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GENERAL CATALOG





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New Products



BSV-L













87_{dB at 1m}

15 Channels (Binary)

520 Seconds

IP54

□ 75

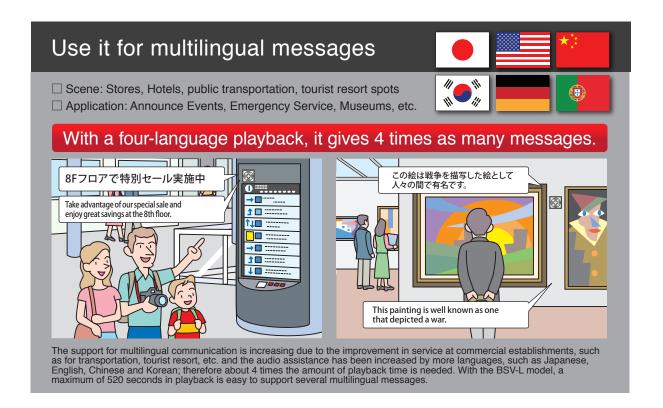
NPN/PNP Open-collector

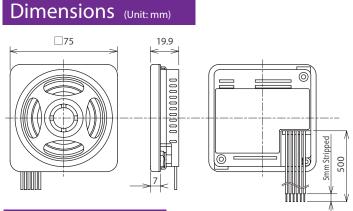


Now more playback time for longer, or more messages.

FEATURES

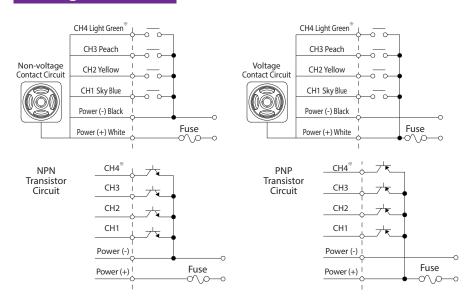
- Sound reduction
- Use the SD card to change messages while out in the field or set up modes for the right application.
- It complies with Europe's environment-friendly RoHS Directivem, conforms to the CE requirements and UL Listed.
- Can be used with transistor driven inputs. (Either NPN or PNP)
- · A compact design with only a thickness of 19.9mm.
- Two installation choices of panel or wall mount with a Protection Rating of IP54 (Only for front panel mount attachment).
- The volume control is accessible from the front with maximum output of 87dB (at 1m).





Mounting Dimensional Drawing Panel Mount Mounting Dimensions Wall Mount Mounting Dimensions Wounting Dimensions (Product Front View) □ 57.5±0.2 □ 57.5±0.2 Dimensions are IEC-61554 (DIN-43700) compliant

Wiring



Specifications and How to Order

■ 520sec. Model

| Specifications | | | | | | | | | | | | _ |
|--|--------------------|------------------|----------------------------|----------------------|----------------------|-----------------------------------|----------------------|---|------------------------------------|-------------|----------------------------------|------------------|
| Model | Transistor Type | Rated Voltage | Operating Voltage Range | Power Consumption | Sound Level | Operating Temperature Range | Max.Playback Time | Playback Channels | Protection Rating | Mass | Front Cover Color | Recorded Data |
| BSV-24NLM-W/D | | | | | | | | | | | Off white (-W) Dark Gray (-D) | Voice |
| BSV-24NLM-S | _ NPN | | | | | | | | | | Silver (-S) | Voice |
| BSV-24NL-W/D | Transistor | | | | | | | 4 (Bit Input) 15 (Binary Input) | IP54 | | Off white (-W) Dark Gray (-D) | Alarm |
| BSV-24NL-S | | DC | DC10.8V | 7 3.5W | Max. 87dB (at 1m) | -10°C to +50°C | 520sec. | | (Only for Panel Mount in the | 100g | Silver (-S) | / ucdilli |
| BSV-24PLM-W/D | | 12-24V | 26.4V | 3.500 | 1kHz Sine Wave | (RH 85% or less) | 520sec. | Function, the inputs become: | Upright Position) In accordance | ±10% | Off white (-W) Dark Gray (-D) | - Voice |
| BSV-24PLM-S | _ PNP | | | | | | | 3 (Bit Input) with 7 (Binary Input) IEC 60529 | | Silver (-S) | 70.00 | |
| BSV-24PL-W/D | Transistor | | | | | | | | | | Off white (-W) Dark Gray (-D) | Alarm |
| BSV-24PL-S | | | | | | | | | | | Silver (-S) | Alaitti |
| BSV-24 ① Transistor Type N: NPN Transistor P: PNP Transistor P: PNP Transistor Signal (2) Playback Time L: 520 sec. Blank: None (15 Alarm Sounds) M: Pre-recorded Messages D: Dark Gray S: Silver | | | | | | | | | | | | |



With the built-in SD card slot, MP3 data rewriting can be done with an SD card. In addition, rewriting or editing MP3 data files is possible with or without the exclusive PATLITE Playlist Editor 2 Application software.

Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- $\,>\,$ The SD Card does not contain any data.

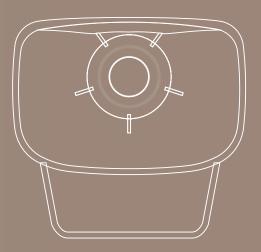




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Alarm Products



BM

Signal Horn

CE (AC/DC 24V Only)

90dB at 1m (BM-H Type)

2 Channels

P34 (BM-D Front Only)

Ф30

NPN/PNP **Open-collector**



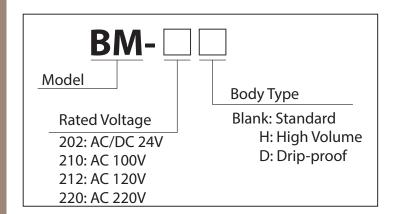


Compact Signal Horn designed to integrate with control panel, switchboard and other production equipment applications.

