PATLITE



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 the document in a sale pleace. Be such to read this document again when you are about And if you have any questions, contact a branch office or the technical support printed on the last page.

The precautions which must be observed to prevent damage to the person using the product, to people around it, or to properly are described in a manner shown below #The seriousness of injury or damage caused by ignoring the infaction and using the product in a wrong way is categorized with the indications below and descriptions are added to each of them

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

1. Cautions Which Must Be Observed for Safety Use

- Description of the product is used for security purposes in which safely is earlied of the surface of uniform day making in large and the surface and the sur

A Caution

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.

- occument.

 (Other Precautions)

 Use the product in an environment where there is no electromagnetic or inductive noise. Speakers are known to generate noise.

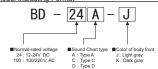
 Ouse the product in an environment where there is no corrosive gas.

 Failure to do so may cause matification.

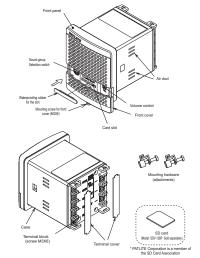
 Output

 Output

2. Model Indicating Format



3. Part Names



- 4. How to Install Install the product according to the procedure below.

 10 create mounting holes on a mounting surface (board thickness: fmm 10mm) where there is exough space for the mounting holdware. (See the mounting dimensions diagram, 2 (a) insert the product from the forst of the mounting surface. (b) Albach the mounting hardware with once with the product to the holes on the side of the product. (c) This taster the sceward for mounting hardware with once with the product to the holes on the side of the product. (c) This taster the sceward for mounting hardware in entitled properly.
- < □68°0.7 mm → 13 (a) [] Dimensions of the mounting holes conform to IEC-61554 (DIN-43700)

Be sure to turn the power off before installing the product. Failure to do so may cause electric shock.

Other Precautions

- Under Precautions:

 Shours a enough pages in which the mounting hardware can also be installed when choosing a mounting surface.

 Finatal the product on a file strikes without bursps and dipt. Fallur to be on may weaken the resistance to water and dust.

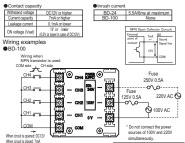
 Depresent the product no file ingin bases where without may be generated up, of the counting bases or the least and perform periods checking of the eightness of the mounting bardware.

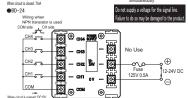
 Or final the product in any best and cash are or both counting bardware.

 Or final the product in any best and cash are or both counting bardware.

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





- when close to other. In:

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A Caution

Other Precautions

- When the control to be the terminal cover.

 The use of M3 ring terminals with insulating coating is recommended for the wiring of terminal to disconnection of the Recommended for the wiring of terminal to disconnection of the Recommended for the wiring of terminal to Rechts (In the Recommended for the wiring of terminal to Rechts) with the product is to be used in a condition in which it is connected to power source, install a
- Titled use products or one of 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 dose 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

- no torque for the mounting screw (1.3N + m)





- Other Precautions

 Ge careful rot to lose the eaterproofing rubber for the sick.

 Go on thy to hard to laid down the fine four cover. To do so may cause the front cover to disassentible.

 Go on thy to hard to laid down the fine the store, it fails to do so many weeken the product's resist to eater and dood.

 To see the found to the store of front cover with the excormended fastering torque. In places where vibrations occur, the front cover may fail or the product may be deamaged.

6-2. Selecting a Sound Group
Use the sound group selection switch to select a group from the 16 types
from A to P. Use at Battables crewdrive with the blade thickness of 1.0mm or
thinner for turning the switch. (Factory default setting. Sound group A)





Sourid Chart type A (BD-CIA)
Sourid List

So

Sound gro	oups			
Group	CH1	CH2	CH3	CH4
A	Beep (slow intermittent horn)	Statter (rapid intermittent horn)	Bell (clear highpitched bell)	Yelp (rapid siren)
В	Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
С	State (spid province (from) Self (dear highpached bell)	Synthesized Melody Chime	Chime	Call Sign
D	Fur Elise	Maiden's Prayer	Chime	Call Sign
E	Minuet	Annie Laurie	Chime	Call Sign
F	London Bridge is falling down	Holdiridia	Chime	Call Sign
G	Mary had a little lamb	The Camptown Races	Chime	Call Sign
Н	Cuckoo	Blacksmith in the village	Chime	Call Sign
I	On the Avignon bridge	Daydream Believer	Chime	Call Sign
J	Amarylis	Symphony No. 40	Chime	Call Sign
K	Silent Lakeside	Mountain musician	Chime	Call Sign
L	Romance De Amour	Petrouchka	Chime	Call Sign
M	Grandfather's Clock	Ave Maria	Chime	Call Sign
N	Holdiridia	Mountain musician	Styttenhapid intermittent hom) sielliclear highpached belli	Synthesized Melody Chime
0	Mary had a little lamb	Romace De Amour	Self-clear highpitched bell)	Synthesized Melody Chime
P	The Camptown Races	Cuckoo	Petrouchka	Grandfather's Clock

