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SPECIFICATIONS				

## 1. Specifications 1-1. General Specification

1-1. General Specificat						
Product Nan	ne	Annunciator				
Model		EHV-M1				
Rated Voltag		DC12 V-DC24 V				
Operating Voltage	e Range	DC10.8 V-DC35 V				
Rated Current Consumption	Max.		480 mA			
Rated Power	Тур.	4.0 W (at DC12 V)				
	Conditions	Volume at maximum and a 1 kHz at -6 dB sine wave played back		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	n playback		
Dated Dawar	Тур.		5.0 W (at DC12 V)			
Rated Power	Conditions	Volume at ma:	ximum and a 1 kHz at -6 dÉ sine wa	ve played back		
Consumption	Max.		8.0 W (at DC31.6 V)			
(for PNP/Voltage Input)	Conditions	At maxim	num volume and "Rapid Hi-Lo" alarm	n plavback		
			4 A or less (at DC12 V)			
Inrush Curre	nt		9 A or less (at DC24 V)			
			12.5 A or less (at DC35 V)			
Operating Ambient Te	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			
		Upright	Sideways	Upside-down		
Mounting Direction						
Protection Ra	tina	IP65 (IEC 60529)				
	ental Condition		Upright Installation			
Insulation Resis		More than 1 MC	2 at 500 VDC between the terminals	and the chassis		
Withstand Vol			in between terminals and chassis w			
Vibration Resis			n/s <sup>2</sup> IEC 60068-2-6:2007 (Upright Pc			
		250 m/s <sup>2</sup> 6 ms for 1.000 time	s (3 axis 1 direction); 500 m/s <sup>2</sup> 11 ms for 3	3 times (3 axis both directions)		
Impact Resista	ance		EC 60068-2-27:2008 (Upright Positic	. ,		
Mass (Tolerance	Mass (Tolerance ±10%)		1.25 kg	/		
Sound Pressure Lev		Maximum: 110 dB				
	onmental	Upright position from horn opening at a distance of 1 m.		nce of 1 m.		
	ndition	Volume at maximum and "Stutter" alarm played.				
Sound Pressure Le		Maximum: 105 dB				
Environmental		Volume at maximum and a 1kHz at -6dB sine wave played back from the horn opening				
Outer Dimens		Refer to 6. Outer Dimension Drawing				
		EMC Directive (EN 61000-6-4, EN 61000-6-2)				
		RoHS Directive (EN IEC 63000)		/		
Conformity Star	ndards		UL 464, CSA-C22.2 No. 205			
		FCC Part15 SubpartB Class A				
		KC (KN35, KN32)				
<b>_</b>			UL Listed (File No.S24210)			
Remarks						

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Product Nan	ne		Annunciator			
Model				EHV-M2		
Rated Voltag	ne			AC100 V-AC240 V (50/60 Hz)		
Operating Voltage		AC90 V-AC264 V (50/60 Hz)				
Rated Current Consumption			150 mA			
	Тур.		5.3 W (at AC240 V)			
Rated Power	Conditions	Volume at max	kimum and a 1 kHz at -6 dB sine wa	ve plaved back		
Consumption	Max.		7.9 W (at AC264 V)	<b>,</b>		
(for NPN/No-voltage)	Conditions	At maxim	um volume and "Rapid Hi-Lo" alarm	playback		
			6 A or less (at AC100 V)			
Inrush Curre	nt		15 A or less (at AC240 V)			
			23 A or less (at AC264 V)			
Operating Ambient Te	emperature		-20 °C to +50 °C			
Operating Ambient			Less than 85 % (No condensation)			
Storage Ambient Te			-30 °C to +60 °C			
Storage Ambient H			Less than 85 % (No condensation)			
Mounting Loca			Indoors/Outdoors			
		Upright	Sideways	Upside-down		
Mounting Direc	ction					
Protection Ra	ting	IP65 (IEC 60529)				
Environme	ntal Condition		Upright Installation			
Insulation Resis	tance		at 500 VDC between the terminals			
Withstand Vol	tage	1500 VAC applied for 1 n	nin between terminals and chassis w	vithout breaking insulation		
Vibration Resist	tance	45.0m	n/s <sup>2</sup> IEC 60068-2-6:2007 (Upright Pc	sition)		
Impact Resista	ance		s (3 axis 1 direction); 500 m/s² 11 ms for 3	· · · · · · · · · · · · · · · · · · ·		
-		IE	C 60068-2-27:2008 (Upright Positio	n)		
Mass (Tolerance			1.25 kg			
Sound Pressure Lev		Maximum: 110 dB				
	onmental	Upright position from horn opening at a distance of 1 m.				
	ndition	Volume at maximum and "Stutter" alarm played.				layed.
Sound Pressure Le	1 /	Maximum: 105 dB				
Environmental		Volume at maximum and a 1 kHz at -6 dB sine wave played back from the horn opening				
Outer Dimens	ions	Refer to 6. Outer Dimension Drawing				
			UL 464, CSA-C22.2 No. 205			
Conformity Star	ndards	FCC Part15 Subpart B Class A				
			KC (KN35, KN32)			
Remarks			UL Listed (File No.S24210)	held for the Dello Direct"		
There are no contents of controlled substances exceeding the threshold for the Rol		noia for the ROHS Directive.				

