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## **SPECIFICATIONS**

# 1. Specifications

1-1. General Specificat							
Product Nar	ne	Horn Type Annunciator					
Model			EHV-M1				
Rated Voltag		DC12 V-DC24 V					
Operating Voltage Range			DC10.8 V-DC35 V				
Rated Current Consumption			480 mA				
Rated Power	Тур.		4.0 W (at DC12 V)				
	Conditions	Volume at max	kimum and a 1 kHz at -6 dB sine wa	ve played back			
Consumption	Max.		5.8 W (at DC12 V)				
(for NPN/No-voltage)	Conditions	At maxim	um volume and "Rapid Hi-Lo" alarm	playback			
Rated Power	Тур.		5.0 W (at DC12 V)				
	Conditions	Volume at max	kimum and a 1 kHz at -6 dB sine wa	ve played back			
Consumption	Max.		8.0 W (at DC31.6 V)				
(for PNP/Voltage Input)	Conditions	At maxim	um volume and "Rapid Hi-Lo" alarm	playback			
			4 A or less (at DC12 V)	'			
Inrush Curre	ent		9 A or less (at DC24 V)				
			12.5 A or less (at DC35 V)				
Operating Ambient To	emperature		-20 °C to +50 °C				
Operating Ambient			Less than 85 % (No condensation)				
Storage Ambient Te			-30 °C to +60 °C				
Storage Ambient I			Less than 85 % (No condensation)				
Mounting Loca			Indoors/Outdoors				
Wounting Look	ation	Upright	Sideways	Upside-down			
Mounting Dire	ction						
Protection Ra	tina		IP65 (IEC 60529)				
	ntal Condition		Upright Installation				
Insulation Resis		More than 1MO at 500	VDC between live part and non-curre	ent carrying metallic part			
Withstand Vol			nin between live part and non-currer				
	•		without breaking insulation				
Vibration Resis	tance	4 <del>5</del> .0m	n/s² IEC 60068-2-6:2007 (Upright Po	sition)			
Impact Resista	ance		s (3 axis 1 direction); 500 m/s <sup>2</sup> 11 ms for 3 EC 60068-2-27:2008 (Upright Positio				
Mass (Tolerance	+10%)	IL.	1.25 kg	11)			
Sound Pressure Lev			Maximum: 110 dB				
	onmental	Upright po	osition from horn opening at a distan	ce of 1 m.			
Cor	ndition	1 0 1	, ,				
Sound Pressure Le		Volume at maximum and "Stutter" alarm played. Maximum: 105 dB					
Environmental	Conditions			ck from the horn opening.			
Outer Dimens		Refer to 6. Outer Dimension Drawing					
Conformity Star	ndards	EMC Directive (EN 61000-6-4, EN 61000-6-2)  RoHS Directive (EN IEC 63000)  UL 464, CSA-C22.2 No. 205  FCC Part15 SubpartB Class A		)-6-2)			
Remarks		KC (KN35, KN32)  UL Listed (File No.S24210)  Conforms to the CE Requirements  Conforms to the UKCA Requirements					

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Product Nan	nΔ	Horn Type Annunciator				
Model	110	· · · · · · · · · · · · · · · · · · ·		EHV-M2		
Rated Voltag	ne	=		AC100 V-AC240 V (50/60 Hz)		
Operating Voltage				AC90 V-AC264 V (50/60 Hz)		
Rated Current Consumption	Max.		150 mA			
·	Тур.		5.3 W (at AC240 V)			
Rated Power	Conditions	Volume at may	ximum and a 1 kHz at -6 dB sine wa	ve played back		
Consumption	Max.	Volume at max	7.9 W (at AC264 V)	ve played back		
(for NPN/No-voltage)	Conditions	Δt maxim	num volume and "Rapid Hi-Lo" alarm	n nlavhack		
	Conditions	At maxim	6 A or less (at AC100 V)	1 playback		
Inrush Curre	nt		15 A or less (at AC240 V)			
illiusii oulic	i it		23 A or less (at AC264 V)			
Operating Ambient Te	amnaratura		-20 °C to +50 °C			
Operating Ambient Operating Ambient			Less than 85 % (No condensation)			
Storage Ambient Te			-30 °C to +60 °C			
Storage Ambient F			Less than 85 % (No condensation)			
Mounting Loca			Indoors/Outdoors			
Widunting Loca	ווטווג	Upright	Sideways	Upside-down		
Mounting Direc	ction					
Protection Ra	ting		IP65 (IEC 60529)			
Environme	ntal Condition		Upright Installation			
Insulation Resis	tance	More than 1MΩ at 500	VDC between live part and non-curr	ent carrying metallic part		
Withstand Vol	tage	1500VAC applied for 1	min between live part and non-curre without breaking insulation	ent carrying metallic part		
Vibration Resist	tance	45.0n	n/s <sup>2</sup> IEC 60068-2-6:2007 (Upright Po	osition)		
Impact Resista	ance		s (3 axis 1 direction); 500 m/s <sup>2</sup> 11 ms for 3 EC 60068-2-27:2008 (Upright Position	,		
Mass (Tolerance	±10%)		1.25 kg	,		
Sound Pressure Lev	,		Maximum: 110 dB			
	onmental	Upright po	osition from horn opening at a distar	nce of 1 m.		
Cor	ndition	Volume at maximum and "Stutter" alarm played.				
Sound Pressure Le	vel(MP3)	Maximum: 105 dB				
Environmental		Volume at maximum and a 1 kHz at -6 dB sine wave played back from the horn opening.				
Outer Dimens		Refer to 6. Outer Dimension Drawing				
		UL 464, CSA-C22.2 No. 205				
Conformity Standards		FCC Part15 Subpart B Class A				
1	committy orangement		KC (KN35, KN32)			
		UL Listed (File No.S24210)				
Remarks		There are no contents of controlled substances exceeding the threshold for the RoHS Directive.				
There are no contente of controlled substances exceeding the threshold for the Norto Dilect						

