SPECIFICATIONS

1. Specifications

- 1. General Specification Model	EHV-M1						
Rated Voltage	DC12 V-DC24 V						
Operating Voltage Range	DC10.8 V-DC35 V						
Rated Current Consumption Max							
Typ							
Condition							
Consumption Max							
(for NPN/No-voltage) Condition	At maximum volume and "Rapid Hi-Lo" alarm playback						
Typ							
Condition							
Consumption Max							
(for PNP/Voltage Input) Condition	At maximum volume and "Rapid Hi-Lo" alarm playback						
	4 A or less (at DC12 V)						
Inrush Current	9 A or less (at DC24 V)						
	12.5 A or less (at DC35 V)						
Operating Ambient Temperati							
Operating Ambient Humidit							
Storage Ambient Temperatu							
Storage Ambient Humidity							
Mounting Location	Indoors/Outdoors						
Mounting Location	Upright Sideways Upside-down						
Mounting Direction							
Protection Rating	IP65 (IEC 60529)						
Environmental	Upright Installation						
Condition							
Insulation Resistance	More than 1 M Ω at 500 VDC between the terminals and the chassis						
Withstand Voltage	500 VAC applied for 1 min between terminals and chassis without breaking insulation						
Vibration Resistance	45.0 m/s ² IEC 60068-2-6:2007 (Upright Position)						
Impact Resistance	250 m/s ² 6 ms for 1,000 times (3 axis 1 direction); 500 m/s ² 11 ms for 3 times (3 axis both directions) IEC 60068-2-27:2008 (Upright Position)						
Mass (Tolerance: ±10%)	1.25 kg						
Sound Pressure Level (Alar							
Sound Flessule Level (Alai	Maximum. Tro db						
, in the second s	Upright position from horn opening at a distance of 1 m						
Environmental Conditi	Upright position from horn opening at a distance of 1 m.						
Environmental Conditi	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played.						
Environmental Conditi Sound Pressure level (MP3	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played. Maximum: 105 dB						
Environmental Conditi Sound Pressure level (MP3 Environmental Conditi	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played. Maximum: 105 dB ons Volume at maximum and a 1 kHz at -6 dB sinusoidal wave played back from the horn openir						
Environmental Conditi Sound Pressure level (MP3	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played. Maximum: 105 dB Ons Volume at maximum and a 1 kHz at -6 dB sinusoidal wave played back from the horn openir Refer to 6. Outer Dimension Drawing						
Environmental Conditi Sound Pressure level (MP3 Environmental Conditi	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played. Maximum: 105 dB ons Volume at maximum and a 1 kHz at -6 dB sinusoidal wave played back from the horn openir Refer to 6. Outer Dimension Drawing EMC Directive (EN 61000-6-4, EN 61000-6-2)						
Environmental Conditi Sound Pressure level (MPC Environmental Conditi Outer Dimensions	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played. Maximum: 105 dB ons Volume at maximum and a 1 kHz at -6 dB sinusoidal wave played back from the horn openir Refer to 6. Outer Dimension Drawing EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581)						
Environmental Conditi Sound Pressure level (MP3 Environmental Conditi	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played. Maximum: 105 dB Ons Volume at maximum and a 1 kHz at -6 dB sinusoidal wave played back from the horn openin Refer to 6. Outer Dimension Drawing EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581) UL 464, CSA-C22.2 No. 205-M1983						
Environmental Conditi Sound Pressure level (MPC Environmental Conditi Outer Dimensions	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played. Maximum: 105 dB Ons Volume at maximum and a 1 kHz at -6 dB sinusoidal wave played back from the horn openir Refer to 6. Outer Dimension Drawing EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581) UL 464, CSA-C22.2 No. 205-M1983 FCC Part15 SubpartB Class A						
Environmental Conditi Sound Pressure level (MPC Environmental Conditi Outer Dimensions	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played. Maximum: 105 dB Ons Volume at maximum and a 1 kHz at -6 dB sinusoidal wave played back from the horn openin Refer to 6. Outer Dimension Drawing EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581) UL 464, CSA-C22.2 No. 205-M1983						
Environmental Conditi Sound Pressure level (MP3 Environmental Conditi Outer Dimensions Conformity Standards	Upright position from horn opening at a distance of 1 m. Volume at maximum and "Stutter" alarm played. Maximum: 105 dB Maximum and a 1 kHz at -6 dB sinusoidal wave played back from the horn openir Refer to 6. Outer Dimension Drawing EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581) UL 464, CSA-C22.2 No. 205-M1983 FCC Part15 SubpartB Class A KC (KN22, KN24)						

