INFORMATION FOR YOUR SAFETY!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC COMPLIANCE NOTICE

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 used in accordance with the instructions, may cause harmful interference to radio communications and 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 of the receiver. Consult the dealer or an experienced radio/TV technician if help is needed with interference.

NOTE: FMIC will not be responsible for unauthorized equipment modifications that could violate FCC rules, and/or void product safety certifications.

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.

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.
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Panel Description

Front Panel

1. **POWER BUTTON**
   Press the [POWER] button to turn the power on and off.

2. **[MODE] BUTTON**
   Press [mode] button to select the mode from PATTERN, KIT, VOICE, CLICK.

3. **[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.

4. **3-DIGIT LED DISPLAY**
   3-digit LED and LED indicators

5. **MASTER VOLUME KNOB**
   Control the volume of phone and line out.
   Turn it clockwise to increase the volume and counter-clockwise to decrease the volume.

6. **[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.

7. **START/STOP Button**
   Start or stop playing.

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

Rear Panel

9. **POWER SUPPLY JACK ( DC IN 9V )**
   Connect an AC adaptor to this jack.

10. **USB PORT**
    Connect to computer. Note that the USB port will only transmit MIDI message between the computer and module.

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.)
Using the provided cable harness, connect the pads, cymbals, and pedal using the assignments listed on each cable. (See the below illustration for reference)

**Note:**
1. The voice of the hi-hat pad hitting is controlled by the 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 the cymbal pad (ride, crash or hi-hat) is near the edge of the pad, which is different from other pads.

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

**Connecting Pads and Pedals**

For details on assembling the drum stand, attaching the digital drum and connecting pads, refer to the Assembly Instructions.

Bass drum pedal NOT included with some models.
Connections

Connecting Audio Equipment

1. When you want to listen to the sounds with an amplifier, connect amplifier with the 1/4-inch 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.

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

1. Use the audio output of a CD player, or other audio source, to connect with the AUX IN jack on the rear panel. This audio can be mixed with the sound of the drums. This function will allow you to play along with your favorite song.
2. The volume of the external signal is adjusted with the VOLUME knob.

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.

Connecting a Computer

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 and MAC OSX environment.
The module will be recognized as ‘USB Audio device’ to receive and transmit MIDI messages through a single USB cable, USB transmits MIDI and USB 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.

VOLUME
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.

Connecting a Computer
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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 and MAC OSX environment.
The module will be recognized as ‘USB Audio device’ to receive and transmit MIDI messages through a single USB cable, USB transmits MIDI and USB 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

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.

Power ON

After confirming all connections have been completed, rotate the volume knob to the left (minimum volume level) before turning the power on.
Press and hold the [POWER] button for 2 seconds to turn the power on.
Display shows the kit’s number and its indicator lights up.

Set the main volume

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

The module will automatically turn off if there aren’t any operations for about 30 minutes, except during playing song or metronome, record, MIDI in via USB port from computer and strike pads. To disable the automatic power-off function, press the [START/STOP] button and then turn on the power. The 3-digit LED will display "POF".
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 light 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 light 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 light 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)
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 light up, the 3-digit-LED will display the kit number (001).

2. Press [+] or [-] to adjust the value. Range: (001-010).

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).

Switch reverb on/off

1. Press [MODE] button to select the kit mode, the kit LED indicator will light up.

2. Press the [PAGE] button to select the kit reverb page, reverb effect can be turned on or off by pressing button [+] or [-].
In voice mode, there are 3 pages:

1. Voice number: (1-158).
2. Voice volume: (0-32).
3. MIDI note: (0-99).

**Select the voice**

In voice mode, voice number: (1-158).

1. Press [MODE] button to select the voice mode, the voice LED indicator will light 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 158).

**NOTE:**
When you select a voice for the hi-hat drum pad, you only can select the hi-hat group voices, from group 1-group 11 (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 light 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 light up.

2. Press [PAGE] button to select the midi note page, strike a 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:

<table>
<thead>
<tr>
<th>NO.</th>
<th>NAME</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CRASH</td>
<td>49</td>
</tr>
<tr>
<td>2</td>
<td>TOM 1</td>
<td>48</td>
</tr>
<tr>
<td>3</td>
<td>TOM 2</td>
<td>45</td>
</tr>
<tr>
<td>4</td>
<td>TOM 3</td>
<td>43</td>
</tr>
<tr>
<td>5</td>
<td>RIDE</td>
<td>51</td>
</tr>
<tr>
<td>6</td>
<td>KICK</td>
<td>36</td>
</tr>
<tr>
<td>7</td>
<td>SNARE</td>
<td>38</td>
</tr>
<tr>
<td>8</td>
<td>HIHAT CLOSE</td>
<td>42</td>
</tr>
<tr>
<td>9</td>
<td>HIHAT OPEN</td>
<td>46</td>
</tr>
<tr>
<td>10</td>
<td>HIHAT PEDAL</td>
<td>44</td>
</tr>
</tbody>
</table>

Tempo

The tempo range is 30-280

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.
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 light 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 cannot be edited.