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1-2. Performance Specifications

MP3 Mode Switch Condition	MP3 setting ON	MP3 setting OFF	
	Volume Adjustable: Min Max.		
Volume Control	Sound Reduction Input: It is a valuespecified as a reduction from the currently adjusted volume.  (None, -10 dB, -20 dB, -30 dB selection)	-	
Sound Playback	MP3 data / Alarm/Melody (Standard)	Alarm/Melody (Standard)	
Number of Playback Channels	Bit Input: 8/binary input: 63		
Alarm/Melody	7. Sound List Reference		
Dlayback Mada	normal playback / input priority playback / hold playback / memory playback	Hold Playback	
Playback Mode	Mode Switch (DIPSW) Selection Possible.	<u> </u>	
Playback start-up time	300 ms or less (Signal Input and Power Supply Startup)		

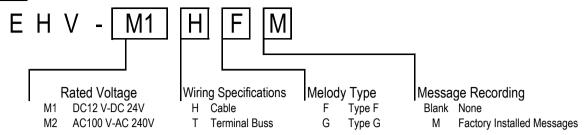
1-3.MP3 Data Specification

1-3.Mi 3 Data Specification	
Playback File	MPEG1-Audio Layer III (MP3, Fs:44.1kHz)
Bit Rate	32 Kbit/s, 64 Kbit/s (Standard), 128 Kbit/s
Dit Rate	Constant Bit Rate (CBR)
Maximum Playback Time	A total of 220 seconds (calculated with one MP3 file at the standard bit rate)
Internal Memory Size	2 MByte (Management Territory is Included)
Supported Memory Card	SD Card/SDHC Card
Supported Memory Card	Recommended Parts: SDV-2GP (option)
SD Card Format	FAT 16, 32
Supported Application Software	PATLITE Playlist Editor 2
Supported Application Software	(MP3 data rewriting, alarm/melody selection)
Remarks	MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson Licensing.

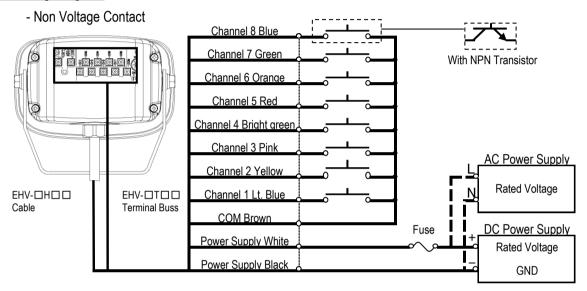
1-4. Signal Input Specification Signal Input Priority Channel 8 > Channel 7 > Channel 6 > Channel 5 > Channel 4 > Channel 3 > Channel 2 > Channel 1 (except for a binary input) Contact Control Method [EHV-M1]: Non-voltage/Voltage Contact [EHV-M2]: Non-voltage Contact Contact Closed-Circuit Current 12mA or less Contact Open-Circuit Voltage (EHV-M1): 6V or less [EHV-M2]:8V or less Non-voltage Contact Voltage Contact (EHV-M1 Only) EH□-M1 : 9V EH□-M2 : 12V EH□-M1 : 9V **Contact Input** (Circuit Configuration) CH 3mA ~ 12mA ! CH Insulating NPN Transistor PNP Transistor (EHV-M1 Only) EH□-M1 : 9V EH□-M2 : 12V EH□-M1:9V External Supply Transistor Input 10.8V ~ 31.6V (Circuit Configuration) 3mA ~ 12mA Insulating

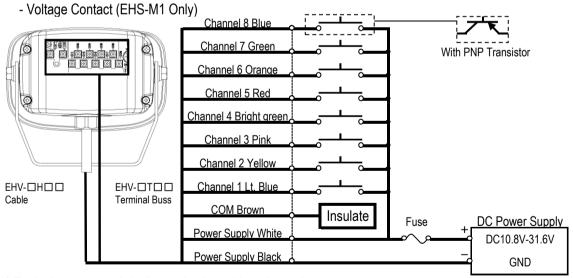
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## 2. Model



## 3. Wiring Diagram



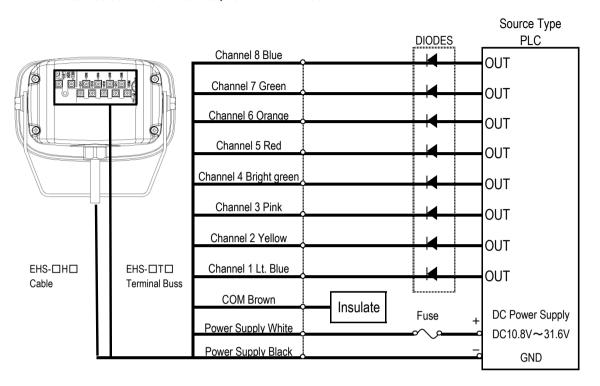


- \* Each channel color is indicated by the cable or lead wire.
- \* Voltage contact input should be in the range of DC10.8 V to DC31.6 V.
- \* When using the Terminal type model, round terminals with M3 insulated coating is recommended when wiring to the Terminal.