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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	
Playback Mode	normal playback / input priority playback / hold playback / memory playback Mode Switch (DIPSW) Selection Possible.	Hold Playback
Playback start-up time	300 ms or less (Signal Inpu	t and Power Supply Startup)

#### 1-3.MP3 Data Specification

Playback File	MPEG1-Audio Layer III (MP3, Fs:44.1kHz)
Dit Data	32 Kbit/s, 64 Kbit/s (Standard), 128 Kbit/s
Bit 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



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\* 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



#### A. Volume

Volume adjustment is done by turning the volume. \* Factory Setting: Center Position

- B. SD Card Slot (side) Use the SD card to transfer files with the MP3 data, then use the configuration file to select an alarm/melody, etc.
- C. Mode Switch (DIPSW)

The setup for various functions is possible.

\* The figure is of an EHV- $\Box$ H $\Box$  (Cable Type).

#### Mode Switch Function Assignment

Mode Switch	(6) Forced Playback OFF	(6) Forced Playback ON
(5) MP3 Setup OFF	(6) Forced Playback     (5) MP3 Setup     (4) Sound Mode     (1) Sound Input     (2) Channel Input     Method     (1) Sound Group	Image: 6) Forced Playback     Image: 5) MP3 Setup     Image: 6) Forced Playback     Image: 6) MP3 Setup     Image: 6) Forced Playback     Image: 6) MP3 Setup     Image: 6) MP3 Setup     Image: 6) Forced Playback     Image: 6) MP3 Setup     Image: 6) MP3 Setup     Image: 6) Porced Playback     Image: 6) P
(5) MP3 Setup ON	(6) Forced Playback     (5) MP3 Setup     (4) Sound Mode     (5)     (2) Channel Input     Method     (1)     (2) Channel Input     (3)     (2)     (3)     (4)     (2)     (3)     (3)     (4)     (2)     (3)     (4)     (5)     (7)     (8)     (9)     (10)	Image: Constraint of the sector of the se

### 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	Relei to 5-3. Folded 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.

\* 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.

ىم∐∎]	ي 1
Bit	Binary

...

\*Factory Setting:EHV-

Bit

Specified Messages Less than 8:Bit Specified Messages greater than 9:Binary

Binary Ing	out Ta	able															
Sound No.					nnel				Sound No.					nnel			
Sound No.	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
1	0								33 34	0					0		
2		0							34		0				0		
3	0	0							35	0	0				0		
4			0						36			0			О		
5	0		0						37	0		0			О		
5 6		0	0						38		0	0			0		
7	0	0	0						36 37 38 39	Ο	0	0			0		
8				0					40				Ο		0		
<u>8</u> 9	Ο			Õ					41	Ο			Ō		Ō		
10		Ο		Ŏ					42		Ο		Ŏ		Ŏ		
11	0	Ŏ		Ŏ					43	0	Ŏ		Ŏ		Ŏ		
12	-	-	0	Ŏ					44		-	Ο	Ŏ		Ŏ		
13	0		ŏ	ŏ					45	0		ŏ	ŏ		ŏ		
14		0	ŏ	ŏ					46	ŏ	0	ŏ	ŏ		ŏ		
15	0	ŏ	ŏ	ŏ					47	ŏ	ŏ	ŏ	ŏ		ŏ		
16					0				48	$\sim$	<u> </u>	0		0	ŏ		
17	0				ŏ				49	0				ŏ	ŏ		
18		0			ŏ				50	ŏ	0			ŏ	ŏ		
10	0	ŏ			ŏ				51	ŏ	ŏ			ŏ	ŏ		
20			0		ŏ				52	ŏ	ŏ	0		ŏ	0		
20 21	0		0		0				53	ŏ	ŏ	0		ŏ	0		
21		0	0		0				53	0	0	0		ŏ	0		
22 23	0	0	0		0				55	ŏ	0	0		0	0		
23	0	0	0		00				<u> </u>		0	0	$\sim$				
24	$\sim$			~					56				00	0	0		
25	0			0	0				57	0	~		0	0	0		
26		0		0	0				58		0		0	0	0		
24 25 26 27 28	0	0		0	0				59	0	0	~	0	0	0		
28			0	0	0				60			0	0	0	0		
29	0		0	0	0				61	0		0	0	0	0		
30		0	0	0	0				62		0	0	0	0	0		
31	0	0	Õ	0	0				63	Ο	0	0	0	0	0		
32						0											
O Switc	h ON					_											