. - 1-

Model					EHV-M2				
Rated Voltage			AC100 V-AC240 V (50/60 Hz)						
Operating					AC90 V-AC264 V (50/60 Hz)				
Rated Current C				150 mA					
		Тур.	5.3 W (at AC240 V)						
Rated P	ower	Conditions		Volume at maxim	num and a 1 kHz at -6 dB sinusoidal wave played back				
Consum	ption	Max.		Volume at maxim	7.9 W (at AC264 V)				
(for NPN/No-	-voltage)	Conditions	At maximum volume and "Rapid Hi-Lo" alarm playback						
Conditions									
loru	sh Currer	ht.		6 A or less (at AC100 V) 15 A or less (at AC240 V)					
iniu		n.			23 A or less (at AC240 V)				
Operating Ar	mbiont To	mporatura			-20 °C to +50 °C				
					Less than 85 % (No condensation)				
Operating A					-30 °C to +60 °C				
Storage Am									
Storage A					Less than 85 % (No condensation)				
Moun	ting Loca	tion			Indoors/Outdoors				
				Upright	Sideways Upside-down				
Mount	Mounting Direction								
Protection Rating					IP65 (IEC 60529)				
	Environmental				Upright Installation				
	Cond	ition							
Insulatio	on Resist	ance		More than 1 MΩ	Ω at 500 VDC between the terminals and the chassis				
Withst	tand Volta	age	150	0 VAC applied for 1 m	nin between terminals and chassis without breaking insulation				
Vibratio	on Resista	ance	45.0 m/s ² IEC 60068-2-6:2007 (Upright Position)						
Impac	t Resista	nce	250 m/s ² 6 ms for 1,000 times (3 axis 1 direction); 500 m/s ² 11 ms for 3 times (3 axis both directions) IEC 60068-2-27:2008 (Upright Position)						
Mass (To	lerance: :	±10%)	1.25 kg						
Sound Pres	sure Leve	el (Alarm)			Maximum: 110 dB				
				Upriaht pa	osition from horn opening at a distance of 1 m.				
Er	nvironmenta	I Conditions	Volume at maximum and "Stutter" alarm played.						
Sound Pressure level (MP3)			Maximum: 105 dB						
Environmental Conditions Outer Dimensions			1 churre		Refer to 6. Outer Dimension Drawing				
Outer					UL 464, CSA-C22.2 No. 205-M1983				
Complia	ince Stan	darde			FCC Part15 Subpart B Class A				
Compila	uite Stall	ualus			KC (KN22, KN24)				
R	Remarks		_		UL Listed (File No.S24210)				
		•	I here	are no contents of cont	ntrolled substances exceeding the threshold for the RoHS Directive				
No.EHV-W	18E-2_1	8							

