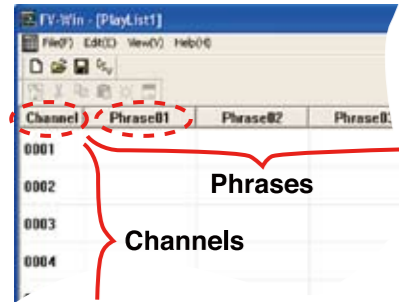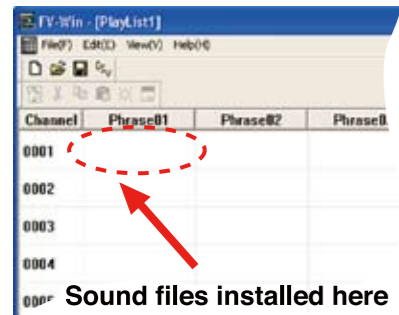# Playlist Editor

**Easy to use software to create playlists to be used with any of Patlite's MP3 capable products.**

- Playlist Editor software will be downloadable from Patlite's website, www.patlite.com
- Playlist Editor Software is compatible with Windows® XP and Windows® Vista.



### Playlist Editor Overview

1. Playlist Editor software is divided into Phrases and Channels.
2. The Channels correspond to the number of Channels on the unit to be programmed.
3. Phrases are the sound(s) to be programmed into a particular Channel.
4. Sound files are copied on to the Playlist Editor and saved.

**Phrases**

**Channels**



### Creating the Playlist

1. Start Playlist Editor Software
2. Insert Sound files in appropriate Channel & Phrase.
3. Save file as "playlist.slp" after all sound files are inserted.
4. This completes the playlist and is ready to be used to program the unit.

**Sound files installed here**

*Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

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## SDV-128P (SD Card 128MB)



The SD card does not come with any pre-installed data. Data must be added (MP3 files & Playlist) at user's expense.
Please note that not all commercially available SD cards will be compatible with Patlite products that use SD cards.

*Patlite is a member of the SD Card Association.

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# PATLITE®
### New Frontiers for Safety, Security and Comfort.

# MP3 Support Field Programmable Voice Announciators

Model LKEH-FV
Model RFV
Model WG
Model LU7-V1
Model FV-127

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⚠ CAUTION | To ensure correct use of these products, read the Instruction Manual prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.

**http://www.patlite.co.jp/int/       E-mail: overseas@patlite.co.jp**

1212A        08105(5)/5(KA)A
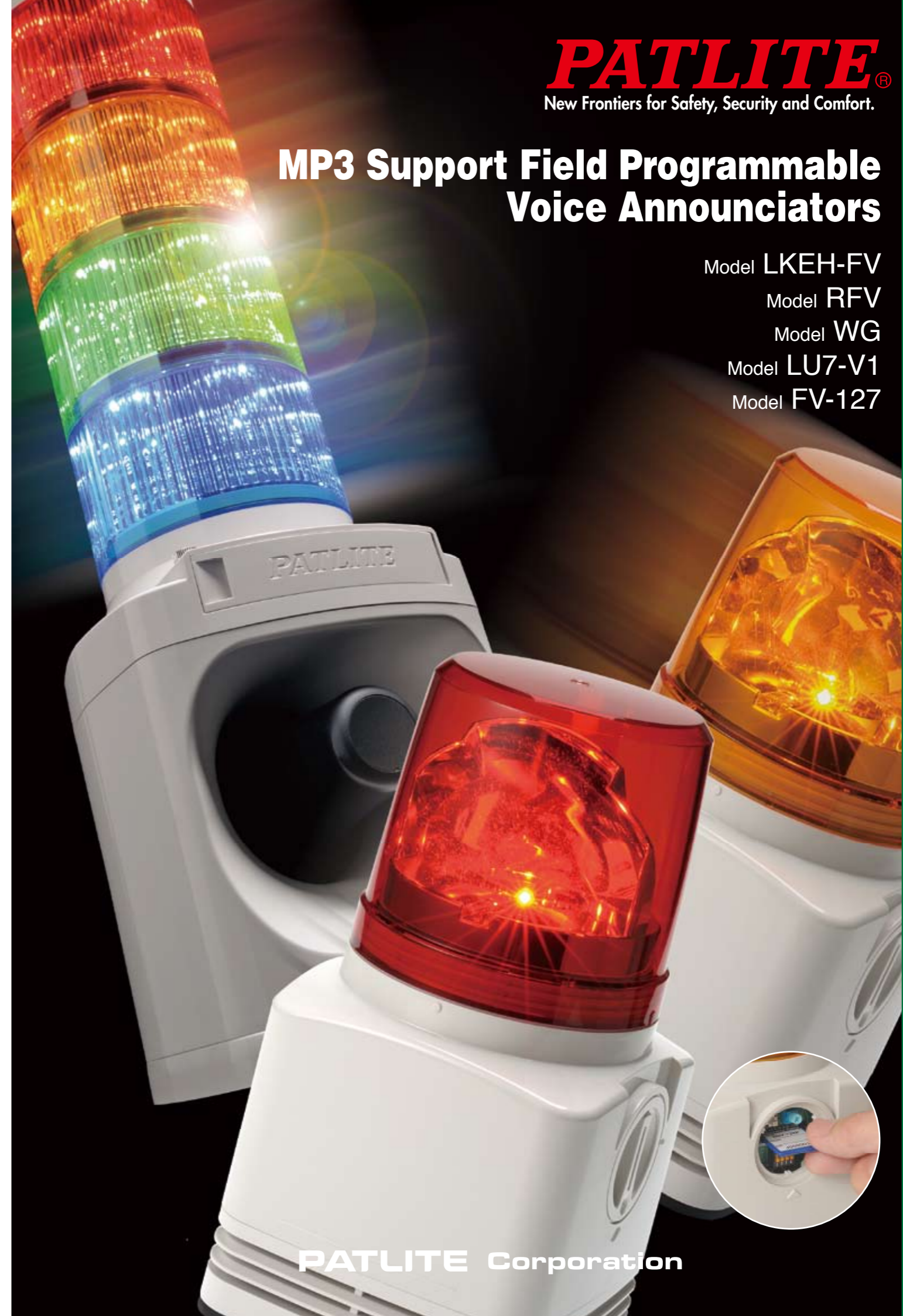
# PATLITE Corporation