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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.

6 7	6 7	       	6 7
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



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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 Metho	od : Bit Input		
Channel1		ſ	ŗ
Channel2		<u>L</u>	
Channel3			
Channel4		h	
Message No. No.	o.3 No.1 { No.2 { No.2	2 No.4	No.4 2 No.1 2 No.2
* The wavy lin	above 5 are the same ne indicates when playback was gnal input (Playback) is played.	stopped and the messag	e No. which was
- Channel Input Metho	od : Binary Input		
Channel1	ŗ	ſ	<u>ſ</u>
Channel2		╼╍┷╡	┑╫╻───┖
Channel3		İ	
Channel4	h_	İİ	<b>┌┼┼┼┼╌</b> ┓ <u></u>
Message No. No.	o.5 No.1 ( No.10( No.2	2 / No.6	/ </ No.8 No.10 No.2</td
* The wavy lin	above 5 are the same ne indicates when playback was gnal input (Playback) is played.		4 No.8 No.9 e No. which was
- During a Stop / Clea	ır Input		
Channel1	ſ		¬
Stop / Clear	₽		1
Message No. No.	lo.1 No.1 2	No.1 (	

\* 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

Channel1	ļ					1
Channel2						
Channel3		╧╧┎╌┑			— <u> </u>	
Channel4					1	
Message No.	No.1 No.1 (	No.2 < No.3 <	No.2 {	No.4 No.4	<pre></pre>	2
* The way	nels above 5 are the vy line indicates whe led signal input (Pla	en playback was st	opped and the	message No. whi	ch was	
- Channel Input M	lethod : Binary Inpu	t				
Channel1						<u> </u>
Channel2						
Channel3	į				— <u> </u>	
Channel4					<b>1</b>	<u> </u>
Message No.	No.5 No.5 (	No.2 < No.6 <	No.2 <	No.15 No.15	X No.7 X No.1	2
* The way	nels above 5 are the vy line indicates whe ged signal input (Pl	en playback was st	opped and the	message No. whi	ch was	
- During a Stop /	Clear Input					
Channel1					7	
Stop / Clear						

\* The wavy line indicates when playback is stopped.

No.1

No.1

Message No.

## **PATLITE** Corporation

No.1

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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

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
Channel1	ллл
Channel2	<u>hh</u> ]
Channel3	<u>h h </u>
Channel4	<u>h</u> h]
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	channels above 5 are the same
- Channel In	put Method : Binary Input
	put methou . Dinary input
Channel1	
	<u>лл</u>
Channel2 Channel3	
Channel2 Channel3 Channel4	
Channel2 Channel3 Channel4	No.5 No.4 No.8 No.1 No.1
Channel2 Channel3 Channel4 Message No.	No.5 No.4 No.8 No.1 No.1
Channel2 Channel3 Channel4 Message No. Memory Storage	No.5 No.4 No.8 No.1 No.1
Channel2 Channel3 Channel4 Message No. Memory Storage Channel1	No.5 No.4 No.8 No.1 No.1
Channel2 Channel3 Channel4 Message No. Memory Storage Channel1 Channel2	No.5 No.4 No.8 No.1 No.1
Channel2 Channel3 Channel4 Message No. Memory Storage Channel1 Channel2 Channel3	No.5 No.4 No.8 No.1 No.1

\* All channels above 5 are the same

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- During a Sto	p inpu	ıt												
Channel1		ப	บ				Л	ΠL						
Stop														
Message No.		N	lo.1	Т	No.1		No.′	1 (			No.1	No.1 (	)	
Memory Storage	0		1	2	1	0	1	2	1	0	1		0	

\* The wavy line indicates when playback is stopped.