Recommended Parts: J.S.T. Manufacturing Co., Ltd. N1.25-3 (article corresponding to RoHS)

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When connecting a Source-type PLC, be sure to insert a diode as indicated in the drawing below. Failure to insert a diode will lead to possible malfunction.

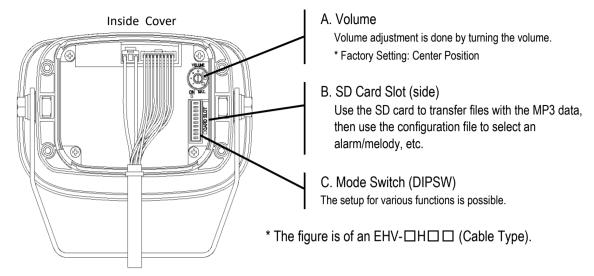


★Select a diode with ratings indicated below.

Forward Current	50mA or more
Reverse Voltage	50V or more

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## 4. Part Names and Functions



Mode Switch Function Assignment

Mode Switch Function As  Mode Switch	(6) Forced Playback OFF	(6) Forced Playback ON
(5) MP3 Setup OFF	(6) Forced Playback (5) MP3 Setup (4) Sound Mode Open (2) Channel Input Method (1) Sound Group	(6) Forced Playback (5) MP3 Setup (4) Sound Mode Open  (7) Tone Selection
(5) MP3 Setup ON	(6) Forced Playback (5) MP3 Setup (4) Sound Mode (3) Playback Mode (2) Channel Input Method Open	(6) Forced Playback (5) MP3 Setup (4) Sound Mode Open (7) Tone Selection

## Mode Switch Function List

Function Name	Setting Index	Details		
(1) Sound Group	Groups A-P	Refer to "5-1. Sound Group."		
(2) Channel Input Method	Binary/Bit	Refer to "5-2. Channel Input Method."		
(3) Playback Mode	Normal playback / Input priority playback / Hold playback / Memory playback	Refer to "5-3. Playback Mode."		
(4) Sound Mode	Factory Mode / Public Address Mode	Refer to "5-4. Sound Mode."		
(5) MP3 Setup	MP3 Setup ON/OFF	Refer to "5-5. MP3 Setup."		
(6) Forced Playback	Forced Playback ON/OFF	Pofor to "5 0. Forced Blowbook "		
(7) Tone Selection	Playback Sound Selection	Refer to "5-9. Forced Playback."		

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## 5. Functionality Details

## 5-1. Sound Group

When "(5) MP3 setup" switch is being turned OFF, the sound group can be selected from up to 16 variations from groups A-P with the Mode Switch (DIPSW).

A sound group cannot be selected when "(2) channel input method" is set for binary.

Refer to "7. sound list" for the Mode Switch (DIPSW) and sound group combination which can be selected.

## 5-2. Channel Input Method

Channel input mode can be selected for bit/binary with the Mode Switch (DIPSW). With the bit input, channels 1-8 can be used to reproduce up to eight channels. With the binary input, channels 1-6 can be used to reproduce up to 63 channels.

	<b>□</b> ■□	2-	
	Bit	Binary	
*F	actory Setting:EHV-□□□ EHV-□□□M	 Bit Specified Messages Less than 8:E Specified Messages greater than 9:	

Binary Ing	Binary Input Table																
Sound No.				Cha	nnel				Sound No.				Cha	Channel			
Souria No.	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
1	0								33	0					0		
2		0							34		0				0		
3	0	0							35	0	0				0		
4			0						36			0			0		
5 6	0		0						37	0		0			0		
6		0	0						37 38		0	0			0		
7	0	0	0						39	0	0	0			0		
8				0					40				0		0		
9	0			0					41	0			0		0		
10		0		0					42		0		0		0		
11	0	0		0					43	0	0		0		0		
12			0	0					44			0	0		0		
13	0		0	0					45	0		0	0		0		
14		0	0	0					46	0	0	0	0		0		
15	0	0	0	0					47	0	0	0	0		0		
16					0				48					0	0		
17	0				0				49	0				0	0		
18		0			0				50	0	0			0	0		
19	0	0			0				51	0	0			0	0		
20 21			0		0				52	0	0	0		0	0		
21	0		0		0				53	0	0	0		0	0		
22		0	0		0				54 55	0	0	0		0	0		
23	0	0	0		0				55	0	0	0		0	0		
24					0				56				0	0	0		
25 26	0			0	0				57	0			0	0	0		
26		0		0	0				58		0		0	0	0		
27	0	Ō		0	0				59	0	Ō		0	0	0		
28			0	0	0				60			0	0	0	0		
l 29	0		0	0	0				61	0		0	0	0	0		
30 31		0	0	0	0				62		0	0	0	0	0		
31	0	0	0	0	0				63	0	0	0	0	0	0		
32						0											

<sup>\*</sup> Factory Setting: Group A

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#### 5-3. Playback Mode

The Mode Switch (DIPSW) can select from four different kinds of playback modes. When "(5) MP3 setup" is OFF, the hold playback function is active, regardless of the Mode Switch position.

	9	<u></u>	9
Normal Playback	Input Priority Playback	Hold Playback	Memory Playback

<sup>\*</sup> Factory Setting: Normal Playback

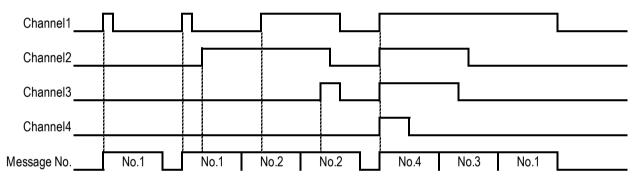
#### - Normal Playback

If a signal input (Playback) is a pulse input, playback is ended as soon as the pulse input is off.