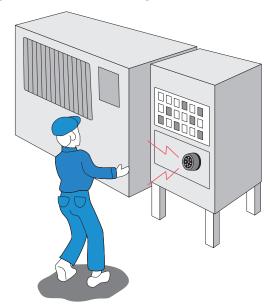
FEATURES

- Built-in Alarm with an audible sound of up to 90dB (at 1m*1).
- · Has two selectable alarm sound patterns.
- Three Types to choose from; Standard (BM), High Volume (BM-H), Drip-proof (BM-D)
- Body is compact and lightweight (100g).
- The 24V type is compatible with NPN and PNP inputs.
- · Has the CE mark and conforms to the requirements for the EC directive. (For AC/DC 24V only.)
- *1 Model BM-H: 90dB (at 1m); Model BM: 85dB (at 1m); Model BM-D: 80dB (at 1m)

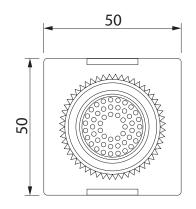
How to Order

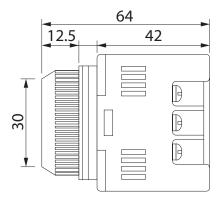


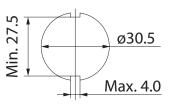
Application Example



Dimensions (Unit: mm)



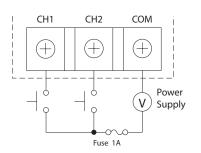




Maximum Panel Thickness: 7

Wiring

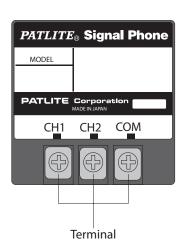
Terminal Bus Input



• Channel Priority

CH1 > Ch2 CH1 has priority when CH2 and CH1 are activated simultaneously

Rear View



External Contact Capacity: No less than 100mA

Auxiliary Input: Voltage Contact

Input Channels: 2

Specifications

| Туре | Model | Rated Voltage | Voltage Range | Power Consumption | Max. Volume (at 1m) | Operating Temperature Range | Protection Rating | Mass |
|-------------|---|------------------|---------------|----------------------|------------------------|-----------------------------------|----------------------|------|
| | BM -202 | AC/DC 24V | AC/DC 22V-26V | 0.4W | 80dB | | | |
| Standard | BM -210 | AC 100V | AC 90V-110V | 2.5W | 85dB | -10°C - +60°C (RH 85% or less) | IP30 | 100g |
| | BM -220 | AC 220V | AC 200V-240V | 3.5W | 820B | | | |
| | BM -202H | AC/DC 24V | AC/DC 22V-26V | 0.4W | 85dB | | | |
| High Volume | BM -210H | AC 100V | AC 90V-110V | 2.5W | | | | |
| High volume | BM -212H | AC 120V | AC 108V-132V | 2.5 VV | 90dB | | | |
| | BM -220H | AC 220V | AC 200V-240V | 3.5W | | | | |
| | BM -202D | AC/DC 24V | AC/DC 22V-26V | 0.4W | 75dB | | IP34 | |
| Drip-proof | BM -210D | AC 100V | AC 90V-110V | 90V-110V 2.5W | 90dB | | | |
| | BM -220D AC 220V AC 200V-240V 3.5W 80dB | | | | | | | |



Audible Alarm







90dB at 1m

4 Channels / 32 Sounds

IP54

□80

NPN Open<u>-collector</u>



The BD Series can play melodies, chimes and alarms with variable audible control and a compact, but loud speaker.

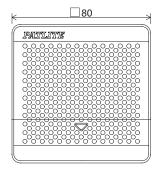
FEATURES

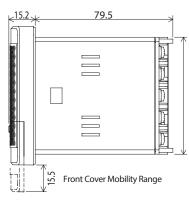
- Maximum output level of 90dB (at 1m) is suitable for use in a noisy factory.
- 32 pre-recorded sounds in one unit to be used for various applications.
- Sound output level and sound group can be selected by rotary switches stored behind the front panel for easier operation, even after installation.
- Select a sound group 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).
- · Compliant with the RoHS directive
- Has the CE mark and conforms to the requirements (for 12V/24V type) for the EC directive.
- Is a UL recognized component (File No. £24210).

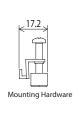
AVAILABLE BY SPECIAL ORDER

- Binary input controlled 15 sound playback model.
- · PNP open collector transistor type.

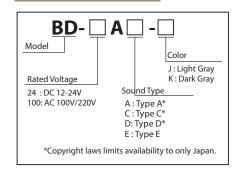
Dimensions (Unit: mm)



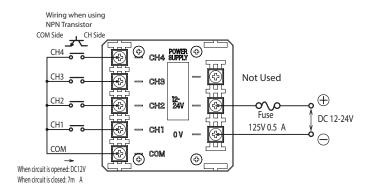


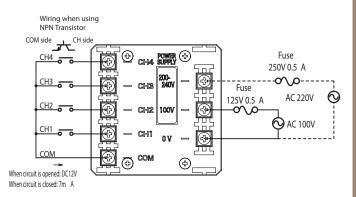


How to Order









Melody List

| Туре А | | | (Japan Only) |
|-------------------------------|------------------------------|--------------------------|-----------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell | Synthesized Melody | Chime | Call Sign |
| Fur Elise | Maiden's Prayer | Bach Minuet in Gmaj | Annie Laurie |
| London Bridge is falling down | Hol-di-ri-Dia | Mary had a little Lamb | Camptown Races |
| Cuckoo Song | Village Blacksmith | On the Bridge of Avignon | Daydream Believer |
| Amaryllis | Mozart Symphony No. 40 | Quiet Lakeside | Ich bin ein Musikante |
| Spanish Romance | Katyusha | Grandfather's Clock | Ave Maria |

| Туре D | | | (Japan Only) |
|-----------------------------------|--------------------------------|--------------------------------|------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner | Mamotte Agetai | Chime | Call Sign |
| Iribiao Kikinagara | September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Sukii Tengoku | Iro White-blend | Happy Birthday | Hi Ho |
| I've been working on the Railroad | The Bear Song | Toys Go "Cha-cha-cha" | Konnako Irukana |
| Schubert's Lullaby | Rudolph the red-nosed Reindeer | She Wore a Yellow Ribbon | My Darling, Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

| Туре С | | | (Japan Only) |
|-------------------------------|------------------------------|-------------------------|------------------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Synthesized Melody | Synthesized Piano | Synthesized Bell |
| Stutter + 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 Sunshine |
| Uchuusenkan Yamamoto | Oshiete | Makenaide | Gonna Fly Now (Theme from "Rocky") |
| I don't Wanna Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi |
| Gattsudaze | Odoru Ponpokorin | Imasugu Kisu Mi | Truth |

| Type E | | | (Worldwide) |
|------------------------------|--------------------|---------------------|-------------------------------|
| Beep (slow intermittent) | Stutter + Bell | Inverted Reveille | Annie Laurie |
| Stutter (rapid intermittent) | Synthesized Melody | Galactic Motor | London Bridge is falling down |
| Bell (clear high-pitch) | 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 | Bach Minuet in Gmaj | Grandfather's Clock |

