

Audible Alarm  
Instruction Manual  
[TYPE : BD]

We thank you for purchasing PATLITE Audible Alarm. Before you start using the product, please read this instruction manual carefully to use the product correctly. Please store this document in a safe place. Be sure to read this document again when you are about to perform tasks such as maintenance and repair. And if you have any questions, contact a branch office or the technical support printed on the last page.

Safety Precautions

The precautions which must be observed to prevent damage to the person using the product, to people around it, or to property are described in a manner shown below.

- The seriousness of injury or damage caused by ignoring the indication and using the product in a wrong way is categorized with the indications below and descriptions are added to each of them

	The sections with this indication contain "items which could cause death or serious injury" if ignored.
	The sections with this indication contain "items which could cause injury or property damage only" if ignored.

1. Cautions Which Must Be Observed for Safety Use

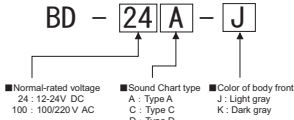
- **Warning**
  - Be sure to turn the power off before wiring or installing the product. Failure to do so may cause electric shock.
  - Take care to perform wiring correctly. If the wiring is incorrect, internal circuit may be damaged by fire, and it may also be a cause of fire.
  - As for the power source, be sure to use this product within the allowable range of voltage. Failure to do so may be a cause of fire or damage to the product.
  - When the product is used for security purposes in which safety is emphasized, be sure to perform daily maintenance, and design a system which is capable of tackling the occurrence of unlikely event such as malfunctioning or failure.
  - Be sure to let specialists perform installation task which requires construction work. Failure to do so may cause electric shock, fire, or falling.
- **Caution**
  - Before you start working on the product, discharge static electricity from your body. By touching another grounded metal part with bare hand, the static electricity can be discharged.
  - To protect power source circuit and internal circuit of the product, be sure to install external fuse.

Failures caused by using the product in ways not observing the Warnings and Cautions, by disassembling or converting the product, or by natural disaster are not covered under warranty. And do not use the product in ways other than the ways described in this document.

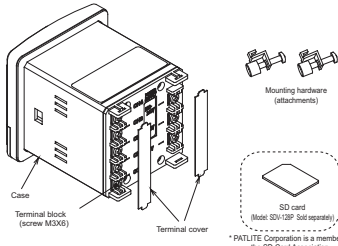
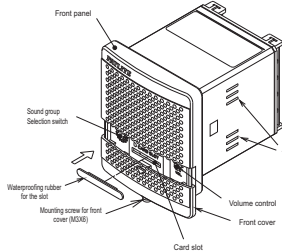
Other Precautions

- Use the product in an environment where there is no electromagnetic or inductive noise. Speakers are known to generate noise.
- Use the product in an environment where there is no corrosive gas. Failure to do so may cause malfunction.
- Do not use the product as fire alarm.

2. Model Indicating Format



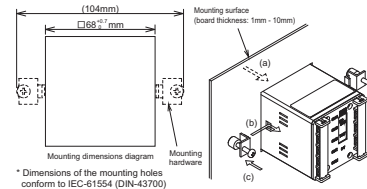
3. Part Names



4. How to Install

Install the product according to the procedure below.

- ① Create mounting holes on a mounting surface (board thickness: 1mm - 10mm) where there is enough space for the mounting hardware. (See the mounting dimensions diagram)
- ② (a) Insert the product from the front of the mounting surface.  
(b) Attach the mounting hardware which comes with the product to the holes on the side of the product.  
(c) Then fasten the screws of the mounting hardware. (Recommended fastening torque: 0.7±0.1N・m)
- ③ Confirm that the product and the mounting hardware are installed properly.



- **Warning**
  - Be sure to turn the power off before installing the product. Failure to do so may cause electric shock.
- **Caution**
  - Choose a location for the mounting surface where it has enough strength to support the weight of the product, and where there is less vibration. Failure to do so may be the cause of injury or damage to the product.
  - Be sure to use both pieces of mounting hardware, and fasten them with the recommended fastening torque. Failure to do so may be the cause of injury or damage to the product.