www.patlite.co.jp/int/

# Model LKEH

## MP3 compatible announciator with LED  Signaling Lights

RoHS  CE  MP3 (LKEH-FV)  105dB (at 1m)  IP53  NPN Open collector  32 Sound (LKEH-F□)

24V Specification

※ Actual sound level may vary depending on sound type.

# Get the attention you need with Patlite's Field Programmable LKEH series light tower/audible alarm hybrid units.

VOICE  SOUND

**Insert SD card into a slot.**

**Ultra bright LED**

**105dB horn**

Attention
Atención
Aufmerksamkeit
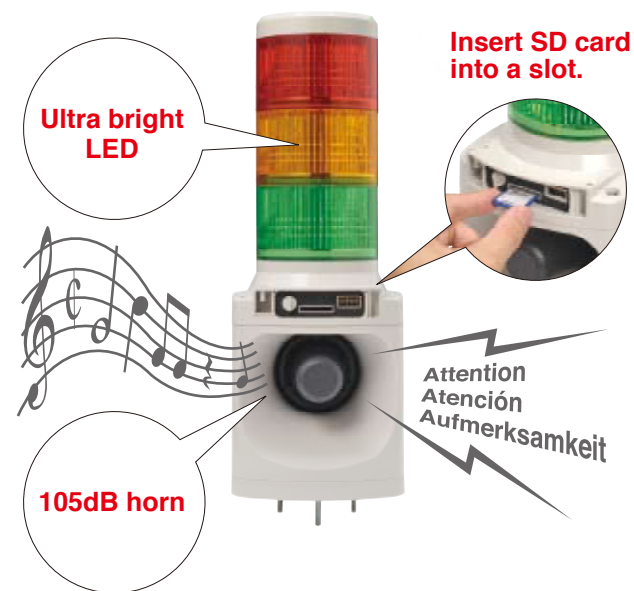
- See from great distances with our Ultra bright LED and 100mm diameter lens.
- Safe for high vibration environments with robust 2G vibration resistance design.
- Easy to control with only one common wire for both LEDs and audible signals.
- CE, RoHS, IP53, (UL, c-UL pending).
- Field programmable with SD card
  Message capacity is up to 64  seconds (64kbit/s) with 4 channels.
- Adjust the volume from 0dB (at 1m) to 105dB (at 1m) to fit various environments.
- Smooth LED lens surface.

## Optional Parts

**Wall mount bracket SZ-023**
Bracket: steel (powder coating)
Bracket cover: AES resin

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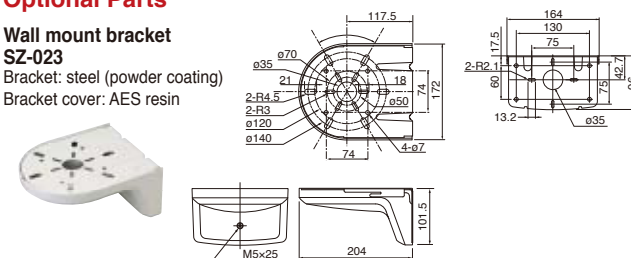
## Voice Synthesizer (LKEH-FV)

Message capacity is up to 64  seconds (64kbit/s) with 4 channels.

## 32 sounds are pre-recorded in one unit (LKEH-FA/FC/FD/FE)

32 sounds are pre-recorded in one unit. 4 sound types are available.

JASDAC  T-06B0152 / T-0710139 / T-0710140

### Type A

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Bell (clear highpitched bell) | Yelp (rapid siren) |
|---|---|---|---|
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter (rapid intermittent horn) Bell (clear highpitched bell) | Synthesized Melody Chime | Chime | Call sign |
| Fur Elise | Maiden's Prayer | Minuet | Annie Laurie |
| London Bridge is Falling Down | Holdiridia | Mary Had a Little Lamb | Camptown Races |
| Kuck kuck | Der Schmied im Walde | On the Bridge of Avignon | Daydream Believer |
| Amaryllis | Mozart Symphony No. 40 | Itsy Bitsy Spider | Ich bin ein Musikante |
| Jeux Interdits | Katuscha | Grandfather's Clock | Ave Maria |

### Type C

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Bell (clear highpitched bell) | Yelp (rapid siren) |
|---|---|---|---|
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter (rapid intermittent horn) Bell (clear highpitched bell) | Synthesized Melody Chime | Chime | Call sign |
| Can't Take My Eyes off of You | Top of the World | The Entertainer | Amazing Grace |
| Amairono Kamino Otome | Les Champs-Elysees | Canon | Rara Sanshain |
| Uchuusenkan Yamato | Oshiete | Makenaide | Gonna Fly Now (Theme for "Rocky") |
| I Don't Want to Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi |
| Gattsudaze | Odoru Ponpokorin | Imasugu Kisu Mi | Truth |