Specifications

| Model | BD-24A 🔲 - 🔲 | BD-100A 🔲 - 🔲 | |
|-----------------------------|--|------------------------------------|--|
| Rated Voltage | DC 12V - 24V | AC 100V/AC 220V (50/60Hz) | |
| Operating Voltage Range | DC 10.8V- 26.4V | AC 100V ±10%/AC 220V ±10% | |
| Operating Temperature Range | -20 ⁰ C - | +55°C | |
| Relative Humidity | 85% RH (No C | ondensation) | |
| Power Consumption | Maximum 4.0W | Maximum 5.5W | |
| Volume | Adjustable up to a maximum of 90dB (at 1m) when flushmounted (Volume may be less, depending on surrounding environment and playback so | | |
| Input Method | Bit Input | | |
| Input Signal Duration | Conti | nuous | |
| Boot-up Time | Input Voltage: 1 sec. or less Char | nnel Signal Input: 170msec or less | |
| Channels | 4 Cha | nnels | |
| Recorded Sound | 32 Melodies and | d Alarm Sounds | |
| Sound Group | 16 Patterns (A to P) | | |
| Protection Rating | IP54 (When flush-mounted, Upright direction Only) | | |
| Vibration Resistance | 19.6m/s ² | | |
| Mass (Tolerance ±10%) | 160g | 180g | |

Use of Copyrighted Material

PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C, and Type-D melody charts outside of Japan. Therefore, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. Melody charts Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.



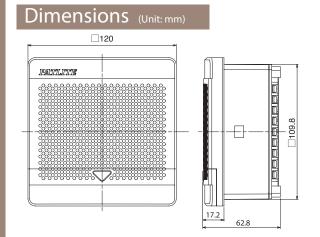
The BK Series can play melodies, chimes and alarms with variable audible control and a compact but loud speaker.

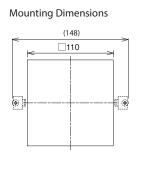
FEATURES

- 32 pre-recorded sounds in one unit to be used for various applications.
- Maximum output level of 95dB (at 1m) is suitable for use in a noisy factory.
- · Rotary switch to easily change sound groups and adjust volume output from the front panel, even after installation.
- Use bit input to select a sound group 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).
- · Compliant with the RoHS directive
- Has the CE mark and conforms to the requirements (for 12V/24V type) for the EC directive.
- Is a UL recognized component (File No. E24210).

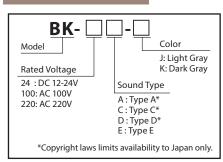
AVAILABLE BY SPECIAL ORDER

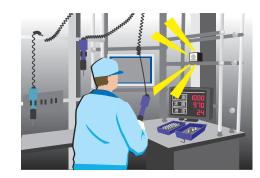
• PNP open collector transistor type.



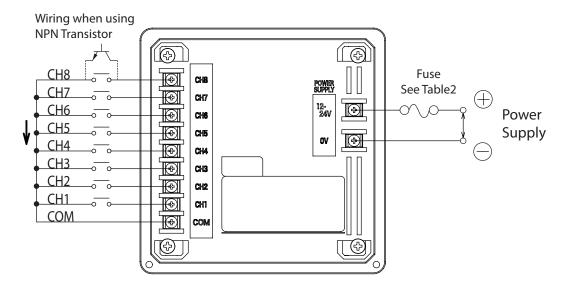


How to Order





Wiring



Melody List

| Туре А | | | (Japan Only) |
|-------------------------------|------------------------------|--------------------------|-----------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell | Synthesized Melody | Chime | Call Sign |
| Fur Elise | Maiden's Prayer | Bach Minuet in Gmaj | Annie Laurie |
| London Bridge is falling down | Hol-di-ri-Dia | Mary had a little Lamb | Camptown Races |
| Cuckoo Song | Village Blacksmith | On the Bridge of Avignon | Daydream Believer |
| Amaryllis | Mozart Symphony No. 40 | Quiet Lakeside | Ich bin ein Musikante |
| Spanish Romance | Katyusha | Grandfather's Clock | Ave Maria |

| Туре D | | | (Japan Only) |
|-----------------------------------|--------------------------------|--------------------------------|------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner | Mamotte Agetai | Chime | Call Sign |
| Iribiao Kikinagara | September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Sukii Tengoku | Iro White-blend | Happy Birthday | Hi Ho |
| I've been working on the Railroad | The Bear Song | Toys Go "Cha-cha-cha" | Konnako Irukana |
| Schubert's Lullaby | Rudolph the red-nosed Reindeer | She Wore a Yellow Ribbon | My Darling, Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

| Туре С | | | (Japan Only) |
|-------------------------------|------------------------------|-------------------------|------------------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Synthesized Melody | Synthesized Piano | Synthesized Bell |
| Stutter + 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 Sunshine |
| Uchuusenkan Yamamoto | Oshiete | Makenaide | Gonna Fly Now (Theme from "Rocky") |
| I don't Wanna Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi |
| Gattsudaze | Odoru Ponpokorin | lmasugu Kisu Mi | Truth |

| Туре Е | | | (Worldwide) |
|------------------------------|--------------------|---------------------|-------------------------------|
| Beep (slow intermittent) | Stutter + Bell | Inverted Reveille | Annie Laurie |
| Stutter (rapid intermittent) | Synthesized Melody | Galactic Motor | London Bridge is falling down |
| Bell (clear high-pitch) | 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 | Bach Minuet in Gmaj | Grandfather's Clock |

Specifications

| Model | BK-24 ☐ | BK-100 ☐ | BK-220 🔲 | |
|-----------------------------|--|---------------------------|----------------------|--|
| Rated Voltage | DC 12V-24V | AC 100V (50/60Hz) | AC 220V (50/60Hz) | |
| Operating Voltage Range | DC 10.8V- 26.4V | AC 100V ±10% | AC 220V ±10% | |
| Operating Temperature Range | | -20°C - +50°C | | |
| Relative Humidity | 8 | 35% RH (No Condensation |) | |
| Power Consumption | Maximum 12W | Maximum 10W | Maximum 11W | |
| Volume | Adjustable up to a maximum of 95dB (at 1m) when flushmounted. (Volume may be less, depending on surrounding environment and playback sounce) | | | |
| Input Method | Bit Input, Binary Input | | | |
| Input Signal Duration | | Continuous | | |
| Boot-up Time | Input Voltage: 1 sec. | or less Channel Signal In | put: 170msec or less | |
| Channels | Bit: 4 | Channels; Binary: 32 Cha | nnels | |
| Recorded Sound | 32 | Melodies and Alarm Sour | nds | |
| Sound Group | 16 Patterns (A to P) | | | |
| Protection Rating | IP54 (When flush-mounted, Upright direction Only) | | | |
| Vibration Resistance | 45m/s ² | 19.6m/s ² | | |
| Mass (Tolerance ±10%) | 350g | 53 | 0q | |

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Melody/Alarm Horn







110_{dB at 1m}

32 Channels (Binary)

IP65

NPN/PNP Open-collector

Cable



Terminal 👚



Exceptional Sound Quality Field Programmable Melody/Alarm Horn

FEATURES

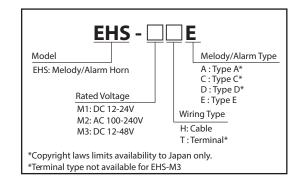
- EHS comes with 32 preloaded melody and alarm sounds with adjustable volume up to 110dB (at 1m).
- Ideal for plant-wide notification, public address and process control.
- · Robust, indoor and outdoor use with vibration resistance up to 4.5G.
- Protection Rating of IP65.
- UL464, CSA-C22.2 NO.205-M1983, FCC Part 15 Subpart B Class 4.
- CE, RoHS Compliant (EHS-M1 Only).