PATLITE Corporation

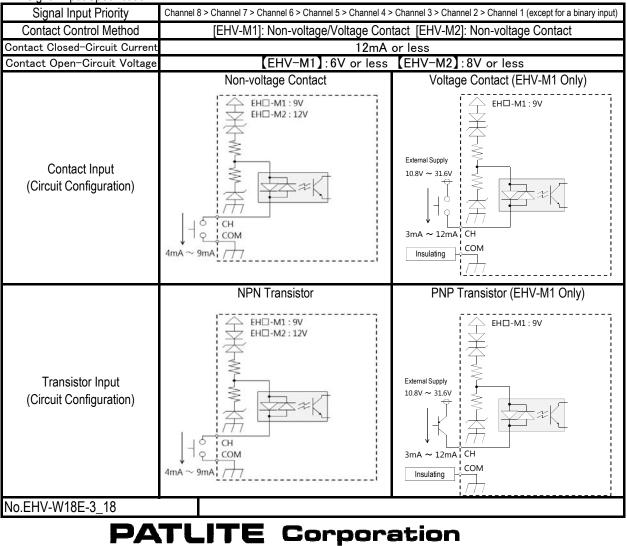
1-2. Performance Specifications

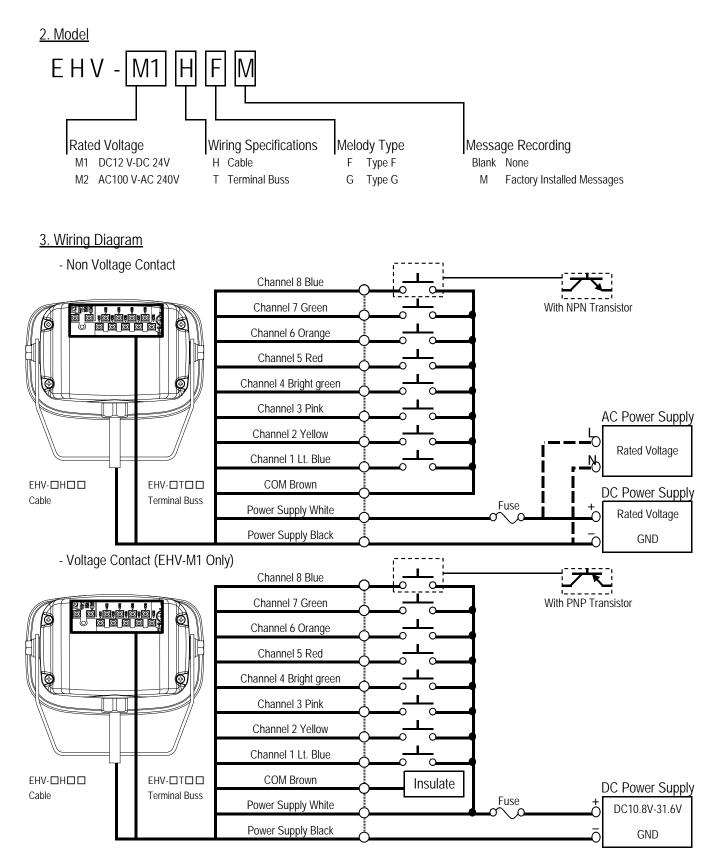
MP3 Mode Switch Condition	MP3 setting ON	MP3 setting OFF			
	Volume Adjustable: Min Max.				
Volume Control	Sound Reduction Input: It is a value specified as a reduction from the currently adjusted volume. (None, -10 dB, -20 dB, -30 dB selection)	-			
Sound Playback	MP3 data / Alarm/Melody (Standard)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

1-3. MP3 Data Specification

Playback File	MPEG1-Audio Layer III (MP3, Fs:44.1kHz)
Bit Rate	32 Kbit/s, 64 Kbit/s (Standard), 128 Kbit/s
DIL Rale	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 Mamory Cord	SD Card/SDHC Card
Supported Memory Card	Recommended Parts: SDV-2GP (option)
SD Card Format	FAT 16, 32
Supported Application	PATLITE Playlist Editor 2
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

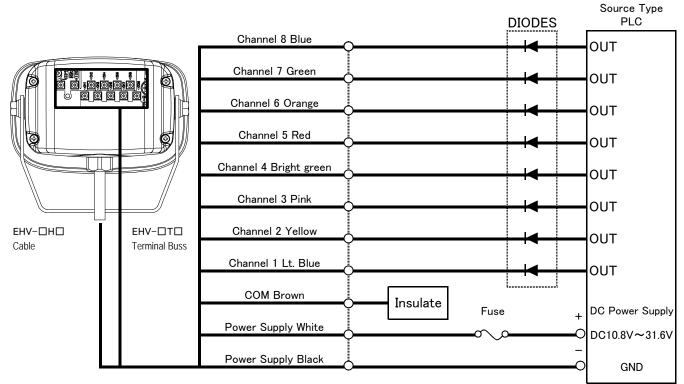




* Each channel color is indicated by the cable or lead wire.

* Voltage contact input should be in the range of DC10.8 V to DC31.6 V.