### Type D

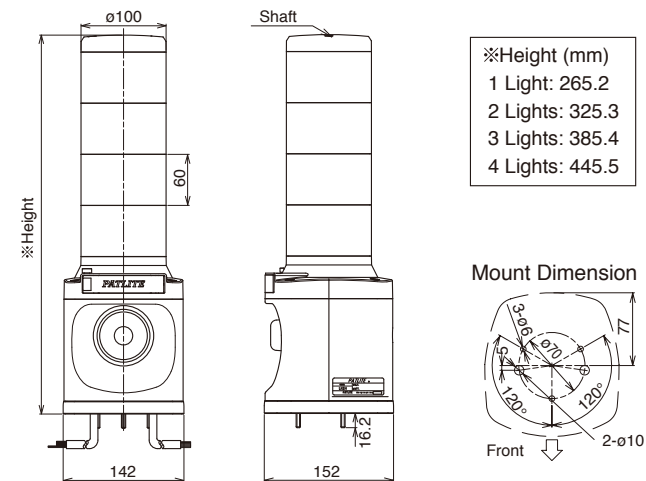| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Bell (clear highpitched bell) | Yelp (rapid siren) |
|---|---|---|---|
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner | Mamotte Agetai | Chime | Call sign |
| Oribiao Kikinagara | A September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Sukii Tengoku | Iro Howaitoburendo | Happy Birthday | Hi Ho |
| I've been working on the Railroad | Bear Song | Toys Go Cha Cha Cha | Konnako Irukana |
| Wiegenlied | Rudolph the Red-nosed Reindeer | She Wore a Yellow Ribbon | Oh My Darling Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

### Type E

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Inverted Receille | Annie Laurie |
|---|---|---|---|
| Stutter (rapid intermittent horn) | Synthesized Melody Chime | Galactic Motor | London Bridge is Falling Down |
| Bell (clear highpitched bell) | Chime | Ringing Phone | Mary Had a Little Lamb |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No.40 |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria |
| Synthesized Bell | Falling Crystals | Minuet in G | Grandfather's Clock |

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## Dimensions (mm)

ø100  Shaft

60

※Height

142  152

16.2

※Height (mm)
1 Light: 265.2
2 Lights: 325.3
3 Lights: 385.4
4 Lights: 445.5

### Mount Dimension

3-ø5
ø70
120°
120°
120°
77
Front  2-ø10

## How to order

**LKEH-402FV-RYGB**

Model
Stack
Rated Voltage
02: 24V DC
10: 100V AC
20: 220V AC

Type
FV: Voice Synehesizer
FA, FC, FD, FE : 32 sounds

Color
R: Red
Y: Amber
G: Green
B: Blue
Top to bottom

---

## LKEH-FV type

| | Model | Rated Voltage | Number of stacks | Power Consumption | Voltage Range | Mass |
|---|---|---|---|---|---|---|
| | | | **60 flashes per minute** | | | |
| Voice Type | LKEH-102FV | 24V DC | 1 | 14W | 24V DC±10% | 1.8kg |
| | LKEH-202FV | | 2 | 16W | | 2.0kg |
| | LKEH-302FV | | 3 | 18W | | 2.2kg |
| | LKEH-402FV | | 4 | 20W | | 2.4kg |
| | LKEH-110FV | 100V AC | 1 | 17W | 100V AC±10% | 2.5kg |
| | LKEH-210FV | | 2 | 20W | | 2.7kg |
| | LKEH-310FV | | 3 | 23W | | 2.9kg |
| | LKEH-410FV | | 4 | 26W | | 3.1kg |
| | LKEH-120FV | 220V AC | 1 | 17W | 220V AC±10% | 2.5kg |
| | LKEH-220FV | | 2 | 20W | | 2.7kg |
| | LKEH-320FV | | 3 | 23W | | 2.9kg |
| | LKEH-420FV | | 4 | 26W | | 3.1kg |

## LKEH-F□ type

| | Model | Rated Voltage | Number of stacks | Power Consumption | Voltage Range | Mass |
|---|---|---|---|---|---|---|
| | | | **60 flashes per minute** | | | |
| Sound Type | LKEH-102FA/FC/FD/FE | 24V DC | 1 | 10.6W | 24V DC±10% | 1.8kg |
| | LKEH-202FA/FC/FD/FE | | 2 | 12.4W | | 2.0kg |
| | LKEH-302FA/FC/FD/FE | | 3 | 14.2W | | 2.2kg |
| | LKEH-402FA/FC/FD/FE | | 4 | 16W | | 2.4kg |
| | LKEH-110FA/FC/FD/FE | 100V AC | 1 | 17W | 100V AC±10% | 2.5kg |
| | LKEH-210FA/FC/FD/FE | | 2 | 20W | | 2.7kg |
| | LKEH-310FA/FC/FD/FE | | 3 | 23W | | 2.9kg |
| | LKEH-410FA/FC/FD/FE | | 4 | 26W | | 3.1kg |
| | LKEH-120FA/FC/FD/FE | 220V AC | 1 | 17W | 220V AC±10% | 2.5kg |
| | LKEH-220FA/FC/FD/FE | | 2 | 20W | | 2.7kg |
| | LKEH-320FA/FC/FD/FE | | 3 | 23W | | 2.9kg |
| | LKEH-420FA/FC/FD/FE | | 4 | 26W | | 3.1kg |