EHS vs EHV (Functionality Comparisons)

| Model | Onboard Sounds | MP3 Playback | Playback Modes | No. of Playback Channels | |
|-------|----------------|--------------|----------------|------------------------------------|--|
| EHS | 32 Sounds | No | 1 Mode | 8 ch Bit Input/ 32 ch Binary Input | |
| EHV | 63 Sounds | Yes* | 4 Modes | 8 ch Bit Input/ 63 ch Binary Input | |

^{*} Internal Memory size of 2 Mbytes, maximum playback of 220 seconds at a 64kbit/sec rate

How to Order



Specifications

EHS

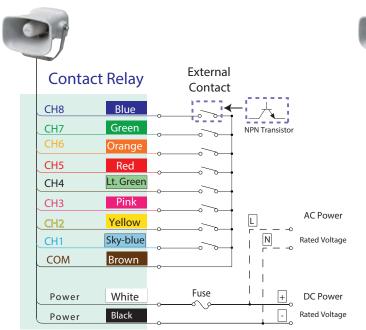
| EU2 | | | | | | | | | |
|----------|---------------|-----------------|--|------------------------------|------------------------------------|----------------------------------|-------------------|-------------|--------|
| Model | Rated Voltage | Voltage Range | Power Consumption | Sound Pressure | Operating Temperature Range | No. of Playback Messages | Protection Rating | Wiring Type | Mass |
| EHS- M1H | DC 12 - 24V | DC 10.8V to 35V | 5.0W (DC24V NPN, Non-voltage Contact) | | | | | Cable | 1.25kg |
| EHS- M1T | DC 12 - 24V | DC 10.8V 10 33V | 5.9W (DC24V PNP, Voltage Contact) | l., | 2205 - 205 | 80.1 | | Terminal | 1.23kg |
| EHS- M3H | DC 12 - 48V | DC 10V to 60V | 5.1W (DC48V NPN, Non-voltage Contact) | Alarm: Max. 110dB (at 1m) | -20°C to +50°C (85% RH or less) | Bit Input: 8 Binary Input: 32 | IP65 | Cable | 1.15kg |
| EHS- M2H | AC 100 - 240V | AC 90V to 264V | 6.9W (AC240V NPN, Non-voltage Contact) | | | , . | | Cable | 1.25kg |
| EHS- M2T | AC 100 - 240V | AC 30V to 204V | 0.5W (AC240V N N, Non-Voltage Contact) | | | | | Terminal | 1.23kg |

Notes:

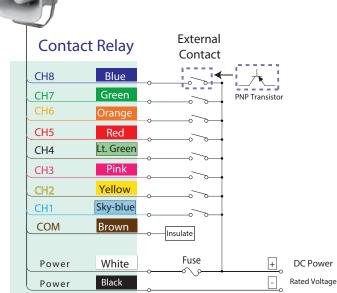
- The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.
- Even when starting two or more units simultaneously, a lag will occur during message playback.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

Wiring

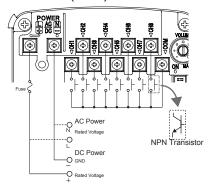
Non-voltage (NPN) Wiring



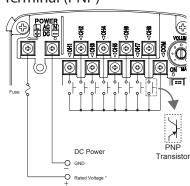
PNP Wiring



Terminal (NPN)



Terminal (PNP)



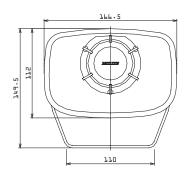
| Transistor Capacity (NPN & PNP) | | | | | |
|---------------------------------|--------------------------|--|--|--|--|
| Current Capacity | $I_{C} \geq 15mA$ | | | | |
| Current Leakage | $I_L \leq 0.1 \text{mA}$ | | | | |
| Withstand Voltage | V _C ≥ 35V | | | | |
| ON Voltage(V _{sat}) | Less than 1V | | | | |

| Recommended Fuse | | | | | |
|------------------|----------|--|--|--|--|
| Rated Voltage | 250V | | | | |
| Rated Current | 1A | | | | |
| Fuse Type | Standard | | | | |

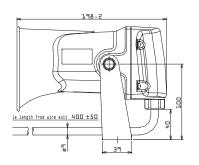
| Maximum Inrusl | h Current |
|----------------|-----------|
| EHm1 | 12.5A |
| EHM2 | 23.0A |
| FH□-M3 | 45 0A |

Dimensions (Unit: mm)

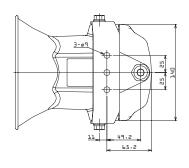
Front View



Side View

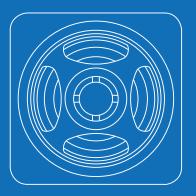


Underside View

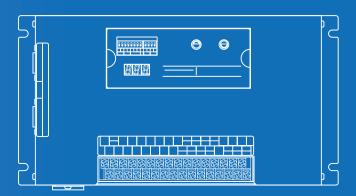




Sensormatic srl - Via della Beverara 13 - 40131 Bologna - Italia Tel. +39 051 6353 511 - Fax +39 051 6345 925 - www.sensormatic.it



Voice & Sound



BDV

Voice Annunciator



87_{dB at 1m}

15 Channels (Binary)

63 Seconds

P54(Upright Only)

□80

NPN Open-collector

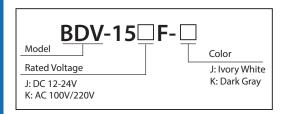


Excellent sound quality with MP3 playback! This panel-mounted MP3 voice annunciator uses SD cards*, allowing messages to be changed easily. (*Recommended: SDV-2GP)