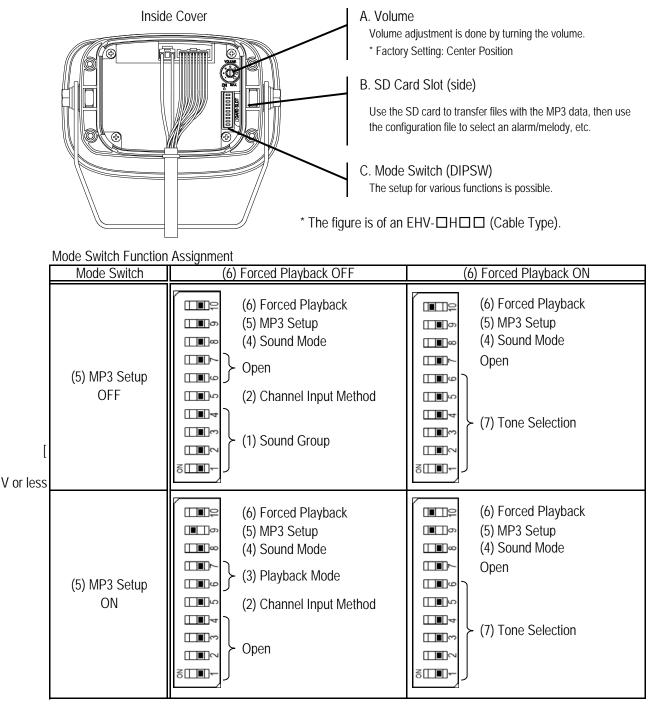
* When using the Terminal type model, round terminals with M3 insulated coating is recommended when wiring to the Terminal. Recommended Parts: J.S.T. Manufacturing Co., Ltd. N1.25-3 (article corresponding to RoHS) When connecting a Source-type PLC, be sure to insert a diode as indicated in the drawing below. Failure to insert a diode will lead to possible malfunction.



XSelect a diode with ratings indicated below.

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

4. Part Names and Functions



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	Refer to "5-9. Forced Playback."
(7) Tone Selection	Playback Sound Selection	TOTEL TO 3-7. FUILED FLAYDACK.

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.

* Factory Setting: Group A

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.

പ	
Bit	Binary

* Factory Setting : EHV-

... Bit ... Specified Messages less than 8: Bit

Specified Messages greater than 9: Binary

Binary Input Table

2 3 4 5 6 7 0 8 9 0 10 11 0 12 13 0 14	1 0 0 0	2 0 0	3	4	5	6	7	8	Sound No.	4		•		-		_	
2 3 4 5 6 7 0 8 9 0 10 11 0 12 13 0 14	0					-	1	Ŏ		1	2	3	4	5	6	7	8
3 C 4 5 C 6 7 C 8 9 C 10 11 C 12 13 C 14 7 C	0								33	0					0		
4 5 C 6 7 C 8 9 C 10 11 C 12 13 C 14 6 14	0	0							34		0				0		
5 C 6 7 C 8 9 C 10 11 C 11 C 12 13 C 14									35	0	0				0		
5 C 6 7 C 8 9 C 10 11 C 11 C 12 13 C 14			0						36			0			0		
7 0 8 9 0 10 11 0 11 0 12 13 0 14			0						37	0		0			0		
8 9 10 11 12 13 14		0	0						38		0	0			0		
9 0 10 11 0 12 13 0 14	0	0	0						39	0	0	0			0		
10 11 C 12 13 C 14				0					40				0		0		
11 C 12 13 C 14	0			0					41	0			0		0		
12 13 14		0		0					42		0		0		0		
13 C 14	0	0		0					43	0	0		0		0		
14			0	0					44			0	0		0		
	0		0	0					45	0		0	0		0		
15 (0	0	0					46		0	0	0		0		
	0	0	0	0					47	0	0	0	0		0		
16					0				48					0	0		
	0				0				49	0				0	0		
18		0			0				50		0			0	0		
	0	0			0				51	0	0			0	0		
20			0		0				52			0		0	0		
	0		0		0				53	0		0		0	0		
22		0	0		0				54		0	0		0	0		
	0	0	0		0				55	0	0	0		0	0		
24				0	0				56				0	0	0		
	0			0	0				57	0			0	0	0		
26		0		0	0				58		0		0	0	0		
	0	0		0	0				59	0	0		0	0	0		
28			0	0	0				60			0	0	0	0		
	0		0	0	0				61	0		0	0	0	0		
30		0	0	0	0				62		0	0	0	0	0		
			0	0	0				63	0	0	0	0	0	0		
32	0	0	U	U	0				00	~	0	0	0	U	0		

O -- Switch ON

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.