The signal input (Playback) is maintained only when the input is held on.

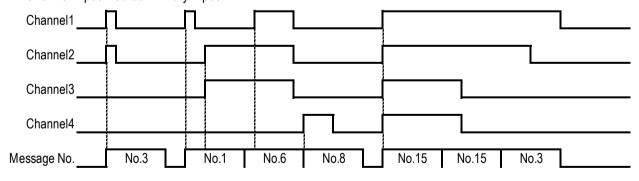
The signal input (Playback) becomes invalid during playback.

- Channel Input Method : Bit Input



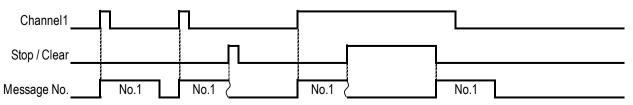
<sup>\*</sup>All channels above 5 are the same

Channel Input Method : Binary Input



<sup>\*</sup>All channels above 5 are the same

During a Stop/Clear Input



<sup>•</sup> The wavy line indicates when playback is stopped.

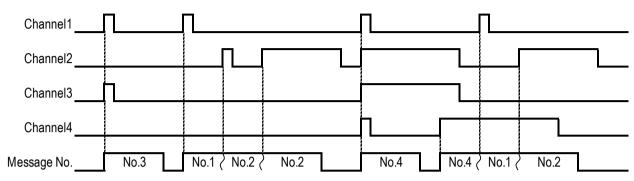
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## - Input Priority Playback

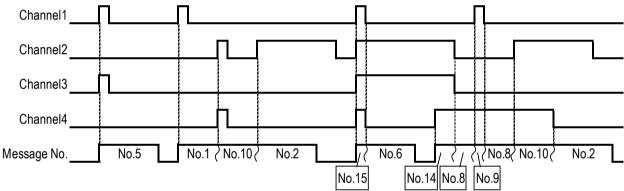
When a signal input (Playback) is on during playback, the playback is stopped and the channel from the signal input (Playback) is reproduced.

If the signal input (Playback) is a pulse input, even with the input held, playback plays only once.

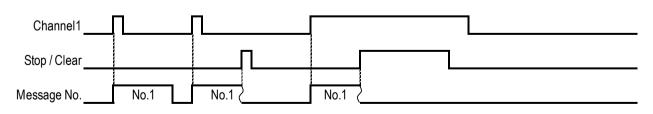
- Channel Input Method : Bit Input



- \* All channels above 5 are the same
- \* The wavy line indicates when playback was stopped and the message No. which was the priority signal input (Playback) is played.
- Channel Input Method : Binary Input



- \* All channels above 5 are the same
- \* The wavy line indicates when playback was stopped and the message No. which was the priority signal input (Playback) is played.
- During a Stop / Clear Input



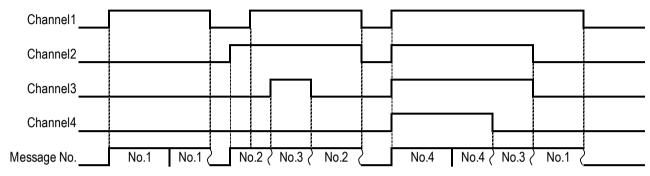
<sup>\*</sup> The wavy line indicates when playback is stopped.

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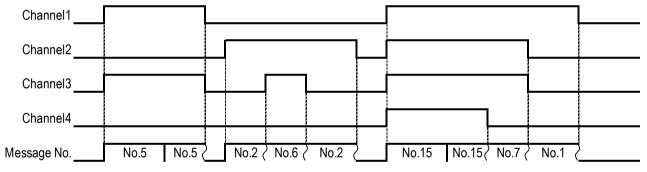
## - Hold Playback

It only plays back while the signal input (Playback) is maintained. Playback is stopped when the signal input (Playback) is removed. Repeated playback is done by maintaining a signal input (Playback). It does not play back if a signal input (Playback) is a pulse input.

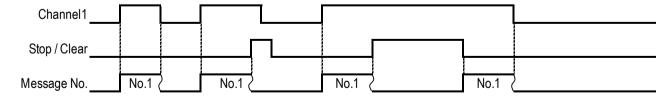
- Channel Input Method : Bit Input



- \* All channels above 5 are the same
- \* The wavy line indicates when playback was stopped and the message No. which was the changed signal input (Playback) is played.
- Channel Input Method : Binary Input



- \* All channels above 5 are the same
- \* The wavy line indicates when playback was stopped and the message No. which was the changed signal input (Playback) is played.
- During a Stop / Clear Input



\* The wavy line indicates when playback is stopped.

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## - Memory Playback

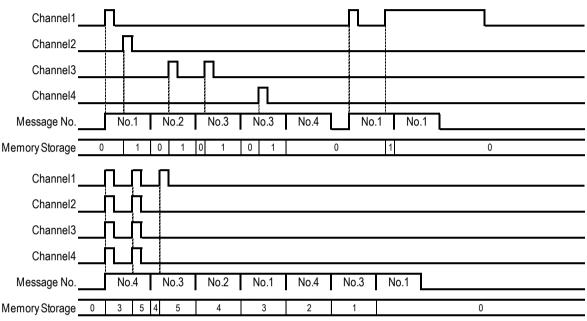
When several signal inputs (Playback) are entered during playback, the memory of up to 5 signal inputs will play the corresponding message No.

Signal inputs beyond the memory capacity is ignored.

When playback is ended, the next available channel stored in memory will play.