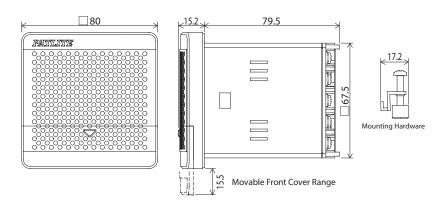
FEATURES

- · Only Flush-mounting style available.
- Able to produce a loud sound of up to 87 dB (at 1m) despite its compact size
- A volume control on the front panel provides an easy way to adjust the sound volume.
- The use of an SD card allows message changes without uninstalling the device.
- Environmentally friendly since the unit complies with the EU RoHS Directives.
- Several playback modes are available for various applications.
- Includes binary input as a standard option for selecting up to 15 messages.
- · Supports input selection using NPN open-collector transistor.
- The unit complies with EU Directives and includes the CE mark (BDV-15JF only)
- Two colors are available for selecting the best color match for the installation.
- Protection rating: IP54 (only the front panel when flush-mounted)

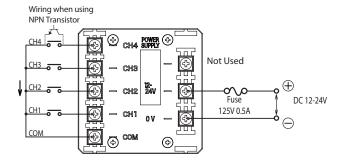
How to Order

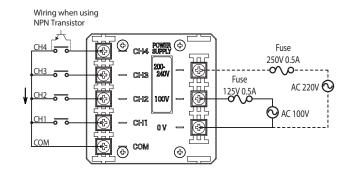


Dimensions (Unit: mm)



Wiring Diagram





Playback Modes

Mode Selector Switch

Several playback modes for a combination of applications.

Bit Input Mode

Plays back up to 4 messages using Channels

Binary Input Mode

Plays back up to 15 messages using Channels 1 to 4.

Bit Input/ Volume

Plays back up to 3 messages using Channels 1 to 3. When Channel 4 receives an input, Reduction Mode the volume is reduced by about -10dB.

Binary Input/ Volume Reduction Mode

Plays back up to 7 messages using Channels 1 to 3. When Channel 4 receives an input, the volume is reduced by about -10dB.

Bit Input/ Priority Message Playback Mode

Plays back up to 7 messages using Channels 1 to 3. If a message input occurs during playback of another message, the message will stop and allow the input message to

Binary Input/ Playback Mode

Plays back up to 15 messages using Channels 1 to 4. If a message input occurs during Priority Message playback of another message, the message will stop and allow the input message to

Bit Input/ Hold Message Playback Mode Plays back up to 4 messages using Channels 1 to 4. As long as the input is held on, the message is played back, once the input is removed, the message playback stops.

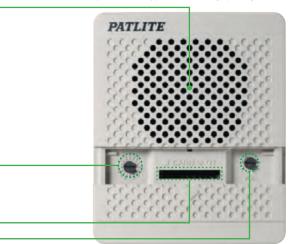
Binary Input/ Hold Message Playback Mode Plays back up to 15 messages using Channels 1 to 4. As long as the input is held on, the message is played back, once the input is removed, the message playback

Test Playback Mode

Plays back Message No. 1

Up to 87dB (at 1m)

Despite its slim appearance, it is able to produce a maximum of 87dB (at 1m). (Actual sound level will depend on sound type and surrounding operating conditions.)



Volume Control

The volume is easily accessable from the front for adjustment.

Memory Card Slot

With an SD Card, messages can be changed while the unit is still mounted.

Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.



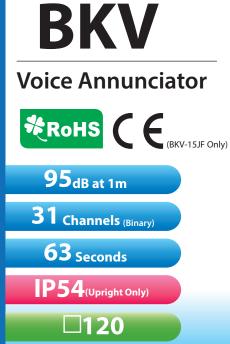
Specifications

| Model | Rated Voltage | Operating Voltage Range | Power Consumption | Sound Level (Max.) | Voice File | Operating Temperature Range | Maximum Playback Time | No. of Playback Inputs | Protection Rating | Mass |
|----------|------------------|-----------------------------|----------------------|--------------------------|---|-----------------------------------|-----------------------------|------------------------------|----------------------|------|
| BDV-15JF | DC 12-24V | DC 10.8V - 26.4V | 4W | 87dB* | MPEG- Audio Layer (MP3) | -10 - +50°C | | Bit: 4 | IP54 | 220g |
| BDV-15KF | AC 100/220V | AC 100V ±10% AC 220V±10% | 5W | (at 1m) | Standard Bit Rate: 64kb/s Fs=44.1kHz | (RH less than 85%) | 63 sec. | | (Panel Mount) | 340g |

Notes:

- Actual sound level will depend on sound type and surrounding operating conditions.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing







Excellent sound quality with MP3 playback! This panel-mounted MP3 voice annunciator uses SD cards,* allowing messages to be changed easily. (*Recommended: SDV-2GP)

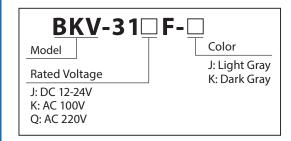
FEATURES:

• Only Flush-mounting style available.

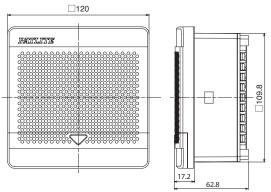
Open-collector

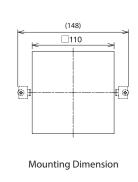
- Able to produce a loud sound of up to 87 dB (at 1m) despite its compact size
- A volume control on the front panel provides an easy way to adjust the sound volume.
- The use of an SD card allows message changes without uninstalling the device.
- Environmentally friendly since the unit complies with the EU RoHS Directives.
- Several playback modes are available for various applications.
- Includes binary input as a standard option for selecting up to 15 messages.
- Supports input selection using NPN open-collector transistor.
- The unit complies with EU Directives and includes the CE mark (BKV-15JF only)
- Two colors are available for selecting the best color match for the installation.
- Protection rating: IP54 (only the front panel when flush-mounted)

How to Order



Dimensions (Unit: mm)





Playback Modes

Mode Selector Switch

Several playback modes for a combination of applications.

| A Bit Input Mode Plays back up to 5 messages using Channe 1 to 5. | els |
|---|-----|
|---|-----|

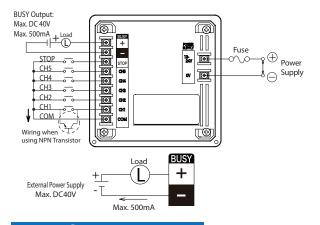
- B Binary Input Mode Plays back up to 31 messages using Channels 1 to 5.
- Bit Input/ Plays back up to 4 messages using Channels
 Volume 1 to 4. When Channel 5 receives an input,
 Reduction Mode the volume is reduced by about -15dB.
- Binary Input/
 Volume
 Reduction Mode

 Plays back up to 15 messages using
 Channels 1 to 4. When Channel 5 receives
 an input, the volume is reduced by about
 -15dB.
- Plays back up to 5 messages using Channels
 1 to 5. If a message input occurs during
 Priority Message
 Playback Mode
 Playback Mode
 Will stop and allow the input message to play back.
- Binary Input/
 Priority Message
 Playback Mode
 Playback Mode
 Playback Mode
 Playback Mode
 Playback Mode
 Playback of another message, the message will stop and allow the input message to play back.
- Bit Input/
 Hold Message
 Playback Mode

 Plays back up to 5 messages using Channels
 1 to 5. As long as the input is held on, the
 message is played back, once the input is
 removed, the message playback stops.
- Binary Input/
 H Hold Message
 Playback Mode

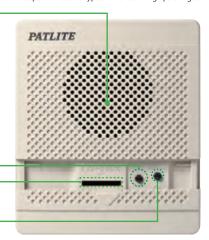
 Plays back up to 31 messages using
 Channels 1 to 5. As long as the input is held
 on, the message is played back, once the
 input is removed, the message playback
 stops.
- Test Playback Mode Plays back Message No. 1

Wiring Diagram



Up to 95dB (at 1m)

Despite its slim appearance, it is able to produce a maximum of 87dB (at 1m). (Actual sound level will depend on sound type and surrounding operating conditions.)