# Model RFV

## MP3 compatible announciator with LED Signaling Lights

RoHS  CE  MP3  95dB (at 1m)[1]  IP54  NPN Open collector

24V Specification

※1.Actual sound level may vary depending on sound type.
※2.front direction only

## The RFV series is a combination LED rotating beacon with a 4 channels, MP3 programmable, sound unit.

VOICE

Easily change sound files by opening the cover on the side, installing the SD card (sold separately) and tuning on the unit.
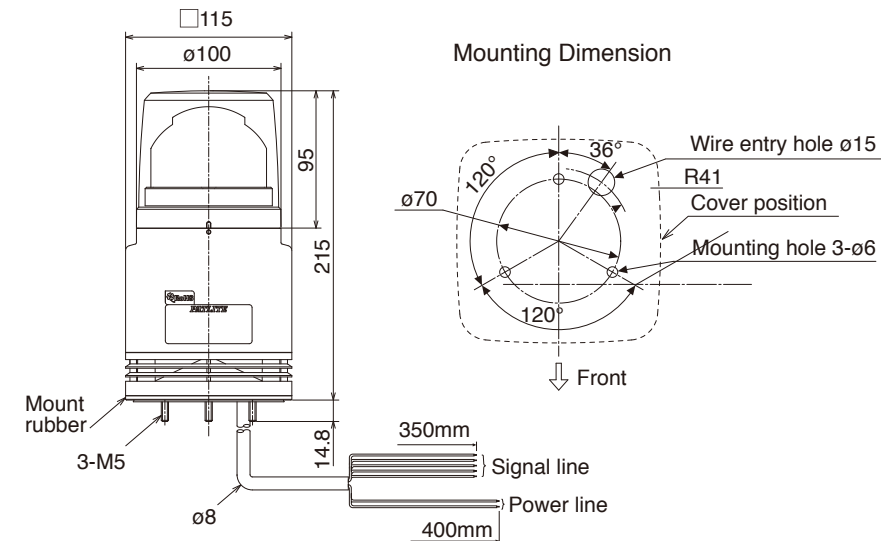
**Side Access**

The Volume Reducing Function reduces the volume by about 15dB (at 1 m). This function can be more effectively used with a timer of sensor.

**Volume Reducing Function**

Attention
Atención
Aufmerksamkeit
P

• Safe for high vibration environments with robust 4.5G vibration resistance design.
• Unique features
  1. Reduce maintenance and increase reliability with Patlite's Long-life LEDs that last over 5 years with 24/7 continuous operation.
  2. High visibility with Special Optical Reflector.
  3. Special Gear Drive Motor increases reliability because it will still operate even after 10 years of no operation.
  4. Tight Locking Dome will stay on even in high vibration situations.
• CE, RoHS, IP54, (UL, c-UL pending)
• Field programmable with SD card
  Message capacity is up to 64 seconds (64kbit/s) with 4 channels.
• Adjust the volume from 0dB (at 1m) to 95dB (at 1m) to fit various environments.

## Dimensions (mm)

□115
ø100
95
215
14.8
Mount rubber
3-M5
ø8

Mounting Dimension
120°  36°
ø70
R41
120°
Wire entry hole ø15
Cover position
Mounting hole 3-ø6
Front

350mm  Signal line
400mm  Power line

## How to order

**RFV-100F-R**

Rated Voltage
24: 24V DC
100: 100V AC
220: 220V AC

Color
R: Red
Y: Amber

## RFV type

| Model | Rated Voltage | Voltage Range | Power Consumption | Flashes per Minute | Volume | Audio File Type | Operating Temperature Range | Message Time | Channel | Protection Rating | Mass |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RFV-24F | 24V DC | 24V DC±10% | Max. 18W | 115±15 | Max. 95dB at 1m※ | MPEG1-Audio Layer Ⅲ (mp3) bitrate: 64kbit/s, Fs=44.1kHz | -10˚C~+50˚C (Humidity 85% or less) | Max. 64 | 4 bit or 15 Binary | IP54 (when flush mount, front direction only) | 1.0kg |
| RFV-100F | 100V AC | 100V AC±10% | Max. 16W | | | | | | | | 1.2kg |
| RFV-220F | 220V AC | 220V AC±10% | | | | | | | | | |

Actual sound level will depend on sound type and operating conditions.
※ It is very difficult to synchronize the play back of the same sound from different units.

## Mounting style

### Side mount bracket on wall

100
158
120°
ø70
bracket
110
45
50
M5×8
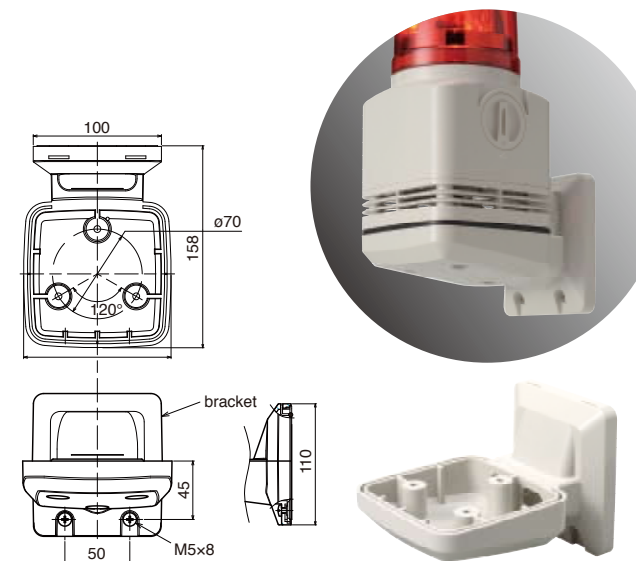
**Options
RF-001 : Side mount bracket**