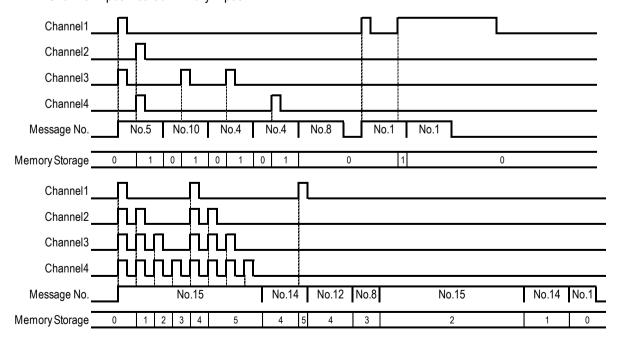
If the signal input (Playback) is a pulse input, even with the input held, the next message in memory is played back only once.

## - Channel Input Method : Bit Input



<sup>\*</sup> All channels above 5 are the same

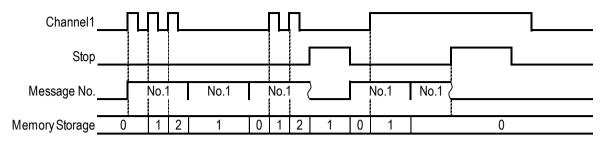
#### - Channel Input Method : Binary Input



<sup>\*</sup> All channels above 5 are the same

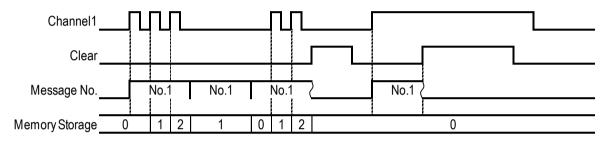
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## - During a Stop input



<sup>\*</sup> The wavy line indicates when playback is stopped.

## - During a Clear input

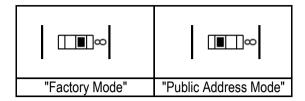


<sup>\*</sup> The wavy line indicates when playback is stopped.

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## 5-4. Sound Mode

The alarm/melody audibility reprodution can be selected with the Mode Switch (DIPSW).



- Factory Mode -- The audible sound is suitable as a warning alarm.
- PA Mode -- The audible sound is suitable for public announcements.
- \* Factory Setting: "Factory Mode"

### 5-5.MP3 Set up

The MP3 can be selected for ON/OFF with the Mode Switch (DIPSW).



- MP3 setup ON ... MP3 data + Alarm/Melody
  - MP3 data and alarm/melody data can be freely combined.
  - MP3 data can be freely written, using an SD card.
  - An alarm/melody can be selected from the built-in sounds.
  - Registration of MP3 data, and a select and registration of an alarm melody are exclusive software (PATLITE Playlist Editor 2). It carries out by using it.
  - Playback modes can be selected.
- MP3 setup OFF ... Alarm/Melody
  - The alarm/melody can be selected among the built-in sounds.
  - The 63 sounds are divided and registered into 16 kind of groups.
  - A sound group is selected with the Mode Switch (DIPSW).
  - The Playback mode is made into the hold playback mode.

Factory Setting :	EHV- 🗆 🗆 🗆	MP3 setup OFF
	$FHV ext{-}\square\square\squareM$	MP3 setup ON

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## 5-6. MP3 Data Rewriting

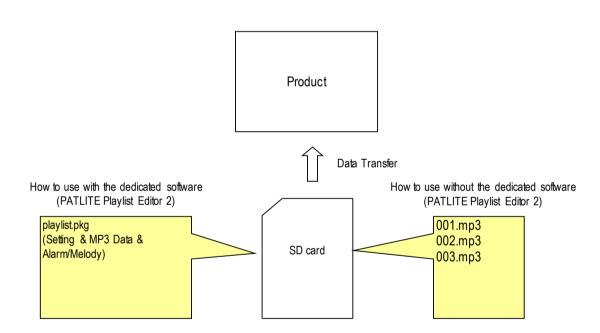
With the optional SD Card, MP3 data can be freely rewritten.

Rewriting MP3 data requires the use of dedicated software (PATLITE Playlist Editor 2) and designating a regular file name.

and designating a regular file flame.

The built-in alarm/melodysounds are not overwritten.

Item	When the dedicated software (PATLITE Playlist Editor 2) is used	When the dedicated software (PATLITE Playlist Editor 2) is used
I Playback message No	A maximum of 16 data files (It is combined freely and can playback in order)	One piece of data
Individual MP3 data settings are made	When setting up sound volume, end of playback blank-time, and Repeat Playback.	Cannot set up manually.
Channel Assignment Function	When setting up to choose "playback", "sound reduction", "stop", and "clear".	All are assigned for "playback".



Recommended SD Card: SDV-2GP (option)

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## 5-7. Channel function (Function Which Uses Exclusive Soft "PATLITE Playlist Editor 2")

Dedicated software (PATLITE Playlist Editor 2) can be used to assign functions to each signal input. In order for the channel function assignments to be used, the setup data has to be transmitted to the product via the SD Card.

If the MP3 setup mode is OFF, this function becomes invalid.

#### - Playback

The corresponding channels are played back.

#### - Sound Reduction

The volume of sound being played back is decreased.

A maximum of two sound reduction channels can be assigned.

When two sound reduction values are set up, three sound reduction levels can be made.

#### - Stop

The channel during playback is stopped.

In the Memory Playback Mode, playback is stopped and the next channel in memory is played next. A playback input is ignored during a STOP input.

#### - Clear

In the memory playback mode, all channels in memory is erased when an input occurs. In other playback modes outside memory playback, the same operation as the stop function occurs.