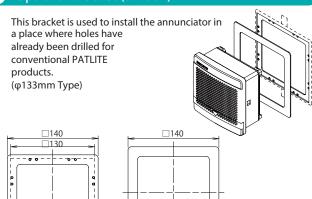
Volume Control

The volume is easily accessable from the front for adjustment.

Memory Card Slot

With an SD Card, messages can be changed while the unit is still mounted.

Optional Bracket (BK-001)



Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP R5

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.

Protrusion for positioning



Specifications

| | Model | Rated Voltage | Operating Voltage Range | Power Consumption | Sound Level (Max.) | Voice File | Operating Temperature Range | Maximum Playback Time | No. of Playback Inputs | Protection Rating | Mass |
|---|----------|------------------|----------------------------|----------------------|--------------------------|---------------------------|-----------------------------------|-----------------------------|------------------------------|----------------------|------|
| | BKV-31JF | DC 12-24V | DC 10.8V - 26.4V | 9W | ٥٢٩٥ | MPEG- Audio Layer (MP3) | -10 - +50°C | | Bit: 5 | IP54 | 350g |
| ſ | BKV-31KF | AC 100V | AC 100V ±10% | 10W | 95dB (at 1m) | Standard Bit Rate: 64kb/s | -10 - +50 C (PH loss than 85%) | 63 sec. | | (Panel Mount) | F20a |
| | BKV-15KF | AC 220V | AC 220V ±10% | 1000 | (at IIII) | Fs=44.1kHz | (MTTIESS CHAIT 6570) | | billary. 51 | (Farier Mourit) | 530g |

Notes: - Actual sound level will depend on sound type and surrounding operating conditions.

- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

BSV













87_{dB at 1m}

15 Channels (Binary)

63 Seconds

P54(Upright Only)

□75

NPN/PNP Open-collector



The unbelievably thin design for tighter installations.

FEATURES

- Sound reduction is made with just one signal input. (Using the sound reduction function reduces the number of playback messages.)
- Diverse operational modes in combination with commands can be setup for the right application.
- The use of the SD card can allow changing messages while out in the field.
- Protection Rating of IP54 (Only for front panel mount attachment).
- Despite the thin shape, it has a maximum output of 87dB (at 1m).
- It complies with Europe's environment-friendly RoHS Directive.
- Can be used with transistor driven inputs. (Either NPN or PNP)
- · A compact design with only a thickness of 19.9mm.
- · Two installation choices of panel or wall mount.
- · The volume control is accessible from the front.
- Listed by Underwriters Laboratories Inc.
- · Conforms to the CE requirements.



With the built-in SD card slot, MP3 data rewriting can be done with an SD card. In addition, rewriting or editing MP3 data files is possible with or without the exclusive PATLITE Playlist Editor 2 Application software.

Easy installation from the front.

With only the need to access the front cover, reduction in labor time and maintenance is simpler with easily removing the front cover for installation and volume adjustment, etc.





Easy turn of the screw to lock!



Options

PATLITE Playlist Editor 2 (Free Download)

SD Card (2 GB) SDV-2GP

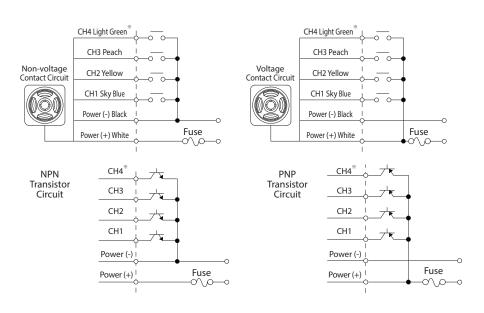
(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.



Dimensions (Unit: mm)

Wiring





Panel Mount

Wall Mount

Specifications and How to Order

| Specifications | _ | _ | _ | _ | _ | | _ | | | _ | | |
|--|--------------------|--|--------------------------------|--|----------------|------------------------------------|----------------------|------------------------------------|----------------------|--------------|----------------------------------|------------------|
| Model | Transistor Type | Rated Voltage | Operating Voltage Range | Power Consumption | Sound Level | Operating Temperature Range | Max.Playback Time | Playback Channels | Protection Rating | Mass | Front Cover Color | Recorded Data |
| BSV-24NM-W/D | | | | | | | | | | | Off white (-W) Dark Gray (-D) | Voice |
| BSV-24NM-S | NPN Transistor | | | | | | | | | | Silver (-S) | Voice |
| BSV-24N-W/D | Transistor | | | | Max. 87dB | | | 4 (Bit Input) 15 (Binary Input) | IP54 | | Off white (-W) Dark Gray (-D) | Alarm |
| BSV-24N-S | | DC | DC 10.8V 12-24V to 26.4V | 3.5W | (at 1m) | -10°C to +50°C (RH 85% or less) | 63sec. | *When using the Sound Reduction | (Only for Panel | 100g ±10% | Silver (-S) | Alailli |
| BSV-24PM-W/D | | 12-24V | | 0.0** | | | | | | | Off white (-W) Dark Gray (-D) | Voice |
| BSV-24PM-S | PNP Transistor | | | | | | | | | | Silver (-S) | |
| BSV-24P-W/D | Transision | | | | | | | | | | Off white (-W) Dark Gray (-D) | |
| BSV-24P-S | | | | | | | | | | | Silver (-S) | Alarm |
| BSV-24 Transistor Type N: NPN Transistor P: PNP Transistor P: PNP Transistor | | 2 Playback Time L: 520 sec. Blank: 63 sec. | В | (3) Registered Messages Blank: None (15 Alarm Sounds) M: Pre-recorded Messages W: Off white D: Dark Gray S: Silver | | | | | | | | |

Notes:

- Actual sound level will depend on sound type and surrounding operating conditions.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing.