### Hang from ceiling

M4×10
bracket
5.1
27
41  35  36°
ø70
120°
R10
6-ø5.5
□116

**Options
RF-002 : Ceiling bracket**

# Model WG

## MP3 compatible announciator with LED Signaling Lights
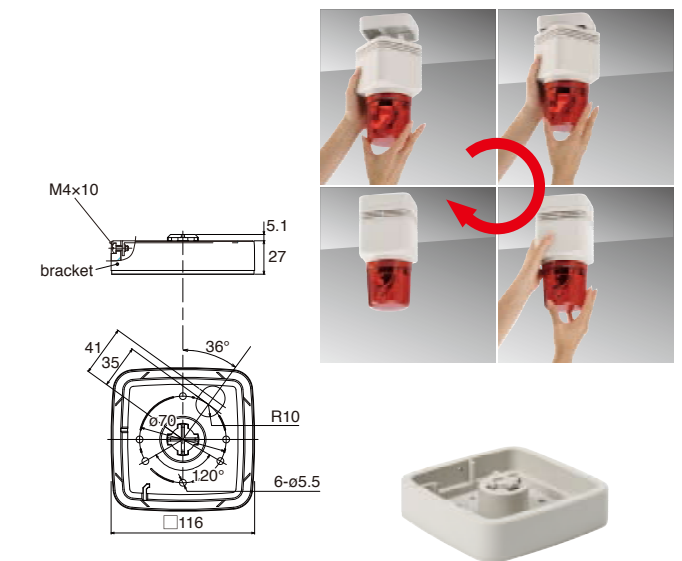
**90dB (at 1m)** | **NPN Open collector** | **Wall installation** | **3 messages** | **32 seconds** | **MP3**
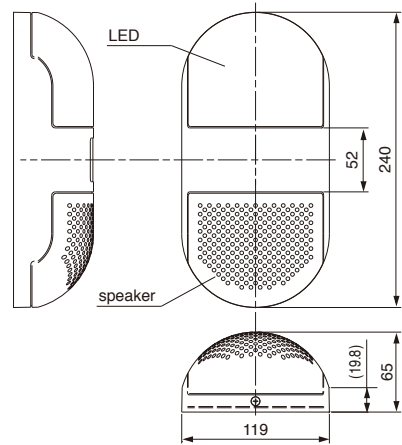
※Actual sound level may vary depending on sound type.

The WG series is wall mountable and will easily blend into any environment such as hospitals, airports and office buildings, providing audible messages and visual signal with LED.

WG-03KT    WG-03KT-R

- Colors available: red, yellow, green, blue and clear/white.
- Alert operators or the public with voice messages or chimes or any other sound and flashing LED light.
- Effective for audio/visual guidance at public facilities such as train platforms, bathrooms, etc.
- Record your own messages using Patlite's Playlist Editor, and MP3 sound files or use Patlite's custom recording services.
- High quality sound with a max. output of 90dB (at 1m) provide clear messages, even in a crowd.
- 3 message channels for various applications. One channel has priority for emergency/security purposes.
- Has 3 messages for a total of 32 seconds.
- NPN open collector transistor compatible
- 12V DC

## Dimensions (mm)

LED
52
240
speaker
(19.8)
65
119

## How to order

### WG-03 B T-R

Model

Messag Channels
03=3

Rated Voltage
B: 12V AC
M2: 90-250V AC

Color
R: Red
Y: Amber
G: Green
B: Blue
C: Clear/White

Memory
T: 2Mbit

## WG type

| Model | WG-03BT | WG-03M2T |
|---|---|---|
| Rated Voltage | 12V DC (No Poiarity) | 90-250V AC |
| Power Consumption: Standby | 1Watt | 1Watt |
| Power Consumption: Operation | 6Watt Max | 6Watt Max |
| Lens Colors Available | None, Red, Amber, Green, Blue | None, Red, Amber, Green, Blue |
| Operating Temperature Range | -10°C~+60°C | -10°C~+60°C |
| Volume | 90dB at 1m (Adj.from zero) | 90dB at 1m (Adj.from zero) |
| Message Memory Capacity | 32 seconds @ 64kbits/sec | 32 seconds @ 64kbits/sec |
| No. of Messages (Inputs) | 3 | 3 |
| Protection Rating | IP20 | IP20 |
| Illuminance | 300ix at 50cm | 300ix at 50cm |
| Mounting Direction | Horizontal, Vertical (Up or Down) | Horizontal, Vertical (Up or Down) |
| Vibration Resistance | 19.6m/s² | 19.6m/s² |
| Weight | 600g | 600g |

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# Model LU7-V1

## Voice and Sound Module (Innovative LED Modular Style Signal Tower)

**MP3** | **LEAD Free** | **CE** | **cULus** | **IP65 Environment Protection (Indoor only)**

Unique MP3 programmable Sound Module for the LU7 series modular signal tower.

- Adjust the volume from 0dB to 80dB (at 1m, alarm type) to suit various environments.
- High quality MP3 based sound module replays up to 4 alarms or messages with 32 seconds of total program time.
- Playback sound selected by the position of internal jumper pin.
- CE / UL compliant.
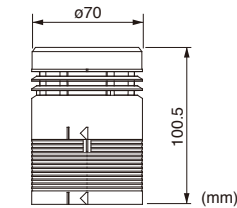- Additional flexibility by creating unique sounds or messages for varied applications.

LU7-V1

### Stackable audible alarm

· Available for all LU7 base units.
· Easily mounted at the top of the light stack.

### Selectable playback sound

· The jumper position determines the sound

ø70
100.5
(mm)

Head cover is supplied with the base unit.

| Model | Type | Rated Voltage | Power Consumption | Weight |
|---|---|---|---|---|
| LU7-V1 | Voice Annunciator | 24V DC | 3.5W | 0.17kg |

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# Model FV-127

## MP3 Voice Synthesizer

**Open collector** | **4W** | **127 messages** | **240 minutes** | **MP3** | **For Playlist edit**

THe FV-127 Voice Syuthesizer is a Programmable Multi-Message Controller with maximun.
240 minutes* of high quality sound, enhanced for voice and melody for composing original audible messages.