If simultaneous inputs for CLR and STOP occurs, priority is given to the CLR input. When channels are assigned for sound reduction, STOP, and CLR, the available number of playback channels decrease.

Example: For a maximum number of bit inputs;

channel1 - channel5 => playback
channel6 => sound reduction

channel7 => stop channel8 => clearance

In this case, the available number of playback channels is set to five.

<sup>\*</sup> Factory Setting: channels 1-8 are all set as "Playback".

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## 5-8. Sound Reduction

- (6) When Forced Playback is OFF (the function which uses exclusive soft "PATLITE Playlist Editor 2") Using the dedicated software (PATLITE Playlist Editor 2), If a signal input is assigned with the sound reduction function, the sound level of the message being played back will be reduced. (Refer to "5-7. Channel Assignment Function")

The input state for sound reduction 1 and sound reduction 2 can be set up for three steps in sound reduction. (-10dB, -20dB, -30dB)

In order for the sound reduction function to be used, the setup data to assign the channel has to be transmitted to the product via an SD card.

Sound Reduction 1	With no input	With an input	With no input	With an input
Sound Reduction 2	With no input	With no input	With an input	With an input
Sound Reduction Level	No Sound Reduction	-10dB	-20dB	-30dB

<sup>\*</sup> Factory Setting: Sound Reduction Function OFF

## - (6) Forced Playback ON

With a Forced Playback, if a signal line input occurs, the playback sound can be reduced.

The sound reduction level can be selected by the channel input.

Priority rank is channel3>channel2>channel1.

Signal Input Condition	Sound Reduction Volume					
None	No Sound Reduction					
Channel1	-10dB					
Channel2	-20dB					
Channel3	-30dB					

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## 5-9. Forced Playback

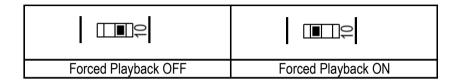
When the Forced Playback mode is turned ON, it will play back after power is supplied, even with no signal input. It can be used for testing the playback volume or when controlled by power supply start-up.

The Forced Playback is selected for ON/OFF with the Mode Switch (DIPSW).

The sound (channel) to play back can be selected by the Mode Switch (DIPSW).

MP3 setting ON: MP3 data and alarm/melody is selected with Mode Switch Numbers 1 - 6.

MP3 setting OFF: Built-in Sounds are selected with Mode Switch Numbers 1 - 6.



<sup>\*</sup> Factory Setting: Forced Playback OFF

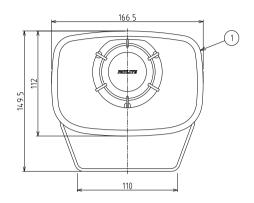
Sound Select Diagram

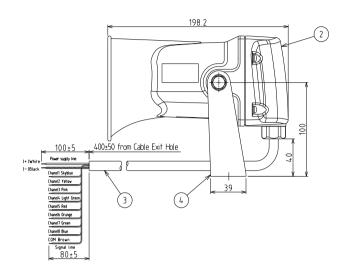
Sound Select Diagram  Mode Switch  Mode Switch														
Sound No.	4						Sound No.	Mode Switch 1 2 3 4 5						
	1	2	3	4	5	6	22	1		3	4	5	6	
2							33 34							
3	0						35	0					0	
		00							0				0	
4	0	0					36	0	0				-	
5			0				37			0			$\circ$	
6	0		0				38	0		0			0	
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9				0			41				0		0	
10	0			0			42	0			0		0	
11	_	0		0			43	_	0		0		0	
12	0	0		0			44	0	0		0		0	
13			0	0			45	_		0	0		0	
14	0		0	0			46	0		0	0		0	
15		0	0	0			47	_	0	0	0		0	
16	0	0	0	0			48	0	0	0	0		0	
17					0		49					0	0	
18	0				0		50	0				0	0	
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21			0		0		53			0		0	0	
22	0		0		0		54	0		0		0	0	
23		0	0		0		55		0	0		0	0	
24	0	0	0		0		56	0	0	0		0	0	
25				0	0		57				0	0	0	
26	0			0	0		58	0			0	0	0	
27		0		0	0		59		0		0	0	0	
28	0	0		0	0		60	0	0		0	0	0	
29			0	0	0		61			0	0	0	0	
30	0		0	0	0		62	0		0	0	0	0	
31		0	0	0	0		63		0	0	0	0	0	
32	0	0	0	0	0									

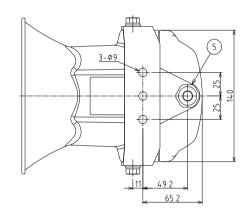
Drawing No.	Rev.	Page
EHV-W18	π	18/19

## 6. Outer Dimension Drawing

[mm]







Number	Part Names	Material	Quantity
1	Case	PC	1
2	Cover	PC	1
3	Cable	UL2464 (AWG18x2C+AWG22x9C) φ9	1*
4	Angle Bracket	SUS304 t=3.0	1
5	Waterproof Gland	PA	1

<sup>\* (3)</sup> is attached only to EHV- $\square$ H.