- During a Clear input



\* 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).

∏∎ത	∎ത
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

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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.

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
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
this same the available numb	ar of playback obenpale is got

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

\* 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

\* 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.

Forced Playback OFF	Forced Playback ON

\* Factory Setting: Forced Playback OFF

Sound Select Diagram

Sound No.			lode	Switc	h		Sound No.		Ν	lode	Switc	h	
Sound No.	1	2	3	4	5	6	Sound No.	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		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								
O Switch ON													

O -- Switch ON

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# 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

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

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7 Soi	und	list																							
	DITU	01	Веер	13	Galactic Hov	ercraft	25 Ending	g Notice Chime 2	37	Daydream Believ	/er 40	HATARAKI	U KURUMA 61		Furusato										
		02	Stutter					Fur Elise	38			NINGEN			AUTIFUL DREAMER										
		03	Bell	15	Spring Me					Mozart Symphony No					OLLY HOLIDAY										
		04	Yelp	16	Jalopy Ho	orn	28 Bach	Minuet in Gmjr	40	Quiet Lakeside	ə 52	WORLD FOOT	BALL ANTHEM	•											
		05	Rapid Hi-Lo	17	ET Doorb			nie Laurie		Mountain Musici															
Туре	F	06	Melody Chime	18	RR-cross			Bridge is falling down				NAMON													
. , ,	-			19	Train Whi			ol-Di-Li-Dia	43			Genesis o													
		08 S 09	Synthesized Bell Stutter + Bell	20	Train Ric Starting Notice			nad a little Lamb ptown Races		Grandfather's Clo Ave Maria	ock 56 57		0 N0.5 the Tin Soldiers												
			ynthesized Melody		Starting Notice (			Cukkoo		RHYTHM AND POLI															
		10 0,	Chime					e Blacksmith					ombo												
		12	Call Sign	24	Ending Notice C	hime 1	36 On the	Avignon Bridge		MAJINGAA ZET															
		01	Веер	13	Train Rid			ring Melody		Mary had a little La			-can 61		Nedelka										
		02	Stutter	14	Galloping H	li-Lo	26 Ja	lopy Horn		Camptown Rac					onlight Serenade										
		03	Bell	15	Alien Cha			T Doorbell	39					3 WA	REWA UMINO KO										
		04	Yelp	16	Falling Cry			R-crossing		Mozart Symphony No			s Post												
		05	Rapid Hi-Lo	17	Inverted Re			g Notice Chime 1	41	Ave Maria		Polka Tra	amblanka												
Туре	G 06		Melody Chime	18	Galactic M	otor		g Notice Chime 2		Grandfather's Clo	-		eneli												
				19 20	Ringing Ph Two Tor		-	y Notice Chime 1	43 44			KAERUNO El Condor Pa													
		08 S 09	Stutter + Bell	20 21	Alarm Clo			g Notice Chime 2 Fur Elise	44 45			Hungarian													
				22	Ringing H			Minuet in Gmjr		Turkey in the Stra															
		10 0,	Chime		Galactic Hov		-	nie Laurie	47			Pomp and C													
		12	Call Sign					Bridge is falling down		J'ai perdu le do de ma clarir			sleeves												
Sound G	roup L	ist																							
S	ound C	Group	Group A		Group B		oup C	Group D		Group E	G	roup F	Group G	;	Group H										
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0 1	$\sim$																								
Sound			5 <b></b>		S	NO		80∎00⊷		8∎	ļ	5	5∎		8.∎										
/ Chann		nel1	Fur Elise	Mar	y had a little Lamb	٨٣	naryllis	Grandfathar's C	look	Spanish Romance	Manyby	id a little Lamb	Веер		RHYTHM AND POLICE										
			A Maiden's Prayer								•		Stutter		ZANKOKUNA TENSHINO TEEZE										