* Image

Comming soon

- Clear sound quality using MP3 technology.
- SD card makes it easy to add and change data.
- Built-in digital amplifier produces a total output of 4W.
- Easily align to easily sequence or easily synchronize.
- * Use of SD card only: 128MB (in case of bit rate 65kbit/s)

## FV type

| Model | FV-127J(Enclosed Unit) | FV-127JP(Circuit Board Only) |
|---|---|---|
| Rated Voltage | 24V DC | |
| Input Voltage Range | 19-24V DC | |
| Power Consumption:Operation | 15 Watts | |
| Operating Temperature Range | -10°C~+50°C | |
| Relative Humidity | 85% (No Condensation) | |
| Speaker Capacity | 5 Watts 8 ohms (Volume adjustable from zero) | |
| Mounting Location | Indoors Only | |
| Vibration Resistance | 45m/s² | |
| Weight | 0.00kg | 160g±10% |
| Audio Format | MPEG1-Audio Layer III (MP3) | |
| No. of Messages | Direct Input Mode: Up to 7; Binary Input Mode: Up to 127 | |

## How to order

### FV-127JP

Model
J: 24V DC

Nothing: Enclosed Unit
P: Circuit Board Only

# Model BK

## Audible Alarm

RoHS | CE | 95dB (at 1m)※ 24V only | IP54 | NPN Open collector | 32 seconds

※ Actual sound level may vary depending on sound type.

**The BK series has melody, chime and alarm capability, variable audible control, and a compact but loud speaker.**

- Maximum output level of 95dB at 1m is suitable for use in a noisy factory.
- 32 sounds are pre-recorded in one unit which can be used for various applications.
- Volume output and sound groups can be selected by rotary switches stored behind the front panel for easy operation even after installation.
- Select one sound group from A to P to playback 8 pre-recorded sounds.
- A new sound group can be created from the 32 sounds by using an optional memory card (Sold separately).
- RoHS compliant.
- Use the I-O switch to check the operation or adjust sound volume.
- 8 channels (bit input), 32 channels (binary input)

**Available by Special Order**
- Binary input controlled 15 sound playback type (C0090).

### Dimensions (mm)

□120
109.8
17.2
62.8
(148)
□110

Mount Dimension
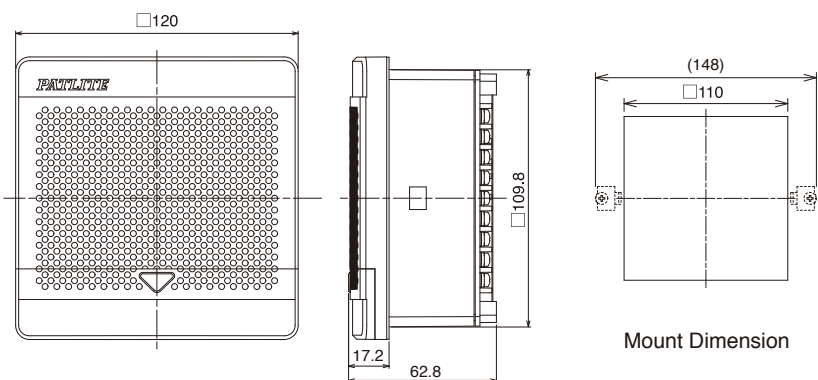
### How to order

**BK-24A-J**

Model — Color
- J: Light Gray
- K: Dark Gray

Rated Voltage
- 24: 12-24V DC
- 100: 100V AC
- 220: 220V AC

Type of Sound
- A: Type A
- C: Type C
- D: Type D
- E: Type E

### BK type

| Model | RatedVoltage | Voltage Range | Power Consumption | Volume | Operating Temperature Range | Channel | Protection Rating | Mass |
|---|---|---|---|---|---|---|---|---|
| BK-24 | 12-24V DC | 10.8V~26.4V DC | 12W | Max. 95dB at 1m* | -20˚C~+50˚C (Humidity 85% or less) | 8 bit or 32 Binary | IP54 (when flush mount, front direction only) | 350g±10% |
| BK-100 | 100 AC | 100V AC±10% | 10W | | | | | 530g±10% |
| BK-220 | 220V AC | 220V AC±10% | 11W | | | | | 530g±10% |

*Actual sound level will depend on sound type and operating conditions.

---

# Model BD

## Audible Alarm

RoHS | CE | c UL us Pending | 90dB (at 1m) 24V only | 32 seconds | 80 | IP54

**The BD series has a melody, chime and alarm capability, variable audible control, and a compact but loud speaker.**

- Maximum output level of 90dB at 1m is suitable for use in a noisy factory.
- 32 sounds are pre-recorded in one unit which can be used for various applications.
- Sound output level and sound group can be selected by rotary switches stored behind the front panel for easier operation even after installation.
- Select one sound group from A to P to playback 4 pre-recorded sounds.
- A new sound group can be created from the 32 sounds by using an optional memory card (Sold separately).
- RoHS compliant.

**Available by Special Order**
- Binary input controlled 15 sound playback type (C0090).

### Dimensions (mm)

□80
15.2 79.5
67.5
15.5
17.2
Mounting hardware
Movable range of front cover
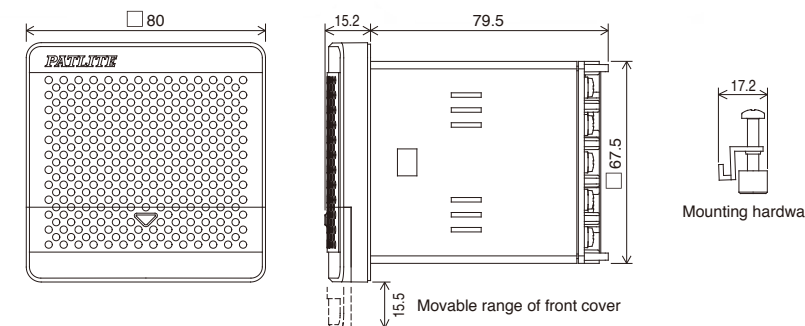
### How to order

