SPECIFICATIONS

[General Specifications]

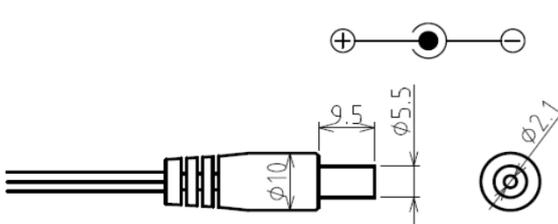| Model		NHL-3FV1N-RYG
Rated Voltage		24V DC
Operating Voltage Range		Rated Voltage ±10%
Rated Power Consumption	Typ.	1.7W
	Max.	7.7W
Operating Ambient Temperature		0°C to +40°C
Operating Ambient Humidity		20-80% (No condensation)
Storage Ambient Temperature		-10°C to +60°C
Storage Ambient Humidity		20-80% (No condensation)
Mounting Location		Indoors
Mounting Direction		Upright
Protection Rating		IP20(IEC 60529)
Vibration Resistance		19.6m/s² (IEC 60068-2-6)
Mass (Tolerance ±10%)		1.15kg (not including accessories)
Outer Dimensions		Refer to the Outer Dimension Drawing
Conformity Standards		FCC Part15 SubpartB Class A UL1638,UL 464, CSA-C22.2 No. 205 EMC directive (EN 55032 (ClassA), EN 55024), RoHS Directive (EN50581) Conforms to the CE Requirements
Communication Method		Ethernet （Conforms to the IEEE 802.3）
	Physical Layer	10BASE-T/100BASE-TX（Auto-negotiation・Full Duplex/Half Duplex）
	Data Link Layer	CSMA/CD
	Network Layer	IP・ARP・ICMP
	Transport Layer	TCP・UDP
	Application Layer	HTTP・SNMP(V1,V2c)・RSH・SMTP・NTP POP3・DNS・Socket(PHN・PNS)・DHCP・SLMP
Interface	USB Port	USB2.0/1.1 TYPE-A 1ch
	Serial Port	RS232C mini DIN(Used for expanding additonal functions)
External Contact Output		Non-voltage contact output
	Number of Contacts	1
	Wire Diameter	Solid Wire/Stranded Wire:φ0.41-0.81mm（AWG26-20）
	Wiring Method	Screwless terminal block
External Contact Input		Non-voltage Contact
	Number of Contacts	4
	Transistor Input	NPN Transistor
	Contact Capacity	Output "ON" current @ 6mA or less per channel. Terminal OFF condition Voltage: 24V
	Wire Diameter	Solid Wire/Stranded Wire:φ0.41-0.81mm（AWG26-20）
	Wiring Method	Screwless terminal block
Input Reaction Time		110msec or more
Operation Part		Volume,Reset Switch,Clear Switch,Mode Switch,Test Switch
Accessory		Setting Manual,Rubber Feet
Optional Parts		Wallmount Bracket(NH-WST2)
Remarks		To retain the UL certification for the main unit, it is required to use an AC adaptor with UL Listing.

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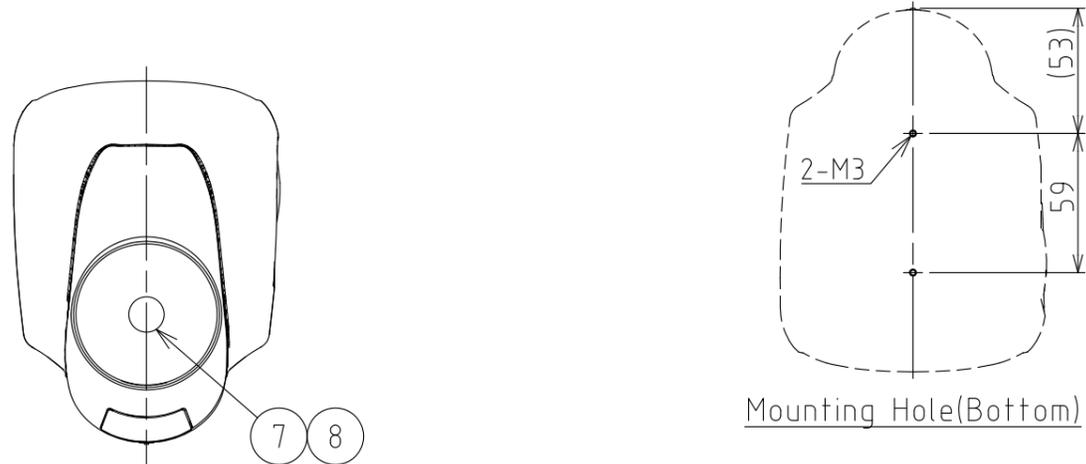|	Sound Pressure Level	88dB or more
	Environmental Condition	Front direction from the center/at 1m(1kHz sine wave played back at -6dB) MP3 data of the content and use of the environment, the sound pressure level will change.
	Audio Line Output	600Ω　0dBv(Unbalanced,Monaural Mini-Jack)
	Audio File Format	MPEG1-Audio Layer Ⅲ (MP3) Sampling Frequency 44.1kHz
	Bit Rate	32kbit/s、64kbit/s（Standard Rate）、128kbit/s Constant Bit Rate(CBR) only
	Number of Playback Messages	Transferred using a USB memory(Playlist Package):30(Total of up to 10Mbyte) Registration by the Web Setup Tool(MP3 File):30(Total of up to 20Mbyte) Preset:10