Drawing No.	Rev.	Page
EHV-W18	Н	19/19

7.   Sound List	<del>-</del> -									'							
102   Sutter   14   Game Intermission   26   Fur Elise   38   Anaryllis   50   NINCENTTE INIA (2) #SUTTER LOPEANER   14   Yelp   16   Jelopy Hom   28 Bach Minute in Griyl 40   Quel Lakesjde   53   Vent Formatia National   14   Yelp   16   Jelopy Hom   28 Bach Minute in Griyl 40   Quel Lakesjde   53   Vent Formatia National   15   National   15   National   16	7. Sou	_	_														
20		_	_														
Type F  Type G  Type G		-	_		_											-	
Type F   06   Redorf Chine   18   R. Revosing   30   userial bitter interfaced   25   partial Romanes   18   Mountain Musician   53   Revositor   18   Revositor   19   Train Whistle   18   Hol-Di-Li-Dia   3   Kalyuscha   56   Genesis of Aquarion   18   Train Whistle   19   Train Whistle   18   Hol-Di-Li-Dia   3   Kalyuscha   56   Genesis of Aquarion   18   Train Whistle   19   Train																63  JC	DLLY HOLIDAY
Type F    Fig.   Dec.   Melody Chime   19   Train White   31   Hol-D-Li-Da   34   Supraise Romance   54   NAMONAKU TA   Nythesized Bell   20   Train Ridge   31   Hol-D-Li-Da   34   Supraise   34   Supraise								-			_						
Synthesized Planot   19				Kapia Hi-Lo													
50	Type	, r - F															
OS   Stutter + Bell   2  Simple place from   2  4 Culdico   68 First   71 First   72 First   72 First   73 First   74 F																	
Type G   Figure   F		_															
Type G   Channel   Chann		-			-	_					_					l	
Type G   Cannell   Fur Ellise   May had a limit tame   May be a limit tame   May   Can-can   51   Nedelka   25   Spring Medody   27   May had a limit tame   49   Can-can   51   Nedelka   50   Stutter   41   Galloping H-Lo   28   Jalopy Hom   38   Campdown Races   50   Raddetky March   62   Monolity Seenade   74   Top Doorbell   39   Amaryllis   50   Raddetky March   62   Monolity Seenade   74   Top Doorbell   30   Amaryllis   50   Raddetky March   62   Monolity Seenade   74   Top Horest Revealle   29   Samkey March Chimar   41   Awa Maria																ł	
Second Group   Group A   Group B   Group C   Group D   Group C   Group B				• • • • • • • • • • • • • • • • • • • •												i	
Galloging Hi-Lo   2e   Jalogy Hom   3l   Camptown Races   50   Radetzky, March   6z   Mooright Seenade   7   Per   16   Falling Crystals   2e   Re-crossing   40   Mozard Symptowy No-40   52   Casicos Post   7   Per   No-10   7   Inverted Reveal   2e   Re-crossing   40   Mozard Symptowy No-40   52   Casicos Post   7   Per   No-10   7   Inverted Reveal   2e   Reveal   7   Per   No-10   Per			01		13	Train Ri	de	25	Spr	ng Melody						61	Nedelka
Type G  Type G		(	02		14	Galloping I	Hi-Lo				38	Camptown Rac	es 50	Radetzk	y March	62 Mc	onlight Serenade
Type G    Type G   Ty		(	03	Bell			tter	27			39	Amaryllis	51	Funiculi,	Funicula	63 WA	REWA UMINO KO
Type G  66   Melody Chima   18   Galactic Motor   30 Suntine Notice Chima   24   26 Grandflather's Clock   54   0 Vfrenell    97 Synthesized Bell   20   Two Tone   32 Ending Notice Chima   24   18 heaves that have seed 56   18 Electude Place   16 Caulifor    19 Suntine 1 February   19   19   19   19   19   19   19    19 Suntine 1 February   22   19   19   19   19   19   19   19											_	Mozart Symphony No					
Sound Group List  Sound Group																	
108 Synthesized Bell 20 TWo Trone 32 Ending Notice Chime 2 44 Processings with viscous 36 Except Plan (County) 119 Synthesized Melody 22 Rigning H-LD 31 Sammer Law 110 Synthesized Melody 22 Rigning H-LD 31 Sammer Law 112 Call Sign 22 Salactic Hovercraft 35 Annie Laurie 122 Call Sign 23 Salactic Hovercraft 35 Annie Laurie 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 24 Sammer Intermission 36 Salactic Mortan House 122 Call Sign 25 Salactic Mortan House 122 Ca	Type	( - ⊢															
Big   Suttler + Bell   Zi   Alarm Clock   33   Fure liste   45   Flea Waltz   57   Hungarian Dance No.5   10   Synthesized Mellody   22   Inaigning Hi-Lo   34   Bach Minust in fining   45   Turkey in the Straw   38   William Toll Coverture   11   Chime   23   Gallactic Hovercraft   35   Annie Laurie   47   Hungarian Dance No.5   10   Propose of Circumstance   12   Zi   Zi   Zi   Zi   Sign   24   Game Intermission   36   London Bridge is falling date   48   Zi zerok is du de metament   50   Propos and Circumstance   25	1,700	<u> </u>															
10   Synthesized Melody   22   Ringing Hi-Lo   34   Bach Minute in Gring   46   Turkey in the Stream   50   Prop and Circumstance   50   Prop   Pr																l	
15   Chime   23   Galactic Hovercraft 35   Annie Laurie   47   The blast herm of the Republic   50   Greensleeves	I															l	
Sound Group Group A Group B Group C Group D Group E Group F Group G Group H Group G Group H Group G Group B Group B Group C Group D Group E Group F Group G Group H Group G Group H Group G Group B Group C Group D Group E Group F Group G Group H Group G Group H Group G Group B Group C Group D Group E Group F Group G Group H Group G Group H Group G Group B Group G Group H Group G Group B Group G Group H Group G Group G Group B Group G Group B Group G Gr	I			•						<b>_</b>							