●Sound Chart type C (BD-□C)

	Sound List						
01	Beep (slow intermittent horn)	09	Stytler(rapid intermittent hom) Bellicielar highpitched bell)	17	Amairono Kamino Otome	25	I Don't Want to Miss a Thing
02	Statter (rapid intermittent horn)	10	Synthesized Melody Chime	18	Les Champs-Elysees	26	Yozorano Mukou
	Bell (clear highpitched bell)	11	Chime	19	Canon	27	Aiwa Katsu
04	Yelp (rapid siren)	12	Call Sign	20	Rara Sanshain	28	Truth
05	Rapid Hi-Lo	13	Can't Take My Eyes off of You		Uchuusenkan Yamato	29	Gattsudaze
06	Melody Chime	14	Top of the World	22	Oshiete	30	Odoru Ponpokorin
07	Synthesized Piano	15	The Entertainer	23	Makenaide	31	Imasugu Kisu Mi
08	Synthesized Bell	16	Amazing Grace	24	Gonna Fly Now (Theme for "Rocky")	32	Haruyo Koi
THE TO SOURCE DOD 14 CARDENTED DIGITADD LYBER 15, 100 IN COURT 15, CARDELL HARES D							

13:COERE BOB 14:CAMPENTER RICHARD LYNN 15:JOPLIN SOTT 16:CAMRELL JAMES P 17:Kouichi Sagiyama 18:BILSHAM WICHAEL 19:PACHELBEL JURNAN 20:1 jich ilt Hiromasia 21:Hirothi Hiyayama 27:Iskon Bintanba 23,07:Hebrum 05 24:TOURI Bill 25:AMMSEN DINNE 26:Yuka Kawamura 27:KAM 28:Wasahiro Andoh 29:Totasu Matsumoto 31:Tatsuya Hirakawa 27:Yumi Matsudon

Sound gr	oups			
Group	CH1	CH2	CH3	CH4
A	Beep (slow intermittent hom)	Statter (rapid intermittent horn)	Bell (clear highpitched bell)	Yelp (rapid siren)
В	Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
С	Station yapid priorysident formy Selliclear highpached bell)	Synthesized Melody Chime	Chime	Call Sign
D	Can't Take My Eyes off of You	Top of the World	Chime	Call Sign
E	The Entertainer	Amazing Grace	Chime	Call Sign
F	Amairono Kamino Otome	Les Champs-Elysees	Chime	Call Sign
G	Canon	Rara Sanshain	Chime	Call Sign
Н	Uchuusenkan Yamato	Oshiete	Chime	Call Sign
I	Makenaide	Gonna Ry Now (Theme for "Rocky")	Chime	Call Sign
J	I Don't Want to Miss a Thing	Yozorano Mukou	Chime	Call Sign
K	Aiwa Katsu	Truth	Chime	Call Sign
L	Gattsudaze	Odoru Ponpokorin	Chime	Call Sign
M	Imasugu Kisu Mi	Haruyo Koi	Chime	Call Sign
N	Les Champs-Elysees	Truth	Stytter(rapid internitient horn) Bell (dear highpached bell)	Synthesized Melody Chi
0	Canon	Gattsudaze	Sturser yapid (restricted from) Seels dear highosched beil)	Synthesized Melody Chi

●Sound Chart type D (BD-□D)

	Sound List						
	Beep (slow intermittent horn)		Chime	17	Saafu Tengoku Sukii Tengoku		Wiegenlied
	Statter (rapid intermittent horn)		Call Sign	18	Iro Howaitoburendo		Rudolph the Red-nosed Reindeer
03	Bell (clear highpitched bell)		Runner	19	Happy Birthday		She Wore a Yellow Ribbon
04	Yelp (rapid siren)	12	Marnotte Agetai	20	Hi Ho		Oh My Darling Clementine
05	Rapid Hi-Lo	13	Oribiao Kikinagara	21	I've been working on the Railroad		Yellow Rose of Texas
06	Melody Chime	14	A September	22	Bear Song	30	Yankee doodle
07	Synthesized Piano	15	Doyoubino Kaibita		Toys Go Cha Cha Cha		When the Saints Go Marching In
08	Synthesized Bell	16	Akino Kehai	24	Konnako Irukana	32	Londonderry Air
Author 11:New Funky Sueyoshi 12-17:Yuni Matsutoya 13:Ami Ozaki 14:Tetsuji Hayashi 15:Tatsuro Yamashita							