[Fanctional Specifications]

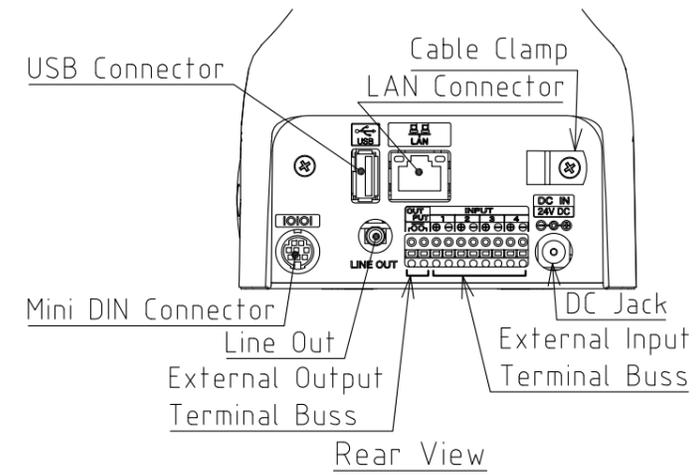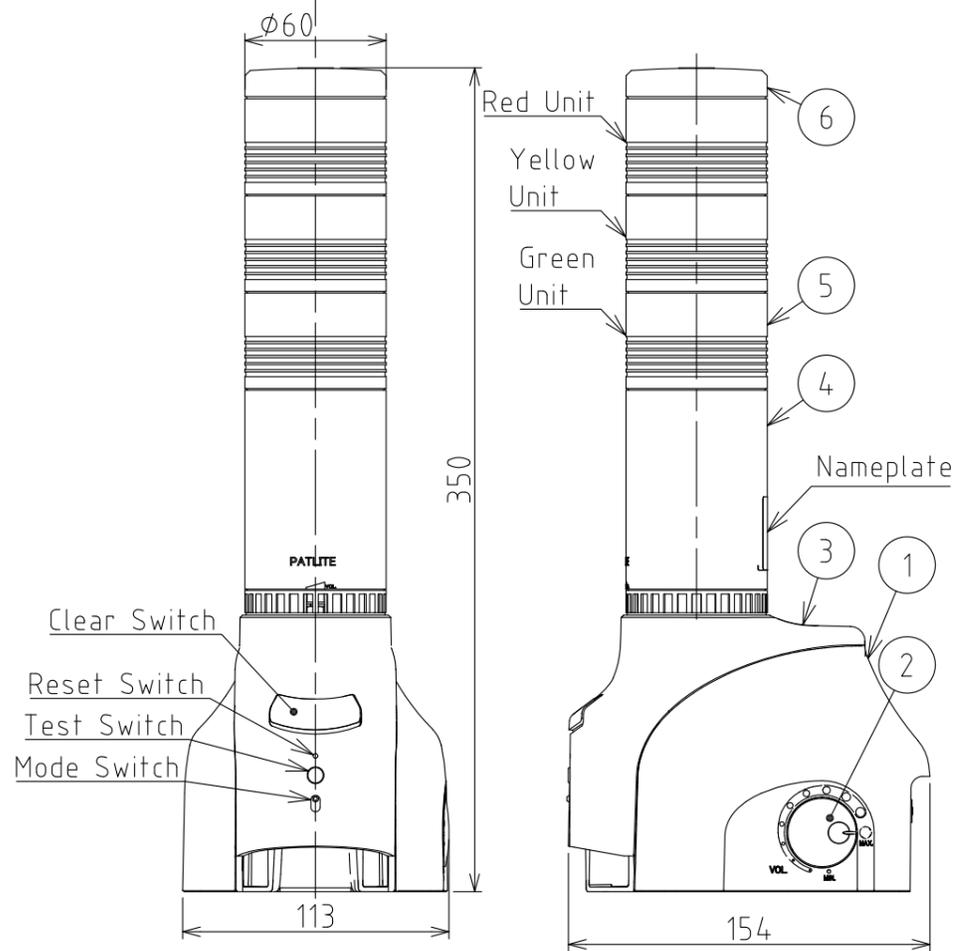|	LED Lighting Specifications	Red,Amber,Green
	On	"ON" (Continuous Lighting)
	Flashing Pattern 1	"ON" 500ms, "OFF" 500ms (Repetitive)
	Flashing Pattern 2	"ON" 80ms, "OFF" 170ms, "ON" 80ms, "OFF" 670ms (Repetitive)
	Preset Sound	Buzzer：4 Kinds Chime：3 Kinds Message：3 Kinds
	External Input	The status condition of a non-voltage contact input can be detected. The following functions are available at the time of detection. E-mail Transmission,SNMP TRAP Transmission,Contact Output ON/OFF, Control of Signal Tower and Sound and External Output.
	Condition Setup	It is possible to set the operation when conditions meet. Continuation time detection: When the input is detected, it will be activated.
	External Output	Perform an external device control by external contact output at the time of the event or during sound playback
	BUSY Output	ON the external contact output during sound playback
	Clear Switch	When pressing the "Clear" switch, the following operation occurs. E-mail Transmission,SNMP TRAP Transmission,Contact Output ON/OFF, Control of Signal Tower and Sound and External Output.
	Reset Switch	Causes the product to reboot.
	Test Switch	Check the operation of the product
	Mode Switch	Set the mode of operation of the product
	Volume Setting	Volume adjustable at the side of the product analog volume Volume settings and mute setting is possible with the Web Setup tool
	TRAP Transmission	SNMP TRAP is transmitted at the time an event occurs (V2C).
	TRAP Reception	The following operations occur at the time of an SNMP TRAP reception (V1, V2C): E-mail Transmission,SNMP TRAP Transmission,Contact Output ON/OFF,Control of Signal Tower and Sound and External Output.
	E-mail Transmission	E-mail is transmitted at the time an event occurs (up to 8 addresses).
	rsh Command Reception	The rsh command from an external instrument is received and contact status is acquisitioned,and Control of Signal Tower and sound and external contact output
	Socket Reception	A PNS Command and PHN Command are received and contact status is acquisitioned,and Control of Signal Tower and sound and external contact output
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SNMP SET/GET	Acquisition contact information, and Control of Signal Tower (MIB file application) (V1, V2C)
SNMP-compatible device monitoring	Monitoring the status of the target, when the state is changed, the operation which is determined.（V1）
Ping Monitoring	A maximum of 24 Ping commands can be transmitted to an external instrument to check the connection conditions.
Application Monitor	The operation status of a working application to an external instrument can be checked.
SLMP Function	Send the SLMP command, perform the read / write device state.
Test Function	Product certifications by the test switch · rsh command
Date Log	Display of the event log, save the event log to USB memory
Xml Function	Data can be acquired the Signal Tower and sound playback information and contact input and output in xml format
Time Correction	Automatically correct time (register and connect to an NTP server) The time correction is reflected on the PC.
Web Setup Tool	Various settings are possible through the Web setup screen.
PNS Manager Function	The function can perform network settings for instruments, etc.
Function	The following operation mode switching:product the front of the switch operation 1：Nomal Mode 2：Network set-up initializing Mode 3：DHCP Mode 4：Playlist Upload Mode 5：Config Upload Mode 6：Config Download Mode 7：Initialization Mode 8：Firmware Update Mode 9：Event Log Download Mode
Initialization Function	Can be initialized by the product the front of the switch operation or Web Setup Tool
Configuration Data Save/Load Setup	Storage of setting-out information and the writing to the Main Unit of setting-out information are performed from a Web setting function and a USB memory.
Firmware Update	Upgrade, using the Web Setup Tool Upgrade from a USB memory
Playlist Package Upload	Upload from the USB memory
MP3 Sound Data Upload	Uploaded from the Web Setup Tool
Sound Playback Mode	Input Priority Playback or Memory Playback can be selected