	Channel2 Channel3		Bach Minuet in Gmjr							Bach Minuet in Gmjr			Bell		MAJINGAA ZETTO										
	Channel4		Annie Laurie				in Musiciar	,		Ave Maria	Daydream Believer		Yelp		HATARAKU KURUMA										
Type F	Channel5		London Bridge is falling down		the Avignon Bridge Spanish Roman		h Romance	Bell		Stutter + Bell		id Hi-Lo	Rapid Hi-Lo		NINGENTTE IINA										
	Channel		Hol-Di-Li-Dia	Day			Katyuscha Yelp				dy Chime	Melody Chime		Robinson											
		nnel7	Chime	Chime		Chime				Synthesized Piano			,												
		nnel8	Call Sign	Call Sign Call Sign		-			Synthesized Bell			Synthesized Bell		Synthesized Bell											
		nnel1	Fur Elise		h Minuet in Gmjr		r Elise	Alien Chat		Train Ride		id Hi-Lo	Beep		The Parade of the Tin Soldiers										
		nnel2	Bach Minuet in Gmjr				dge is falling dow			Galloping Hi-Lo		Chime	Stutter		If You're Happy and You Know If										
		nnel3	Annie Laurie London Bridge is falling down		Amaryllis art Symphony No.40		d a little Lamb					Stutter	Bell Yelp		Flea Waltz										
Type G	Channel4 Channel5		Mary had a little Lamb		indfather's Clock		town Races Galactic Moto maryllis Ringing Phone					ter + Bell	Rapid Hi-Lo		Turkey in the Straw The Battle Hymn of the Republic										
		nnel6	Camptown Races				andfather's Clock Two Tone					sized Melody			J'ai perdu le do de ma clarinette										
		nnel7	Chime		Chime		hime	Alarm Clo		Synthesized Piano															
		nnel8	Call Sign		Call Sign	Call Sign				Synthesized Bell Synthe															
Sc	ound G		Group I		Group J		oup K	Group L		Group M		roup N	Group C		Group P										
					4		<b>■</b> 4	4		4	Ĩ	4	4		4										
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Sound											-														
/ Chann			S	T····					TEC 70				S III -		Z IIII ←										
	Char	nnel1 nnel2	BANZAI SUKIDE YOKATTA		key in the Straw ka Tombo		UKIDE YOKATT			Galactic Hovercraft Game Intermission		ie Laurie idge is falling down	Camptown Ra		Daydream Believer Amaryllis										
		nnel2 nnel3	NAMONAKI UTA				bo No.5	HATARAKU KUR				Di-Li-Dia			AmaryIIIS Mozart Symphony No.40										
		nnel4	Genesis of Aquarion	. u	Furusato							ad a little Lamb	On the Avignon E		Quiet Lakeside										
Type F		nnel5		BEA	UTIFUL DREAMER		Intermission					UKIDE YOKATTA	WORLD FOOTBALL AT	-	Starting Notice Chime 1										
		nnel6	The Parade of the Tin Soldiers		LLY HOLIDAY		a Melody					NAKI UTA			Starting Notice Chime 2										
		nnel7	Starting Notice Chime 3		ing Notice Chime 1		lotice Chime			Train Ride		irusato	Funiculi, Funi		Chime										
		nnel8	Stutter		Stutter		tutter	Stutter				FUL DREAMER	JOLLY HOLI		Call Sign										
	Char	nnel1	Can-can	KAE	RUNO GASSHOU	Ne	edelka	The Parade of the Tin S		Galactic Hovercraft	Fι	ır Elise	Mary had a little		Ave Maria										
		nnel2	Radetzky March		ondor Pasa (If I Could)		ht Serenade					linuet in Gmjr	Camptown Ra		Grandfather's Clock										
		nnel3	,					Funiculi, Funi				ie Laurie	Amarylli		Radetzky March										
Type G		nnel4	Csikos Post		iam Tell Overture		g Melody			Jalopy Horn		idge is falling down	Mozart Symphony		Polka Tramblanka										
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		nel5		-	p and Circumstance		py Horn	RR-crossin		ET Doorbell		ppy and You Know It	Flea Wal		O Vreneli										
		nel6	O Vreneli		eensleeves			Starting Notice Chi		RR-crossing		KOS POST	Turkey in the S		El Condor Pasa (If I Could)										
	Char				actic Hovercraft		Notice Chime	-	ine 2	Starting Notice Chime 1		NO GASSHOU	The Battle Hymn of the P		Hungarian Dance No.5 William Tell Overture										
	Unar	nnel8	Game Intermission	Gal	me Intermission		NUCE CHIME	Chime		Ending Notice Chime 2	Gree	nsleeves	Can-car	I	William Tell Overture										
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