16:Kazumasa Oda 18:Neria Takeuchi 19:HILL WILDRED J 20:CHROPHILL FRAMK E 21:22:27:29:30:31:32:TRADITIONAL 23:Nebuyashi Kashiba 24:Takeshi Shibuya 25:SCHUBERT FRAMZ 25:MARKS JOHN D 28:Neria-Talik sener

Sound groups								
Group	CH1	CH2	CH3	CH4				
A	Beep (slow intermittent hom)	Statter (rapid intermittent horn)	Bell (clear highpitched bell)	Yelp (rapid siren)				
В	Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell				
С	Runner	Mamotte Agetai	Chime	Call Sign				
D	Oribiao Kikinagara	A September	Chime	Call Sign				
E	Dayaubino Kolbito	Akino Kehai	Chime	Call Sign				
F	Saafu Tengoku Sukii Tengoku	Iro Howaitoburendo	Chime	Call Sign				
G	Hi Ho	Bear Song	Chime	Call Sign				
н	Konnako Irukana	Rudolph the Red-nosed Reindeer	Chime	Call Sign				
I	Oh My Darling Clementine	Yankee doodle	Chime	Call Sign				
J	Runner	Mamotte Agetai	Oribiao Kikinagara	A September				
K	Dayaubino Koibito	Akino Kehai	Saafu Tengoku Sukii Tengoku	Iro Howaitoburendo				

●Sound Chart type E(BD-□E)

	Sound List						
		09	Stutter+Bell	17	Inverted Reveille	25	Annie Laurie
			Synthesized Melody Chime				London bridge is falling down
	Bell (clear highpitched bell)			19	Ringing Phone		Mary had a little Lamb
04		12		20	Two Tone		The camptown Races
05		13		21	Alarm Clock	29	
06	Melody Chime	14	Galloping Hi-Lo	22	Ringing Hi-Lo	30	Symphony No.40
07	Synthesized Piano	15		23	Fur Elise	31	Ave Maria

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	Sound g	roups			
1	Group	CH1	CH2	CH3	CH4
	A	Beep (slow intermittent horn)	Stutter (rapid intermittent hom)	Bell (dear highpitched bell)	Yelp (rapid siren)
	В	Rapid Hi-Lo	Melody Chime	Synthesized Piano	Synthesized Bell
	С	Stutter+Bell	Synthesized Melody Chime	Chime	Call Sign
	D	Train Ride	Galloping Hi-Lo	Chime	Call Sign
	E	Alien Chatter	Falling Crystals	Chime	Call Sign
	F	Inverted Reveille	Garactic Motor	Chime	Call Sign
	G	Ringing Phone	Two Tone	Chime	Call Sign
	Н	Alarm Clock	Ringing Hi-Lo	Chime	Call Sign
	I	Fur Elise	Minuet	Chime	Call Sign
	J	Annie Laurie	London bridge is falling down	Chime	Call Sign
	K	Mary had a little Lamb	The camptown Races	Chime	Call Sign
	L	Amaryllis	Symphony No.40	Chime	Call Sign
	M	Ave Maria	Grandfather's Clock	Chime	Call Sign
	N	Fur Elise	London bridge is falling down	Chime	Call Sign
	0	Annie Laurie	Minuet	Chime	Call Sign
	P	Two Tone	Alarm Clock	Symphony No.40	Ave Maria

6-3.How to Combine Sounds
When the sound group P is selected, sounds can be chosen from
the 32 sounds and combined freely using an SD card.
■ltems prepared by customers
SD card (Type: SDV-128P Sold separately), Personal computer, SD card Reader/Writer

Creating the sound combination data
 By using a personal computer, data consisting of different sounds is created
 ©Connect SD card Reader/Writer to PC, and then insert an SD card.



(2) In the My Computer of the PC, open the drive into which the SD card is inserted



③Within the window opened, click with the right mouse button, and point New Do and then choose Text Document.
*The name may vary such as notepad depending on the OS and its version.



(4) Change the file name of the created text do TO-LIST.txt

* Use half-size upper- or lowercase letters for the file name.

If the extension *.txt* is not displayed when the text document is created, change the file name to [OTO-LIST].



Enter the number of the sound (see 6-2. Sound List) you want to combine into the text document created in (a) and store it in the SD card. * Enter the sound number with half-size numbers of 8 digits.



Example

When a combination of the following sounds are to be created with the type BD-□A.

CH 1: Beep CH 2: Amaryllis CH 3: Synthesized Piano CH 4: Grandfather's Clock
Enter the number shown below into the text document, and save the file.

[01250731]



- 2.Transferring the sound combination data
 The sound combination data created in 1 Creating the sound combination data? It is transferred to the product.
 If the product of this product.
 If the product is set to extra create the SC creating the sound combination data? is stored, in the create this could like the data? It is set to extra create the sound combination data? is stored, in the create this created in the sound data.