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 light 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 light 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 light 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)
Restoring the factory presets can be implemented by following operations:

1. Turn on the power with both [+ ] and [ - ] held down.
2. This function will replace the current settings of the following parameters back to their default preset values:
   - Kit volume
   - Voice number
   - Voice volume
   - MIDI note

1. Hold down on the [CLICK] button for 2 seconds to enter the demo and play the demo “dE”.

2. Press [START/STOP] button to stop the demo playing.

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

1. Press the [CLICK] button to start the click, the click indicator will flash with 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
158

Preset Pattern
40

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

KIT Configuration
Snare: 8" single zone pad.
Tom1~tom3: 8" single zone pad.
Ride: 12" single zone cymbal.
Crash: 10" single zone cymbal with choke.
Hihat: 10" single zone cymbal.

Display
LED display

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

Power Supply
AC adaptor

Preset Drum KIT list

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Standard 1</td>
</tr>
<tr>
<td>002</td>
<td>Live</td>
</tr>
<tr>
<td>003</td>
<td>Power Rock</td>
</tr>
<tr>
<td>004</td>
<td>New Country</td>
</tr>
<tr>
<td>005</td>
<td>Rock</td>
</tr>
<tr>
<td>006</td>
<td>Jazz Brush</td>
</tr>
<tr>
<td>007</td>
<td>Latin</td>
</tr>
<tr>
<td>008</td>
<td>Beat Box</td>
</tr>
<tr>
<td>009</td>
<td>Old Skool</td>
</tr>
<tr>
<td>010</td>
<td>House</td>
</tr>
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</table>
## Drum Instrument List

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Tempo</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Fusion 1</td>
<td>92</td>
</tr>
<tr>
<td>002</td>
<td>Big Band 1</td>
<td>160</td>
</tr>
<tr>
<td>003</td>
<td>Modern Pop</td>
<td>136</td>
</tr>
<tr>
<td>004</td>
<td>HiHop</td>
<td>110</td>
</tr>
<tr>
<td>005</td>
<td>Latin Jazz 1</td>
<td>130</td>
</tr>
<tr>
<td>006</td>
<td>Funk 1</td>
<td>120</td>
</tr>
<tr>
<td>007</td>
<td>Electronic &amp; Funk</td>
<td>116</td>
</tr>
<tr>
<td>008</td>
<td>Funk 2</td>
<td>112</td>
</tr>
<tr>
<td>009</td>
<td>Pop Funk 1</td>
<td>112</td>
</tr>
<tr>
<td>010</td>
<td>Fusion 2</td>
<td>112</td>
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<tr>
<td>011</td>
<td>Funk 3</td>
<td>120</td>
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<tr>
<td>012</td>
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<td>Pop Funk 2</td>
<td>106</td>
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<tr>
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<td>R&amp;B</td>
<td>86</td>
</tr>
<tr>
<td>016</td>
<td>Drum &amp; Bass 1</td>
<td>168</td>
</tr>
<tr>
<td>017</td>
<td>Break Beat</td>
<td>108</td>
</tr>
<tr>
<td>018</td>
<td>Dance</td>
<td>130</td>
</tr>
<tr>
<td>019</td>
<td>Drum &amp; Bass 2</td>
<td>170</td>
</tr>
<tr>
<td>020</td>
<td>Latin Dance</td>
<td>128</td>
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</tbody>
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<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
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</tr>
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<tbody>
<tr>
<td>021</td>
<td>Rock Crash</td>
<td>127</td>
</tr>
<tr>
<td>022</td>
<td>Rock Crash 3</td>
<td>128</td>
</tr>
<tr>
<td>023</td>
<td>Classic HH Pedal</td>
<td>129</td>
</tr>
<tr>
<td>024</td>
<td>Classic HH Pedal</td>
<td>130</td>
</tr>
<tr>
<td>025</td>
<td>Classic HH Pedal</td>
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<tr>
<td>026</td>
<td>Classic HH Pedal</td>
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## Preset Pattern List

<table>
<thead>
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<th>No.</th>
<th>Name</th>
<th>Tempo</th>
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</thead>
<tbody>
<tr>
<td>001</td>
<td>Swing</td>
<td>172</td>
</tr>
<tr>
<td>002</td>
<td>Latin Jazz 2</td>
<td>126</td>
</tr>
<tr>
<td>003</td>
<td>Big Band 2</td>
<td>152</td>
</tr>
<tr>
<td>004</td>
<td>3/4 Jazz</td>
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<tr>
<td>005</td>
<td>Jazz</td>
<td>150</td>
</tr>
<tr>
<td>006</td>
<td>6/8 Ballad</td>
<td>96</td>
</tr>
<tr>
<td>007</td>
<td>Pop Ballad</td>
<td>80</td>
</tr>
<tr>
<td>008</td>
<td>Pop Bossa</td>
<td>120</td>
</tr>
<tr>
<td>009</td>
<td>16 Beat Pop</td>
<td>120</td>
</tr>
<tr>
<td>010</td>
<td>Pop Shuffle</td>
<td>86</td>
</tr>
<tr>
<td>011</td>
<td>Samba</td>
<td>236</td>
</tr>
<tr>
<td>012</td>
<td>Mambo</td>
<td>126</td>
</tr>
<tr>
<td>013</td>
<td>Latin Rock</td>
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<tr>
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<td>Latin Pop</td>
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<tr>
<td>015</td>
<td>Guitar Bossa</td>
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</tr>
<tr>
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<td>Country Blues</td>
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<td>017</td>
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<tr>
<td>021</td>
<td>Demo Funk</td>
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<td>NO.</td>
<td>NAME</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>-----------------------</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Acoustic Grand Piano</td>
<td></td>
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## MIDI Implementation Chart

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