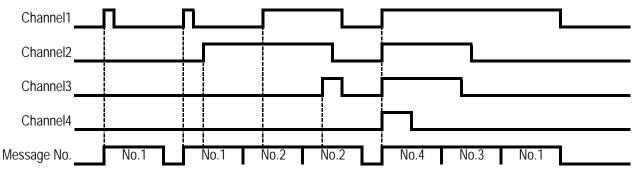
	→	ے 19	 ₽9
Normal Playback	Input Priority Playback	Hold Playback	Memory Playback

* Factory Setting : Normal Playback

- Normal Playback

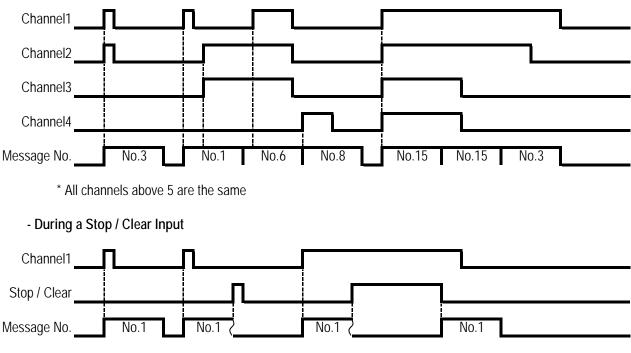
If a signal input (Playback) is a pulse input, playback is ended as soon as the pulse input is off. The signal input (Playback) is maintained only when the input is held on. The signal input (Playback) becomes invalid during playback.

- Channel Input Method : Bit Input



* All channels above 5 are the same

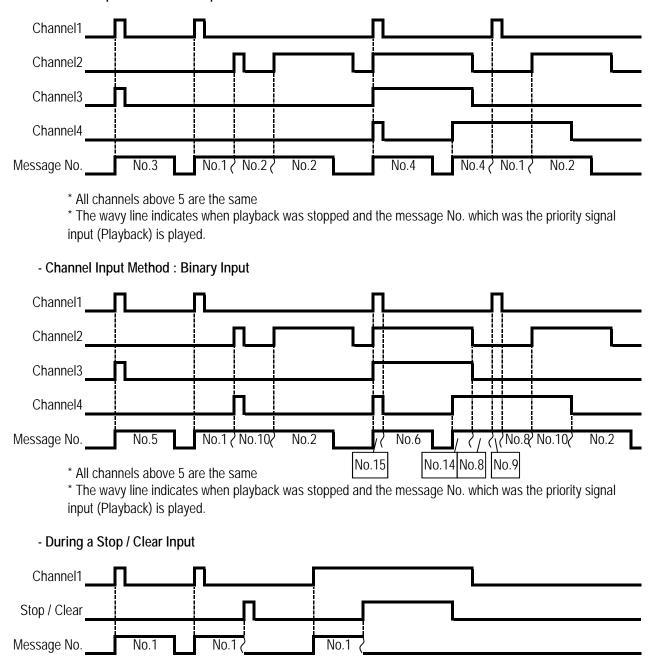
- Channel Input Method : Binary Input



- 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

- Hold Playback

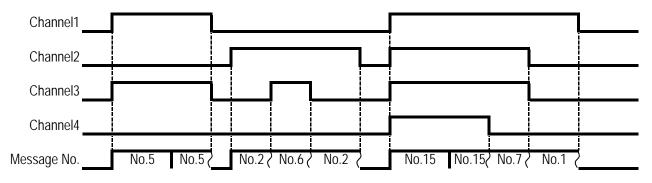
It only plays back while the signal input (Playback) is maintained. Playback is stopped when the signal input (Playback) is removed. Repeated playback is done by maintaining a signal input (Playback). It does not play back if a signal input (Playback) is a pulse input.

- 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.

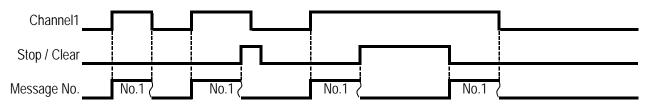
- Channel Input Method : Binary Input



* 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



- 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.

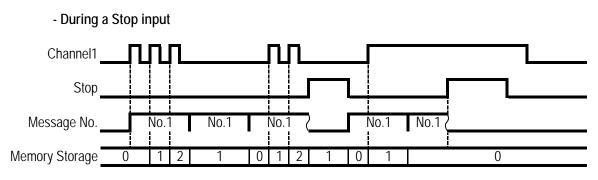
Channel1	
Channel2	
Channel3	
Channel4	
Message No.	No.1 No.2 No.3 No.4 No.1 No.1
Memory Storage	0 1 0 1 0 1 0 1 0 1 0
Channel1	
Channel2	
Channel3	
Channel4	
Message No.	No.4 No.3 No.2 No.1 No.4 No.3 No.1
Memory Storage	0 3 5 4 5 4 3 2 1 0
* All	I channels above 5 are the same