 When transferring the sound data is completed, you will hear a high-plathed time. After hearing the sound, put dut the SD care.

 "The writing completes in 1 second or less. When you hear the high-plathed time sheating the sound data."

 Establish note that if the volume control is set to the minimum, you will not hear the sound of completion.

 So the text own open decision switch in Pa control the searchings for short harm if the



- Other Precautions

 As for the SD card, use the type SDV+128° and separately, Operation is not guaranteed if an SD card of any other type is used.

 SD card, bit is lettler SD card, bit is other FRT 20 FRTY.

 When inserting the SD card, ship definition the incention of the SD card. And do not forcibly insert the SD card in the nort sick. Doing so many cause damage to the SD card and/or the product.

 Pray stantion that no forcing object enter into the card the source.

 Volume

 Volume

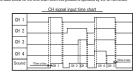
 Volume

- 6-4. Adjusting the Sound Volume
 The sound volume can be adjusted using the volume control. Use a flat-blade screwdriver with the blade thickness of 1,0mm or thinner for turning the volume control.



Within the volume is set to high, the sound may be distorted in some sounds.
In some cases the volume may not be zero even if the volume control is set to the minimum.

6-5. How to Play Sounds
When the CM terminal or the terminal CH 1-CH are short-cruited after turning on the power, the sound of the
character of the selected group is played.
Sound is played while the terminals are short-cruited.
Sound is played while the terminals are short-cruited.
When 2 cares CH terminals are short-cruited to the COM terminal, the sound of the charact with a larger number will be played.
Privily order for the charactes CH4>CH3>CH2>CH2
When the product is operated by turning on the power, titalese about 1 second to play a sound.
When the product is operated by turning on the power, titalese about 1 second to play a sound.



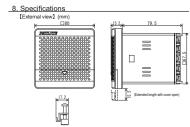
Information

Pop noise may be generated when the power is turned on or off, or at the beginning of playing a sound. But it is normal.

7. Before You Request a Repair

Symptom	Points to be checked	Coping strategies
	Is the power supplied?	Confirm the wiring.
No sound is played	Are the COM terminal and CH terminal short-circuited correctly?	Confirm the wiring.
	Is the valume control not set to the minimum?	Adjust the volume.
A sound of a different	Are the COM terminal and CH terminal short-circuited correctly?	Confirm the wiring.
channel is played	It is correctly selected with the tone color group selection switch?	Confirm the tone color group selection switch.
	Is the power supplied?	Confirm the wiring.
	Is the SD card correctly inserted?	Confirm the orientation of the insertion
	Is there a text document stored in the SD card?	Create a text document in the SD card.
it does not read SU card	Is there a text document stored in the SD card? Are the file name and the content of the text document correct?	Confirm the file name and the content of the test documen
	Is the extension of text document ".txt"?	Confirm the extension of document file name.
	Is the data not placed in a folder?	Confirm the location of the stored file.
	Is the volume control not set to the minimum?	Adjust the volume.

• If the product does not operate correctly even after it is properly installed and handled, contact a branch office or the technical support printed on the last page.



Model	BD-24□	BD-100□		
Rated Voltage	12-24V DC(*1)	100V AC / 220V AC 50/60Hz		
Voltage Range	10. 8-26. 4V DC	100V±10% AC / 220V±10% AC		
Power Consumption	4W / Standby power consumption 0.5W	5W / Standby power consumption 1.1W		
Sound Pressure Level		nel is attached/Volume adjustment is possible.		
	* The sound pressure level may be lower depending on the tone color, usage environment, and supplied voltage.			
CH Input		nput		
Input Method	Level hold input (Sound is played while COM terminal and CH terminal are short-circu			
Starting Time	peration by turning on the power: 1s or less. Operation by CH signal: 170ms or less.			
Number of Channels	4 channels			
Priority Order for the Channels				
Operating Temperature Range	-20 ~ 55 °C			
Relative Humidity	RH 85% or lower	(no condensation)		
Mounting Direction	Indoor use only: "Normal, " reverse, and " lateral direction are possible (Normal direction only in places where water may be splashed on it).	Indoor: "Normal," reverse, and "lateral direction are possible (Normal direction only in places where water may be splashed on it). Outdoor: "Normal direction only.		
Protection Level	IP54 (When the panel is mounted in normal direction; Front only)			
Resistance to Vibration	19.	6m/s ²		
Mass	205g±10%	325g±10%		

(*1) Please use the power-supply voltage with DC24V in case you use in quiet place.

Please note that we will not be held responsible for the failure or damage caused by handling the product in ways
not observing the warnings or cautions contained in this document.
 Please note also that the contents in this document may be changed for improvement without notification
in advance.



