RHYTHM] knob to go to a desired User pattern slot (U001 ~ 100), whether you wish to record a new pattern in an empty slot (with ✳), or continue working on an already recorded pattern.

3. Setting tempo: At this point, if you are to record a new pattern, you have the opportunity to set a desired tempo value by using [TEMPO] knob. It will be memorized in the pattern you put together now. If you are reworking an already recorded pattern, you can also change tempo from the previously memorized state.

4. Setting pad sensitivity, time signature and note resolution: Press [FUNCTION] and go to the desired parameters at this point if you wish to set them as you prefer.
   • Pad Sens: Change how the percussion pads on the panel respond to the amount of pressure you apply on them.
   • Time Sig: Change how many beats or 1/4 notes you wish to have in a bar.

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3. Changing tempo: Dial in to an existing User pattern slot.
Before or during recording, use [TEMPO] knob to alter them. If performed before recording, run the recording process then (stand-by ~ recording ~ stopping/finishing) to apply the changed tempo. If performed during recording, once it's stopped and finalized, the tempo is overwritten now.

Copying, Pasting and Erasing Patterns

See FUNCTION.

SONG Mode

Song is a chain of patterns that can work as a complete song, offering structural sections such as intro, chorus, etc.

Playing Songs

1. Select SONG mode on [MODE] button.

2. Use [RHYTHM] knob to choose a desired song (S001 ~ 050). If a song slot is empty, the slot number shows an ✳ to it in the display.

3. Press [Play/Stop] button to start and stop the playback. When the song playback reaches the end of the song, it will stop the playback and will not repeat the song in the loop manner.

4. Tempo and Kit can be changed immediately by their knobs, both before and during the playback. (Each song has its own tempo memorized when recorded.)

5. During playing back, it is not possible to use [RHYTHM] knob to move to another song. It is also not possible to use [FILL] button during the playback.

6. Press [Playhead] button before or during the playback, and the playhead will be taken back to the beginning of the pattern immediately.

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Recording User Songs

1. Select SONG mode on [MODE] button.

2. Choosing a song slot: Use [RHYTHM] knob to go to a desired song slot (S001 ~ 050), whether you wish to record a new song on an empty slot (with ✳), or continue working on an already recorded song.

3. Setting tempo: At this point, if you are to record a new song, you have the opportunity to set a desired tempo value by using [TEMPO] knob. It will be memorized in the song you build now. If you are reworking an already recorded song, you can also change tempo from the previously memorized state.

4. Starting recording: Press [Rec] button to start recording song. [Rec] button LED is lit. Now you are on the 1st slot (1/200) of the pattern chain in the song.

5. Laying out patterns: Use [RHYTHM] knob to choose a desired pattern for the slot, whether it is from Preset (P001 ~ 100) or User (U001 ~ 100). If a User pattern slot is empty, the slot number in the display shows an ✳ to it. If taken from the preset group, the pattern will come with Fill automatically. It is possible to use [Play/Stop] button to hear the pattern in the current slot for reference.

6. Once you have assigned a desired pattern for the slot, press [ENTER] to confirm the current and move to the next slot. (For example, press [ENTER] and confirm 1/200, and you will see 2/200 presented as next slot.) Moving to the next slot, you will first see "No Data" shown in the display. From here, turn [RHYTHM] knob clockwise by one click and you will see P001 loaded. If it is the end of the song, go to step 7.
If you are reworking an existing song, it is possible to change the pattern assigned in each slot as you go through the chain.

7. Finishing recoding: Repeat step 5 and 6 until the whole song is complete as intended. Once it is complete, long-press [ENTER] to confirm and finalize recording. The current song slot has the pattern chain just assembled and no longer has the ✳ to its displayed name.

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Modifying Existing Songs

1. Changing patterns in a song: Dial in to an existing User song, press [Rec] to enter song recording, and you will be presented the first slot (1/200) of the pattern chain. Repeatedly press [ENTER] to confirm the laid out patterns, one by one, until you get to the slot whose pattern you wish to change. On the slot you intend to change, use [RHYTHM] knob to change the assigned pattern. Once it is complete, long-press [ENTER] to confirm and finalize recording.

2. Changing tempo: Dial in to an existing User song. Before or during recording, use [TEMPO] knob to alter tempo. If performed before recording, run the recording process then (recording ~ finishing) to apply the changed tempo. If performed during recording, once it's confirmed and finalized, the tempo is overwritten now.

Copying, Pasting and Erasing Songs

See FUNCTION.

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FUNCTION

Press [FUNCTION] while pattern/song playback is not active, and you will see the 1st setting item presented in the display (Pad Sens).
Press this button repeatedly to go to the next items, and use [VALUE] knob to change the value on each item. To exit from Function, press [ERASE] or wait for 5 seconds with no operation.

Parameter	Range	Description
Pad Sensitivity	Soft Medium Hard (default) Fixed	How the percussion pads respond to the amount of pressure you apply
Fixed Sensitivity	60 ~ 127 (Default: 100)	Value for Fixed sens when selected
Perspective	Player (default) Audience	Stereo pan setting for the speakers, line and phone outputs
Reverb Type	Hall 1 (default), 2, 3 Room 1, 2	Type of reverb applied globally
Reverb Level	0 ~ 10 (Default: 4)	Level of global reverb
Time Signature	2, 3 ,4 (default), 5, 6, 7, 9, 11, 13, 15	How many beats or 1/4 notes you wish to have in a bar
Quantization	Finest: 1/384-note Fine (default): 1/128 Normal: 1/64-note Tight: 1/32-note Tightest: 1/16-note	Minimum timing grid size set for User pattern recording via percussion pads
Metronome Volume	0 ~ 10 (Default: 6)	Volume of metronome used in pattern rec

Pattern, Song Copy	Choose a pattern or a song to copy by [VALUE] knob, press [ENTER], then choose a User slot to paste it to by [VALUE] knob again, and press [ENTER] to confirm.	
Pattern, Song Erase	Choose a pattern or a song to erase by [VALUE] knob, press [ENTER]. On "Sure ?" message, press [ENTER] again to confirm.	
MIDI Out Mapping	Type-1 ~ 6 User (Default: Type-1)	How the percussion pads access different MIDI keys when used as an external MIDI controller (best effort and not authorized)
User Map	0~127	Assign arbitrary MIDI keys to 16 pads individually.
MIDI Out Channel	1 ~ 16 (Default: 1)	Output channel from the percussion pads
Local Sound	On (default), off	Turn the internal sounds of the product on or off.
Factory Reset	This command deletes all User data and altered Function settings. Press [ENTER] and on "Sure ?" message, press [ENTER] again to confirm.	
Auto Power Off	30, 60 (default) mins Off	Time of inactivity set before the product turns off, or to disable this function itself.

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