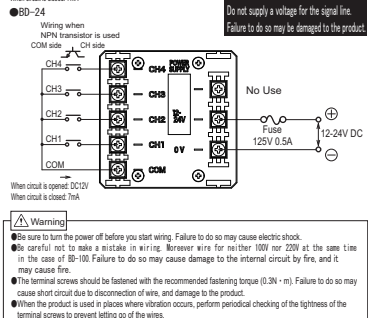
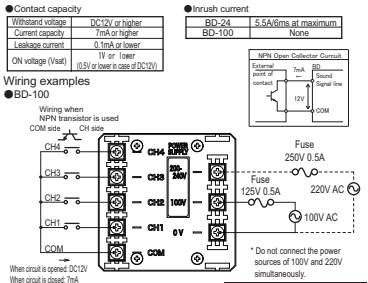
Other Precautions

- Secure a enough space in which the mounting hardware can also be installed when choosing a mounting surface.
- Install the product on a flat surface without burrs and dips. Failure to do so may weaken its resistance to water and dust.
- To prevent the product from falling in places where vibration may be generated, apply thick coating adhesive or the like, and perform periodic checking of the tightness of the mounting hardware.
- Install the product in a way the air ducts are not blocked.
- Keep a space more than 5mm between the terminal block and the metal surface.

5. How to Perform Wiring

Before wiring the product, remove the terminal cover. And after the completion of the wiring attach the terminal cover.

For the external contact of signal line, use no-voltage contact circuit such as relay switch or open collector circuit (NPN type). As for the contact capacity, see the table below.



- **Caution**
  - To protect the power source circuit and the internal circuit of the product, be sure to install an external fuse.

Other Precautions

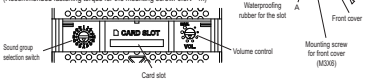
- Be careful not to lose the terminal cover.
- The use of M3 ring terminals with insulating coating is recommended for the wiring of terminal block to prevent disconnection of wires. Recommended product: N1-2S-3 produced by JST Mfg. Co., Ltd. (Product conforming to RoHS)
- When the product is to be used in a condition in which it is connected to power source, install a switch near the main body to be able to turn off the power easily for safety reasons.
- Confirm that the wiring has been performed correctly before turning on the power.

6. How to Use the Product

6-1 Opening and Closing the Front Cover

Open or close the front cover according to the procedure shown below when performing tasks such as adjusting the volume of the sound or selecting the tone color group.

- ① Loosen the mounting screw (M3X6) for the front cover.  
(An screw does not fall out.)
- ② Push the lower front cover section (part A in the figure on the right) lightly with finger to slide it downward.
- ③ When a SD card is to be used, remove the waterproofing rubber for the slot.
- ④ After completing tasks, attach the parts removed in the procedure from ① to ③ in the opposite order.  
(Recommended fastening torque for the mounting screw: 0.3N・m)



Other Precautions

- Be careful not to lose the waterproofing rubber for the slot.
- Do not try too hard to slide down the front cover. To do so may cause the front cover to disassemble.
- Attach the waterproofing rubber for the slot securely. Failure to do so may weaken the product's resistance to water and dust.
- Fasten the mounting screw for front cover with the recommended fastening torque. In places where vibrations occur, the front cover may fall or the product may be damaged.

6-2 Selecting a Sound Group

Use the sound group selection switch to select a group from the 16 tones from A to P. Use a flat-blade screwdriver with the blade thickness of 1.0mm or thinner to turning the switch. (Factory default setting: Sound Group A)

When the sound group P is selected, any sound may be combined freely using an SD card. (Factory default setting: See the table below)

Other Precautions

- Make sure that there is no misalignment with the sound group selection switch when selecting.
- If there is misalignment as shown in the figure on the right, the sound group cannot set properly.

● Sound Chart type A (BD-□A)

Group	CH 1	CH 2	CH 3	CH 4
A	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
B	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
C	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
D	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
E	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
F	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
G	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
H	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
I	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
J	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
K	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
L	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
M	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
N	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
O	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
P	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)

Group	CH 1	CH 2	CH 3	CH 4
A	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
B	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
C	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
D	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
E	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
F	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
G	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
H	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
I	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
J	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
K	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
L	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
M	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
N	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
O	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
P	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)

● Sound Chart type C (BD-□C)

Group	CH 1	CH 2	CH 3	CH 4
A	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
B	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
C	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
D	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
E	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
F	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
G	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
H	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
I	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
J	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
K	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
L	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
M	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
N	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
O	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
P	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)

Group	CH 1	CH 2	CH 3	CH 4
A	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
B	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
C	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
D	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
E	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
F	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
G	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
H	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
I	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
J	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
K	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
L	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
M	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
N	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
O	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)
P	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)	Beat (Japan Instrument)