- Channel Input Method : Bit Input

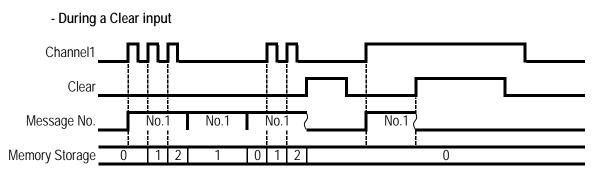
- Channel Input Method : Binary Input

Channel1			
Channel2	ſ		
Channel3			
Channel4			
Message No.	No.5 No.10 No.4 No.4	No.8 No.1 No.1	1
Memory Storage	0 1 0 1 0 1 0 1	0 1	0
Channel1			
Channel2			
Channel3			
Channel4			
Message No.	No.15 No.14	No.12 No.8	lo.15 No.14 No.1
Memory Storage	0 1 2 3 4 5 4 5	4 3	2 1 0

* All channels above 5 are the same



* The wavy line indicates when playback is stopped.



5-4. Sound Mode

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

□□□∞	∞
"Factory Mode"	"Public Address Mode"

- 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 Setup

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

∏∎]ஏ	□ ∎_]_0
MP3 setting OFF	MP3 setting ON

- 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.

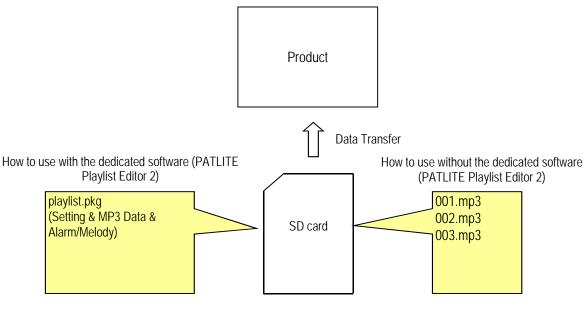
* Factory Setting :	EHV-	MP3 setup OFF
	EHV-	MP3 setup ON

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.

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 not used
The number of MD2 data ner	A maximum of 16 data files (It is combined freely and can playback in order)	One piece of data
5	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)

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.

* Factory Setting : channels 1-8 are all set as "Playback".

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

* 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

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.

₽	
Forced Playback OFF	Forced Playback ON

* Factory Setting: Forced Playback OFF

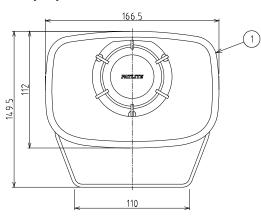
Sound Select Diagram													
Sound No.				Switc	h		Sound No.			Node	Switcl	า	
Sound No.	1	2	3	4	5	6		1	2	3	4	5	6
1							33						0
2	0						34	0					0
3		0					35		0				0
4	0	0					36	0	0				0
5			0				37			0			0
6	0		0				38	0		0			0
7		0	0				39		0	0			0
8	0	0	0				40	0	0	0			0
9				0			41				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
19		0			0		51		0			0	0
20	0	0			0		52	0	0			0	0
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	1	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		() ¹						_

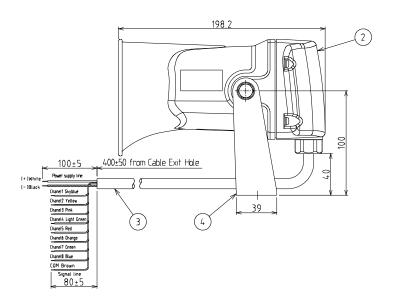
Sound Select Diagram

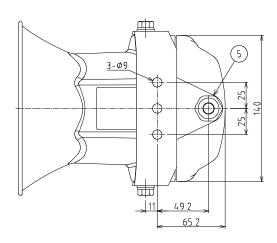
O -- Switch ON

6. Outer Dimension Drawing









Number	Part Names	Material	Quantity
1	Case	PC	1
2	Cover	PC	1
3	Cable	VCTF (2x0.74 mm ² / 9x0.3 mm ²) phi9	1*
4	Angle Bracket	SUS304 t=3.0	1
5	Waterproof Gland	PA	1

* (3) is attached only to EHV- \Box H.