[Recommended AC Adaptor Specifications]

DC Output	Voltage	24V DC ±5%
	Current	0.75A to 1A max.
	Plug Length	9.5mm or more
	Plastic Housing	10mm dia. or less
	Plug Connector Outer Diameter	5.5mm dia.
	Plug Connector Inner Diameter	2.1mm dia.

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Mounting Hole(Bottom)

2-M3
(53)
59

Rear View

USB Connector
Cable Clamp
LAN Connector
Mini DIN Connector
Line Out
External Output
Terminal Buss
External Input
Terminal Buss
DC Jack

Front / Side View

⑦ ⑧

⑥ Red Unit
Yellow Unit
Green Unit

⑤
④
③
②
①

Nameplate

Clear Switch
Reset Switch
Test Switch
Mode Switch

φ60
350
113
154

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VOL

No.	Part Name	Part No.	Qty.	Material & Size & Finish	Remarks
8	Cover Seal		1	PC Sheet	
7	Shaft		1	M4 Screw	
6	Head Cover		1	ABS Off White	
5	LED Unit		3	Globe AS Clear/Reflecter ABS	
4	Tower Body		1	ABS Off White	
3	Upper Case		1	ABS Off White	
2	Volume		1	ABS Medium Gray	
1	Main Body		1	ABS Medium Gray	
番号	部品名	品目コード	数量	材料 & 寸法 & 処理	記事

外観図面
Outer Dimension Drawing

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