**BD-24A-J**

Model — Color
- J: Light Gray
- K: Dark Gray

Rated Voltage
- 24: 12-24V DC
- 100: 100V/220V AC

Type of Sound
- A: Type A
- C: Type C
- D: Type D

### BD type

| Model | RatedVoltage | Voltage Range | Power Consumption | Volume | Operating Temperature Range | Input System | Channel | Protection Rating | Mass |
|---|---|---|---|---|---|---|---|---|---|
| BD-24 | 12-24V DC | 10.8V~26.4V DC | 4W | Max. 90dB at 1m* | -20˚C~+55˚C (Humidity 85% or less) | 1 bit input | 4 | IP54 (when flush mount, front direction only) | 205g±10% |
| BD-100 | 100/220V AC | 100V AC±10% / 220V AC±10% | 5W | | | | | | 325g±10% |

*Actual sound level will depend on sound type and operating conditions.

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## 32 sounds are pre-recorded in one unit

32 sounds are pre-recorded in one unit. 4 sound types are available.

JASRAC
T-06B0152
T-0710139
T-0710140

**BK-A/BD-A**

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Bell (clear highpitched bell) | Yelp (rapid siren) |
|---|---|---|---|
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter (rapid intermittent horn) Bell (clear highpitched bell) | Synthesized Melody Chime | Chime | Call sign |
| Fur Elise | Maiden's Prayer | Minuet | Annie Laurie |
| London Bridge is Falling Down | Holdiridia | Mary Had a Little Lamb | Camptown Races |
| Kuck kuck | Der Schmied im Walde | On the Bridge of Avignon | Daydream Believer |
| Amaryllis | Mozart Symphony No. 40 | Itsy Bitsy Spider | Ich bin ein Musikante |
| Jeux Interdits | Katuscha | Grandfather's Clock | Ave Maria |

**BK-C/BD-C**

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Bell (clear highpitched bell) | Yelp (rapid siren) |
|---|---|---|---|
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter (rapid intermittent horn) Bell (clear highpitched bell) | Synthesized Melody Chime | Chime | Call sign |
| Can't Take My Eyes off of You | Top of the World | The Entertainer | Amazing Grace |
| Amairono Kamino Otome | Les Champs-Elysees | Canon | Rara Sanshain |
| Uchuusenkan Yamato | Oshiete | Makenaide | Gomra Fly Now (Theme for "Rocky") |
| I Don't Want to Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi |
| Gattsudaze | Odoru Ponpokorin | Imasugu Kisu Mi | Truth |

**BK-D/BD-D**

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Bell (clear highpitched bell) | Yelp (rapid siren) |
|---|---|---|---|
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner | Mamotte Agetai | Chime | Call sign |
| Oribiao Kikinagara | A September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Suki Tengoku | Iro Howaitoburendo | Happy Birthday | Hi Ho |
| Five been working on the Railroad | Bear Song | Toys Go Cha Cha Cha | Konnako Irukana |
| Wiegenlied | Rudolph the Red-nosed Reindeer | She Wore a Yellow Ribbon | Oh My Darling Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

**BK-E/BD-E**

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Inverted Receille | Annie Laurie |
|---|---|---|---|
| Stutter (rapid intermittent horn) | Synthesized Melody Chime | Galactic Motor | London Bridge is Falling Down |
| Bell (clear highpitched bell) | Chime | Ringing Phone | Mary Had a Little Lamb |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No.40 |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria |
| Synthesized Bell | Falling Crystals | Minuet in G | Grandfather's Clock |

# EWH/EWHS/EW
**Signal Horn**

ALARM | 105dB (at 1m)[*1] | 32 seconds[*2] | IP65[*3] | NPN Open collector

※1.EW-TB: 103dB at 1m  ※2.EW-TB: 4 channels
※3.IP65 available by special order

## Original wide horn featuring clear and high volume up to 105dB at 1m, designed for use in noisy environments.

· 32 sounds are pre-recorded in one unit (EWH/EWHS type).
· For enhanced durability and safety in the work environment.
· Built-in Alarm: Adjustable audible sound up to 105dB at 1m with volume control.
· Installation: Indoors—upright, inverted, sideways; Outdoors—upright only. (Do not install the horn facing upward).
· Easy Installation: With anticorrosive stainless steel mounting bracket.
· NPN Compatible: 24V type only (EWH series only).
· CE Compliant: 24V AC/DC only.
· Available: PNP as special order.

**Available by Special Order**
· PNP open collector type.

SOUND

### 32 sounds are pre-recorded in one unit (EWH, EWHS)

32 sounds are pre-recorded in one unit. 4 sound types are available.

T-06B0152
T-0710139
T-0710140

**Type A**

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Bell (clear highpitched bell) | Yelp (rapid siren) |
|---|---|---|---|
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter (rapid intermittent horn) Bell (clear highpitched bell) | Synthesized Melody Chime | Chime | Call sign |
| Fur Elise | Maiden's Prayer | Minuet | Annie Laurie |
| London Bridge is Falling Down | Holdiridia | Mary Had a Little Lamb | Camptown Races |
| Kuck kuck | Der Schmied im Walde | On the Bridge of Avignon | Daydream Believer |
| Amaryllis | Mozart Symphony No. 40 | Itsy Bitsy Spider | Ich bin ein Musikante |
| Jeux Interdits | Katuscha | Grandfather's Clock | Ave Maria |