<u>7. Soun</u>	id Lis	st													
		01	Веер	13 Galactic H	overcraft	25	Ending	Notice Chime 2	37	Daydream Belie	ver 49	HATARAK	U KURUMA 6	1	Furusato
		02	Stutter	14 Game Inte	rmission	26		Fur Elise	38		50	NINGEN	TTE IINA 6	2 BE	AUTIFUL DREAMER
		03	Bell	15 Spring I	/lelody	27	A Ma	iden's Prayer	39	Mozart Symphony No			inson 6	3 J	OLLY HOLIDAY
		04	Yelp	16 Jalopy	Horn			Minuet in Gmjr	40				BALL ANTHEM		
		05	Rapid Hi-Lo	17 ET Do	orbell	29	Ar	nnie Laurie	41	Mountain Musici	an 53	BANZAI SUK	IDE YOKATTA		
Туре	F	06	Melody Chime	18 RR-cro	ssing			Bridge is falling down					AKI UTA		
турс	'	07 S	Synthesized Piano	19 Train V	/histle	31		ol-Di-Li-Dia	43	Katyuscha	55	Genesis c	of Aquarion		
		08	Synthesized Bell	20 Train	Ride	32	Mary h	nad a little Lamb	44	Grandfather's Clo	ock 56	Mamb	o No.5		
		09	Stutter + Bell	21 Starting Noti		33		ptown Races	45		57		the Tin Soldiers		
		10 S	ynthesized Melody	22 Starting Noti	ce Chime 2	34		Cukkoo		RHYTHM AND POL		Turkey in	the Straw		
		11	Chime	23 Starting Noti	ce Chime 3			e Blacksmith		ZANKOKUNA TENSHINO TI			Tombo		
		12	Call Sign	24 Ending Notic	e Chime 1	36	On the	Avignon Bridge	48	MAJINGAA ZET	TO 60	Funiculi,	Funicula		
		01	Beep	13 Train	Ride	25		ring Melody	37	Mary had a little La	mb 49	Car	i-can 6		Nedelka
		02	Stutter	14 Gallopin	g Hi-Lo	26	Ja	alopy Horn	38			Radetzk	ky March 6	2 Mo	onlight Serenade
		03	Bell	15 Alien C	hatter	27		T Doorbell	39		51	Funiculi,	Funicula 6	3 W/	AREWA UMINO KO
		04	Yelp	16 Falling C	rystals	28	RI	R-crossing		Mozart Symphony No	0.40 52		s Post		
		05	Rapid Hi-Lo	17 Inverted	Reveille	29	Starting	g Notice Chime 1	41	Ave Maria	53	Polka Tr	amblanka		
Туре	C	06		18 Galactio		30	Starting	g Notice Chime 2	42	Grandfather's Clo			reneli		
Type	G	07 S	Synthesized Piano	19 Ringing	Phone			Notice Chime 1	43	The Parade of the Tin Sol	diers 55	KAERUNO	GASSHOU		
		08	Synthesized Bell	20 Two	one			Notice Chime 2	44	If You're Happy and You Kn	ow It 56	El Condor Pa	asa (If I Could)		
		09	Stutter + Bell	21 Alarm		33		Fur Elise	45			Hungarian			
		10 S		22 Ringing				Minuet in Gmjr	46	Turkey in the Str					
		11	Chime	23 Galactic H	overcraft	35	Ar	nnie Laurie	47	The Battle Hymn of the Rep	ublic 59	Pomp and (Circumstance		
		12	Call Sign	24 Game Inte	rmission	36	London I	Bridge is falling down	48	J'ai perdu le do de ma clari	nette 60	Green	sleeves		
Sound (Grou	p Li	st												
				Group B	G	oup	10	Group D		Group E	G	oup F	Group G	;	Group H
\sim	Sound	Grou												,	
Channel	Sound Type			≈]∾ 1—	~ 		~ II I			~ 		
Charliner	Char	nnel1	Fur Elise	Mary had a little La			yllis	Grandfather's C	lock		-	d a little Lamb			RHYTHM AND POLICE
		nnel2		Camptown Rac			iony No.40			Camptown Races		ymphony No.40			ZANKOKUNA TENSHINO TEEZE
		nnel3	,	Cukkoo			keside					Di-Li-Dia	Bell		MAJINGAA ZETTO
C		nnel4	Annie Laurie							-	Daydream Believer				HATARAKU KURUMA
Type F		Innel5 London Bridge is falling dowr		0		Spanish Romance				Stutter + Bell	,		Rapid Hi-	Lo	NINGENTTE IINA
		nnel6	Hol-Di-Li-Dia	Daydream Belie	ver Ka	tyus	scha	Yelp		Synthesized Melody	Melody Chime		Melody Ch		Robinson