☐ The method for data rewriting when not using the exclusive application software:











MP3 Alert/Melody/Alarm Horn







(12/24V O

110_{dB at 1m}

63 Channels (Binary)

IP65

NPN/PNP Open-collector

Cable (





Exceptional Sound Quality Field-programmable MP3 Alarm

FEATURES

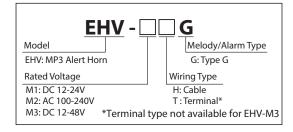
- EHV comes with 63 binary channels with adjustable volume up to 110dB (@ 1m).
- EHV offers a field-programmable MP3 function with a maximum of 220 sec. of recording time (@ 64bps), ideal for plant-wide notification and process control.
- Robust, indoor and outdoor use with vibration resistance up to 4.5G, ideal for public address.
- Compliant to UL464 (EHV-M3 Not Included), CSA-C22.2 NO.205-M1983, FCC Part 15 Subpart B Class 4.
- Protection Rating of IP65 and CE (EHV-M2 Not Included), RoHS Compliant.

EHS vs EHV (Functionality Comparisons)

| Model | Onboard Sounds | MP3 Playback | Playback Modes | No. of Playback Channels | |
|-------|----------------|--------------|----------------|------------------------------------|--|
| EHS | 32 Sounds | No | 1 Mode | 8 ch Bit Input/ 32 ch Binary Input | |
| EHV | 63 Sounds | Yes* | 4 Modes | 8 ch Bit Input/ 63 ch Binary Input | |

^{*} Internal Memory size of 2 Mbytes, maximum playback of 220 seconds at a 64kbit/sec rate

How to Order



4 Playback Modes

Normal Playback Designated audio message is played back by distinctive signal input. Audio message is played back once in case of one shot input, and audio message is repeated when the signal is input continuously.

Memory Playback Up to 23 audio message inputs can be memorized in order of input. After one playback is finished, the next memorized audio message will be played back. The inputs exceeding the limit will not be memorized.

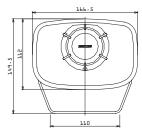
Latest Input Priority Playback

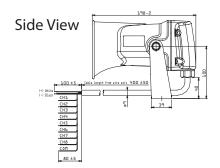
When a signal is input during a message playback, the current message playing back will be stopped, and the message of the signal input will be played instead.

Momentary Playback Audio message is played back only while the signal input is maintained. Playback will be stopped when the signal input is stopped.

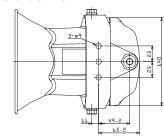
Dimensions (Unit: mm)

Front View





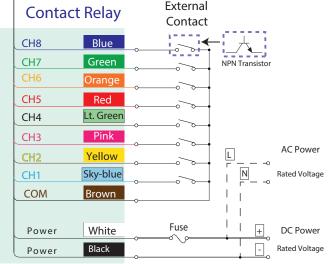
Underside View



Wiring

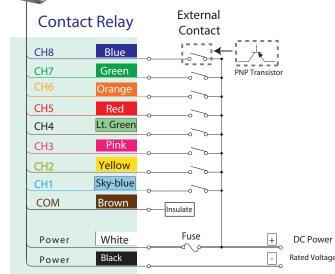
Non-voltage (NPN) Wiring



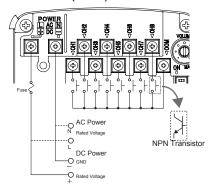


PNP Wiring

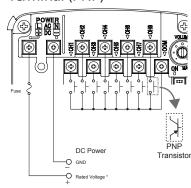




Terminal (NPN)



Terminal (PNP)



| Transistor Capacity (| (NPN & PNP) |
|-------------------------------|----------------------------|
| Current Capacity | $I_{c} \geq 15 \text{mA}$ |
| Current Leakage | $I_{L} \leq 0.1 \text{mA}$ |
| Withstand Voltage | V _c ≥ 35V |
| ON Voltage(V _{sat}) | Less than 1V |

| Recommended Fuse | | | | | |
|------------------|----------|--|--|--|--|
| Rated Voltage | 250V | | | | |
| Rated Current | 1A | | | | |
| Fuse Type | Standard | | | | |

| Maximum Inrush Current | | | |
|------------------------|-------|--|--|
| EH∏-M1 | 12.5A | | |
| EH∏-M2 | 23.0A | | |
| ЕН∏-мз | 45.0A | | |

Specifications

EHV

| Model | Rated Voltage | Voltage Range | Power Consumption | Sound Pressure | Operating Temperature Range | No. of Playback Messages | Protection Rating | Wiring Type | Mass |
|----------|------------------|-------------------|---|------------------------------|---|----------------------------------|-------------------|-------------|--------|
| EHV- M1H | DC 12 - 24V | DC 10.8V to 26.4V | 4.0W (DC24V NPN, Non-voltage Contact) | Alarm: Max. 110dB (at 1m) | | | | Cable | 1.25kg |
| EHV- M1T | | DC 10.8V to 26.4V | 5.0W (DC24V PNP, Voltage Contact) | | , | | | Terminal | 1.23Kg |
| EHV- M3H | DC 12 - 48V | DC 10V to 60V | .6W (DC48V NPN, Non-voltage Contact) | | -20°C to +50°C (85% RH or less) | Bit Input: 8 Binary Input: 63 | IP65 | Cable | 1.15kg |
| EHV- M2H | AC 100 - 240V | AC 90V to 264V | 5.3W (AC240V NPN, Non-voltage Contact) | MP3: Max. 105dB (at 1m) | , | billary ilipati os | | Cable | 1 251 |
| EHV- M2T | AC 100 - 240V | AC 90V TO 204V | 5.500 (AC2400 INFIN, NON-VOITage Contact) | Max. 103db (at 1111) | | | | Terminal | 1.25kg |

Notes:

- The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.
- Even when starting two or more units simultaneously, a lag will occur during message playback.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing

Get the Playlist Editor 2 (free from PATLITE)

- Contact us by E-mail located on the back of this catalog.
- Convert any message into MP3 data and save it onto an SD Card (with the use of the Playlist Editor 2).
- Insert the SD Card into a PATLITE MP3 product for easy programming.

| Application Software | Usable | Outline |
|---------------------------|--------|---|
| PATLITE Playlist Editor 2 | Yes | This is a newer version of the PATLITE Playlist Editor. A playlist package can be created and the MP3 data and channel function assignment for the product can be rewritten. |
| FV-Win | No | This product is not compatible with the |
| PATLITE Playlist Editor | No | playlist created by FV-Win or the PATLITE Playlist Editor. However, the playlist can be changed into a playlist package using the PATLITE Playlist Editor 2. |

FV-127JP MP3 File Playback Circuit Board







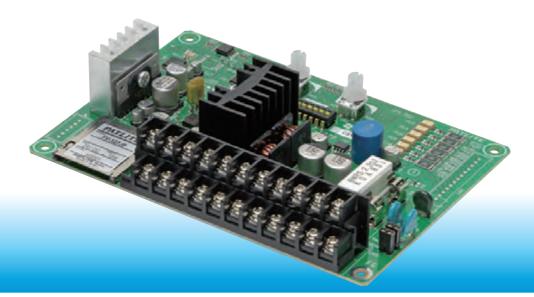


127 Channels (Binary)

8 Minutes

24VDC

Open-collector



Audio messages can be registered up to 127 channels, ideal for various equipment or facility purpose where the audio message assistance is required.