**Type C**

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Bell (clear highpitched bell) | Yelp (rapid siren) |
|---|---|---|---|
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter (rapid intermittent horn) Bell (clear highpitched bell) | Synthesized Melody Chime | Chime | Call sign |
| Can't Take My Eyes off of You | Top of the World | The Entertainer | Amazing Grace |
| Amairono Kamino Otome | Les Champs-Elysees | Canon | Rara Sanshain |
| Uchuusenkan Yamato | Oshiete | Makenaide | Gonna Fly Now (Theme for "Rocky") |
| I Don't Want to Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi |
| Gattsudaze | Odoru Ponpokorin | Imasugu Kisu Mi | Truth |

**Type D**

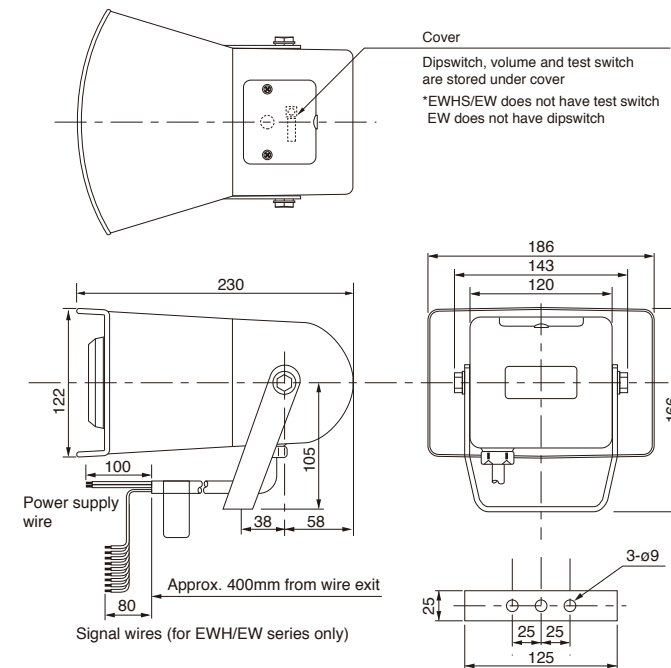| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Bell (clear highpitched bell) | Yelp (rapid siren) |
|---|---|---|---|
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner | Mamotte Agetai | Chime | Call sign |
| Oribiao Kikinagara | A September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Sukii Tengoku | Iro Howaitoburendo | Happy Birthday | Hi Ho |
| I've been working on the Railroad | Bear Song | Toys Go Cha Cha Cha | Konnako Irukana |
| Wiegenlied | Rudolph the Red-nosed Reindeer | She Wore a Yellow Ribbon | Oh My Darling Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

**Type E**

| Beep (slow intermittent horn) | Stutter (rapid intermittent horn) | Inverted Receille | Annie Laurie |
|---|---|---|---|
| Stutter (rapid intermittent horn) | Synthesized Melody Chime | Galactic Motor | London Bridge is Falling Down |
| Bell (clear highpitched bell) | Chime | Ringing Phone | Mary Had a Little Lamb |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No.40 |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria |
| Synthesized Bell | Falling Crystals | Minuet in G | Grandfather's Clock |

### 4 alarms (EW-TB)

| ch | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| EW-TB | Stutter | Chime | Beep | Yelp |

### Dimensions (mm)

Cover
Dipswitch, volume and test switch are stored under cover
*EWHS/EW does not have test switch
 EW does not have dipswitch

230
186
143
120
122
100
38  58
105
166
80
Power supply wire
Approx. 400mm from wire exit
Signal wires (for EWH/EW series only)
3-ø9
25
25  25
125

### How to order

**EWH-24A-J**

Model
EWH: 8 channels/bit input
         32 channels/binary input
EWHS: 1 channel

Rated Voltage
24: 12/24V AC/DC
48: 48V DC
100: 100V AC
200: 200V AC

Body Color
J: Ivory White
Y: Yellow
R : Red

Sound type
A: Type A
C: Type C
D: Type D

**EW-24TB-J**

Rated Voltage
24: 24V AC/DC
100: 100V AC
220: 220V AC

Body Color
J: Ivory White
Y: Yellow
R: Red

**Test switch** (for EWH series only)
Test switch is stored under cover.  Switch can be used to check the operation or adjust sound volume.

### EWH / EWHS / EW type

| Model | | Rated Voltage | Voltage Range | Power Consumption | Volume | Outer Contact Capacity | Operating Temperature Range | Auxiliary Input | Channel | Protection | Mass |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EWH | EWH-24 | 12/24V AC/DC | 8V~28V AC/9V~35V DC | 8W | Max. 105dB at 1m | EW: More than 10mA  EWH/EWHS: More than 5A | -20°C~+60°C Humidity 85% or less. | EWH: Voltage free contact 8/1bit 32/binary | 8/1bit or 32/binary | IP53 IP65* | 1.2kg |
| | EWH-48 | 48V DC | 35V~60V DC | 10W | | | | | | | |
| | EWH-100 | 100V AC | 90V~132V AC | 12W | | | | | | | 1.4kg |
| | EWH-200 | 200V AC | 180V~260V AC | 13W | | | | | | | |
| EWHS | EWHS-24 | 12/24V AC/DC | 8V~28V AC/9V~35V DC | 8W | | | | EWHS: Voltage contact | 1 | | 1.2kg |
| | EWHS-48 | 48V DC | 35V~60V DC | 10W | | | | | | | |
| | EWHS-100 | 100V AC | 90V~132V AC | 12W | | | | | | | 1.4kg |
| | EWHS-200 | 200V AC | 180V~260V AC | 13W | | | | | | | |
| EW | EW-24TB | 24V AC/DC | 20V~26V AC/20V~28V DC | 5.5W | Max. 103dB at 1m | | | Voltage free contact 4/1bit | 4 | | 1.2kg |
| | EW-100TB | 100V AC | 90V~110V AC | 5W | | | | | | | |
| | EW-220TB | 220V AC | 180V~240V AC | 5W | | | | | | | 1.4kg |

* By special order