	Char	nnel7	Chime	Chime		Chime		Synthesized Piano		Synthesized Piano	,		Synthesized I	Piano	Synthesized Piano
	Char	nnel8	Call Sign	Call Sign	Ca	all S	lign	Synthesized Bell		Synthesized Bell	Synthe	esized Bell	Synthesized Bel		Synthesized Bell
		annel1 Fur Elise B		Bach Minuet in G	mjr Fu	ir E	lise			Train Ride		id Hi-Lo	Beep		The Parade of the Tin Soldiers
		nnel2			Annie Laurie London Brid								Stutter		If You're Happy and You Know It
		nnel3		,						Inverted Reveille			Bell		Flea Waltz
Type G		nnel4						Galactic Motor		Galactic Motor	0 0				Turkey in the Straw
71		nnel5		Grandfather's Clo				Ringing Phone		Alarm Clock			Rapid Hi-Lo		The Battle Hymn of the Republic
		nnel6		Ave Maria						Ringing Hi-Lo Synthesized Piano		sized Melody			J'ai perdu le do de ma clarinette
		nnel7 nnel8			Chime Alarm Clock all Sign Ringing Hi-Lo									Synthesized Piano Synthesized Bell	
						iii J Iou	-		_U	Group M		oup N			Group P
	S	ound	G _{roup} Group I I ाण्य⊸I	Group J		ouµ ∎□□		Group L			U I	oup N IIIII⊲	Group C	,	
Sound Ty	pe / 🔨														
Channel	Char	nn_11	WORLD FOOTBALL ANTHEM	Turkey in the Str			- D POLICE	ZANKOKUNA TENSHINO	TEE 7F	Galactic Hovercraft	_		armetown R	2000	a∎⊡
		nnel1 nnel2		Turkey in the Str Aka Tombo			E YOKATTA			Galactic Hovercraft Game Intermission		ie Laurie ^{dge is falling down}			Daydream Believer Amaryllis
		nnel3		Funiculi, Funici			No.5	HATARAKU KUR		Spring Melody		Di-Li-Dia			Mozart Symphony No.40
		nnel4		Furusato				NINGENTTE I		1 3 3		d a little Lamb	-		
Type F		nnel5		BEAUTIFUL DREAM				Genesis of Aqua		ET Doorbell	-	UKIDE YOKATTA		-	Starting Notice Chime 1
		nnel6		JOLLY HOLID			lelody	Aka Tomb		RR-crossing					Starting Notice Chime 2
		nnel7	Starting Notice Chime 3	Ending Notice Chim		-	e Chime 2			Train Ride		rusato	Funiculi, Fun		Chime
		nnel8	Stutter	Stutter	-	Stutt		Stutter		Stutter		UL DREAMER			
		nnel1		KAERUNO GASSH	ou N	ede	lka	The Parade of the Tin S	oldiers	Galactic Hovercraft		r Elise	Mary had a little		Ave Maria
		nnel2	,	El Condor Pasa (If I Co	uld) Moonlig	jht S	erenade	J'ai perdu le do de ma cla	rinette	Game Intermission	Bach M	inuet in Gmjr			Grandfather's Clock
		nnel3		Hungarian Dance N				Funiculi, Funic	cula	Spring Melody		ie Laurie	Amarylli		Radetzky March
Type G		nnel4		William Tell Overt		-	lelody	Nedelka		Jalopy Horn			Mozart Symphony		
0 946		nnel5					Horn	RR-crossin	<u> </u>	ET Doorbell		ppy and You Know It	Flea Wal		O Vreneli
		nnel6		Greensleeve			orbell	Starting Notice Chi				kos Post	,		El Condor Pasa (If I Could)
		nnel7	Galactic Hovercraft				e Chime 1	Ending Notice Chi	me 2	Starting Notice Chime 1		IO GASSHOU			Hungarian Dance No.5
	Char	nnel8	Game Intermission	Game Intermiss	on Ending I	Votice	e Chime 1	Chime	_	Ending Notice Chime 2	Gree	nsleeves	Can-car)	William Tell Overture
Althou	igh cor	oyrigh	t licensing has bee	en acquired for	the F typ	e in	Japan	for our compa	any,	since the copyrig	ht licer	nsing for co	ountries outs	ide J	apan has not
		b	een acquired, if use	ed in countries	other that	n Ja	apan, t	here is a nece	ssit	y to acquire copyr	ight lic	ensing for	the custome	r.	
		_				-			-					_	

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