FEATURES

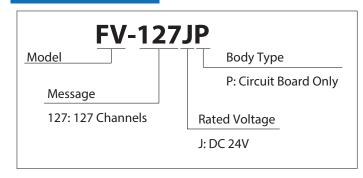
- High quality sound and long playback time.
- MP3 compressed audio file format enables long playback time and high quality sound.
- Approximately eight minutes worth of audio messages can be stored in the onboard memory.
- Capable of 240 minutes of message playback when using an SD card as external memory. (MP3 data at standard 64kbit/s rate and 128Mb SD Card)
- Audio messages can be overwritten and reprogrammed with the Playlist Editor 2 (free download) and optional SD Card.
- Data stored in the onboard memory can be extracted to the SD Card.
- 3 sound reduction levels of -10dB, -20dB and -30dB (at 1m) can be controlled by an external signal.
- Five different playback modes are available

NOISE REDUCTION FEATURES

- Input delay can be selected (10ms or 50ms) to reduce noise
- Extending the delay to input a signal reduces noise
- Another noise countermeasure can include setting jumper pins OTHER FEATURES

- Terminal block to provide safe and secure wire connections.
- Selectable speaker output (2W or 4W), AUX and BUSY Output terminals.
- Operating voltage range is from 19V to 29V DC (Rated Voltage: 24V DC)
- This product is compliant with the RoHS directive (DIRECTIVE 2002/95/EC)

How to Order



Options

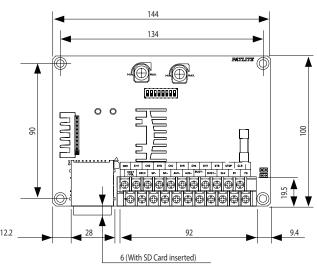
PATLITE Playlist Editor 2 (Free Download)

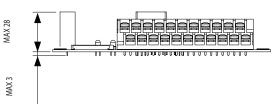
SD Card (2 GB) SDV-2GP

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.







Playback Modes

Normal Playback Designated audio message is played back by distinctive signal input. Audio message is played back once in case of one shot input, and audio message is repeated when the signal is input continuously.

Memory Playback Up to 23 audio message inputs can be memorized in order of input. After one playback is finished, the next memorized audio message will be played back. The inputs exceeding the limit will not be memorized.

Latest Input and Greater Channel Priority Playback When the signal for a greater channel number is input during the message playback, the audio message being played back will be stopped, and previous audio message input will be played back. When the signal for the same or smaller channel number is input, the signal will not be accepted.

Momentary Playback Audio message is played back only while the signal input is maintained. Playback will be stopped when the signal input is stopped.

Latest Input Priority Playback When the signal is input during the message playback, the audio message being played back will be stopped, and the previous audio message input will be played back.

Specifications

| | General Specifications | | |
|-----------------------------|--|--|--|
| Model Name | FV-127JP | | |
| Rated Voltage | DC 24V | | |
| Operating Voltage Range | DC 19 to 29V | | |
| Wiring Method | M3 Terminal Bus | | |
| Power Consumption | Maximum 15W (1*) | | |
| Operating Temperature Range | -10 to 50°C | | |
| Storage Temperature | -40 to 80°C | | |
| Relative Humidity | 85% RH or less | | |
| Operating Environment | Built-in Type Only | | |
| Installation Method | 4 Screw Tie-down | | |
| Vibration Resistance | 45m/s2 (30Hz forward and back/Left and right for 2hrs., up and down for 4hrs.) | | |
| Mass | 160g ±10% | | |
| Outer Dimensions | 144×100×28 [mm] (Lead Wires and Mounting Posts not included) | | |
| | Audible Specifications | | |
| Replay Message Number | For Binary: 127 For Bit Input: 7 | | |
| Audio File Format | MPEG1-Audio Layer: (MP3) | | |
| Bit Rate | 32kbit/s; 64kbit/s(Standard); 128kbit/s Fs=44.1kHz | | |
| Maximum PlaybackTime | On-board Memory (4MB): About 8 min (Recorded with standard bit rate) External Memory (SD Card): With 128MB about 240 min. (Standard Bit Rate Recording | | |
| On-board Memory Size | 4,360,191byte | | |
| Audio Start-up Time | About 260ms (When sound mute not added at beginning and end of messages | | |
| Audio Pause Time | Unless specified, 100ms sound mute added at beginning and end of message | | |
| Compatable Memory Card | SD Card Recommended Part No.: SDV-2GP (Sold Separate) | | |
| Card Format | FAT16 | | |
| Audio Rewrite Capability | Use with Patlite Playlist Editor 2 (Free Download) and an SD Card | | |
| Audio Rewrite Time | About 180 sec. (When changing the 4MB on-board memory) | | |
| | Input / Output Specifications | | |
| Signal Input Section | CH1, CH2, CH3, CH4, CH5, CH6, CH7, STB, CLR, STOP, DEC1/VOL, DEC2 | | |
| Signal Input Priority | CLR Input > STOP Input > CH Input (Larger Channel takes Priority) | | |
| Sound Reduction Input | Speaker/AUX Output: Three Sound Reduction Levels of -10dB, -20dB, -30dB (1 | | |
| Input Hold Time | More than 10ms or 50ms (Changeable Settings) | | |
| Signal Input Type | Non-voltage contact or NPN Open Collector | | |
| Speaker Output | 90 compatable speaker of 4W or more | | |
| Maximum SoundPressure | Speaker Output at 4W: 105 dB; at 2W: 102dB (2*) | | |
| AUX Output | 0dBV 600Ω (Adjustable with Volume Control or Sound Reduction Input) | | |
| BUSY Output | Maximum DC40V, 500mA | | |

^{(1*) 1}kHz Sine Wave Data Playback at -6dB

(2*) At 1m with 1kHz Sine Wave Data Playback and SPW-SE Speaker (Sold Separate) Notes:

- This product complies with the RoHS directive (DIRECTIVE 2002/95/EC)
- Actual sound level will depend on sound type and surrounding operating conditions.
- MPEG Layer-3 audio coding technology licensed from Fraunhoffer IIS and Thompson Licensing