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Sound Type Channel Fur Elise Channel Fur Elise Channel Amaryllis Channel Chann	13	ouna G	roup						-l				ľ				
Channel   Fuzzion   Indiana   Indi	·								9					THE CO		]ლ	
Channel Channel Fur Elise Channel Chan	Sound	Type							-								
Channel3   Andideris Prayer   Camptown Races   Daydraem Believer   Channel4   Annie Laurie   Channel5   Daydraem Believer   Channel6   Annie Laurie   Channel6   Hol-Di-Li-Dia   Daydraem Believer   Velp   HATARAKU KURUMA   Daydraem Believer   Velp   Channel6   Daydraem Believer   Velp   HATARAKU KURUMA   Daydraem Believer   Velp   HATARAKU KURUMA   Daydraem Believer   Velp   Channel5   Channel5   Call Sign   Call Si				,		,			'			1 1				,	1
Channel		Chan			Mary had a little Lamb		An	naryl	lis			Spanish Romance	nish Romance Mary had a little Lar				RHYTHM AND POLICE
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Page   Channel										,							
Channel Channe	Type F																
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Channel8 Call Sign Call Sign Synthesized Bell Synthesized					Da												
Channel   Fur Elise   Bach Minuet in Gmjr   Annie Laurie   Ball   Flaa Waltz   Flaa Wal										•							
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Channel   Chan							in Lauria Landon Pridon is falling down					alloning Hi-Lo Chime					
Type G   Channel																	
Channel Mary had a little Lamb Grandfather's Clock Channel Channel Channel Channel Grandfather's Clock Channel					Moz		•										
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Channel7 Chime Chime Chime Alarm Clock Synthesized Piano Synthesized Bell Synthesized Piano				Camptown Races													
Sound Group Group Group J Group K Group L Group M Group N Group O Group P J Group N Group				<u> </u>			С	him	e								Synthesized Piano
Sound Group Group Group J Group K Group L Group M Group N Group O Group P J Group N Group		Chan	nnel8 Call Sign Call Sign		Call Sign						esized Bell	Synthesiz	ed Bell	Synthesized Bell			
Sound Type // Channel  Channel   World Protibular Aka Tombo   Banzaki Sukide Yorkatta   Mambo No.5   Channel   Genesis of Aquarion   Furusato   Galactic Hovercraft   NiNGENTTE IINA   Jalopy Horn   Banzaki Sukide   Other New Tombole Chime 2   Starting Notice Chime 2   Starting N	So												_		-	-	
Sound Type // Channel  Torkey in the Straw RHYTHM AND POLICE ZAMOKUNA TENSHMO TEEZE Galactic Hovercraft Annie Laurie Channel2 BANZAI SUKIDE YOKATTA Aka Tombo Channel3 Channel4 Genesis of Aquarion Furusato Channel5 Mambo No.5 BEAUTIFUL DREAMER Game Intermission Channel6 The Parade of the Tin Sodders Channel7 Channel7 Channel8 Stutter				■□□4		4			r	■ 4		■ 4		■ 4		4	<b>I</b>
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Channel WORLD FOOTBALL ANTHEM Turkey in the Straw RHYTHM AND POLICE ZANCOKUNA TENSHINO TEEZE Galactic Hovercraft Annie Laurie Camptown Races Daydream Believer Channel						1 1			4						l I		l I I I
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Channel5 Mambo No.5 BEAUTIFUL DREAMER Game Intermission Genesis of Aquarion ET Doorbell BANZAI SUKIDE YOKATTA WORLD FOOTBALL ANTHEM Starting Notice Chime 1 Channel6 The Parade of the Tin Soldiers JOLLY HOLIDAY Spring Melody Aka Tombo RR-crossing NAMONAKI UTA Turkey in the Straw Starting Notice Chime 2 Channel7 Starting Notice Chime 3 Ending Notice Chime 1 Ending Notice Chime 2 Jalopy Horn Train Ride Furusato Funiculi, Funicula Chime 2 Channel8 Stutter Stutter Stutter Stutter BEAUTIFUL DREAMER JOLLY HOLIDAY Call Sign Channel2 Radetzky March Channel2 Radetzky March Channel3 Funiculi, Funicula Hungarian Dance No.5 WAREWA UMINO KO Funiculi, Funicula Spring Melody Annie Laurie Amaryllis Radetzky March Channel4 Csikos Post William Tell Overture Spring Melody Nedelka Jalopy Horn Races Channel5 Polka Tramblanka Pomp and Circumstance Jalopy Horn RR-crossing ET Doorbell Tyou're Happy and You Know th Flea Waltz O Vreneli Channel7 Galactic Hovercraft Galactic Hovercraft Starting Notice Chime 2 Starting Notice Chime 2 Starting Notice Chime 2 Starting Notice Chime 2 Starting Notice Chime 1 Ending Notice Chime 1 Ending Notice Chime 2 Starting Notice Chime 1 Ending Notice Chime 1 Ending Notice Chime 1 Ending Notice Chime 1 Ending Notice Chime 2 Starting Notice Chime 1 Ending Notice Chime 2 Starting Notice Chi					гu												
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Channel 7 Galactic Hovercraft Galactic Hovercraft Starting Notice Chime 1 Ending Notice Chime 2 Starting Notice Chime 1 KAERUNO GASSHOU The Battle Hymn of the Republic Hungarian Dance No.5					_						_						
					_					Ending Notice Chir	ne 2						Hungarian Dance No.5
				Game Intermission	Ga	me Intermission	Ending N	Notice (	Chime 1	Chime		Ending Notice Chime 2	Gree	nsleeves	Can-c	can	William Tell Overture

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