

Network Signal Tower with Voice Annunciator NHV Series

## New

Secure protocol support

# Visualize network environment with peace of mind



## **Network Error Notification**

Reports errors in network devices and systems. Instant notification with light and sound.

# New Expanded Lineup

Select models suitable for your needs, such as, email detection or PoE compatability.

NHV NHV-D NHV-DP NHV-M

## New Compatible with Secure Protocols

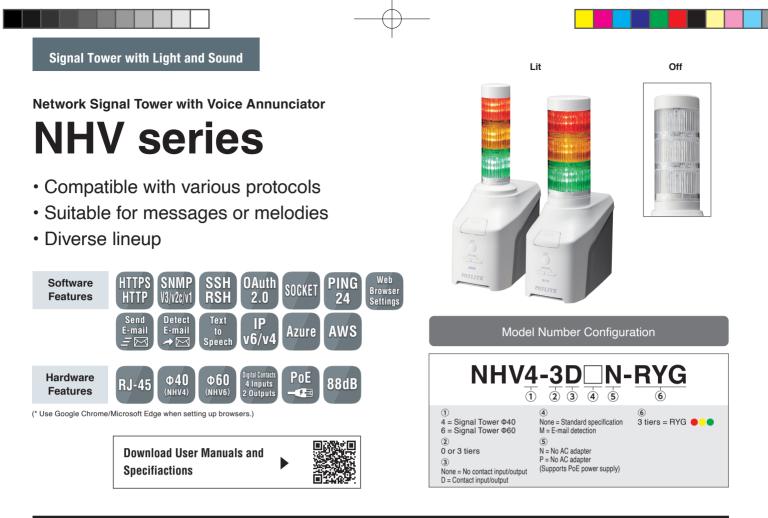
Supports secure protocols such as HTTPS, SNMP v3, SSH. Secure communication with peace of mind.



# New Features

Added features for improved usability.





## NHV (Voice-enabled)



Standard model with high network security.

Product List	Φ40 Signal Tower	Φ60 Signal Tower	
No AC adapter	NHV4-0N	NHV6-0N	
	NHV4-3N-RYG	NHV6-3N-RYG	

## NHV-D (Voice-enabled, Digital IO)



Standard NHV model plus 4 digital inputs and 2 digital outputs. Compatible with a wide range of applications, such as receiving outputs from sensors or controlling another device when the NHV is lit by sending digital contact outputs.

Product List	Φ40 Signal Tower	Ф60 Signal Tower	
No AC adapter	NHV4-0DN	NHV6-0DN	
	NHV4-3DN-RYG	NHV6-3DN-RYG	

### NHV-DP (Voice-enabled, Digital IO, PoE Power)



NHV-D plus PoE power capability. It can be used in areas where it is difficult to secure power supply or to facilitate network camera connection. (IEEE802.3 at compliant) Can also be used with optional ADP-001 power adapter.

Product List	Φ40 Signal Tower	Φ60 Signal Tower
PoE power supply	NHV4-0DP	NHV6-0DP
(No AC adapter)	NHV4-3DP-RYG	NHV6-3DP-RYG

#### NHV-M (Voice-enabled, Mail Detection)



The NHV-M unit accesses the mail server and will light up or play a message when emails that meet preset conditions are received.

Product List	Φ40 Signal Tower	Ф60 Signal Tower
No AC adapter	NHV4-0MN	NHV6-0MN
NO AC adapter	NHV4-3MN-RYG	NHV6-3MN-RYG

#### **Optional Parts**







Partition Mounting Bracket NH-002



#### Adding/Reconfiguring LED Unit

Easily add, remove or reconfigure LED units by simply turning them by hand. No tools are required.

Compatible with LR4 / LR6 series LED units. Clear lens and colored lens available. NHV6 also supports multi-color LED units.



Clear lens Model Number : LR6-E-D D : RZ/YZ/GZ/BZ Red / Amber / Green / Blue



Φ60 LED Unit for NHV6

Φ40 LED Unit for NHV4



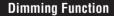
•A maximum of 5 LED Units (LRD-E-D) can be installed. •Units other than supported LED Units cannot be connected. •Multiple LED units (LRD-E-D) of the same color cannot be connected.

## Φ60 Multi-color LED Unit for NHV6

Display seven colors with a 1-tier Multi-color LED Unit. Model Number : LR6-E-MZ



\* WDT-6LR-Z2 cannot be used when the multi-color LED unit is used.
\* When the multi-color LED unit is installed the dimming function (see below) cannot be selected and the maximum luminous intensity is displayed.



#### 4-level brightness adjustment function

**Clear lens** 

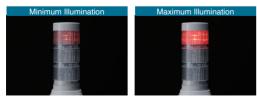
D: RZ/YZ/GZ/BZ

Model Number : LR4-E-D

Red / Amber / Green / Blue

Factories and other similar locations, require LEDs to be bright so they can be seen from a distance. However, in offices or places where people are close to the unit, the LEDs need to be dimmer.

The NHV series offers four brightness settings so the appropriate light intensity can be set for your situation.



\* The maximum luminous intensity is displayed when the Multi-color LED unit or WDT unit is mounted and cannot be changed. (Dimming function cannot be selected.)

## WD Series Data Collection

Colored lens

 $\Pi \cdot R/Y/G/R/C$ 

Model Number : LR6-E-D

Red / Amber / Green / Blue / White



# The WD series, a part of PATLITE's IoT offering, can be used.

The LED status is transmitted wirelessly from the transmitter mounted on the NHV to a dedicated receiver, and data is stored.

Nothing needs to be added to the existing system.

\*The maximum luminous intensity is displayed when the Multi-color LED unit or WDT unit is mounted and cannot be changed. (Dimming function cannot be selected.)

Transmitter for NHV4

WDT-4LR-Z2



Transmitter for NHV6

WDT-6LR-Z2

## Basic Common Functions



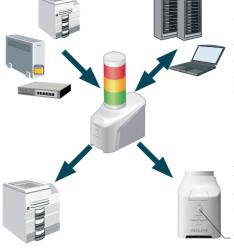
SNMP TRAP from network-compatible devices (such as UPSs, printers, routers, and switches) are received to promptly notify the administrator of errors and faults with light and sound.

Determine variable-bindings.Register up to 16 groups (4 nodes per group).

### **SNMP Status Monitoring**

#### Actively get Device Status

Equipped with an SNMP device monitoring function in addition to dead/alive monitoring by PING monitoring. When the MIB information of the network device is actively acquired and the set conditions are met, the administrator is notified immediately by light and sound.



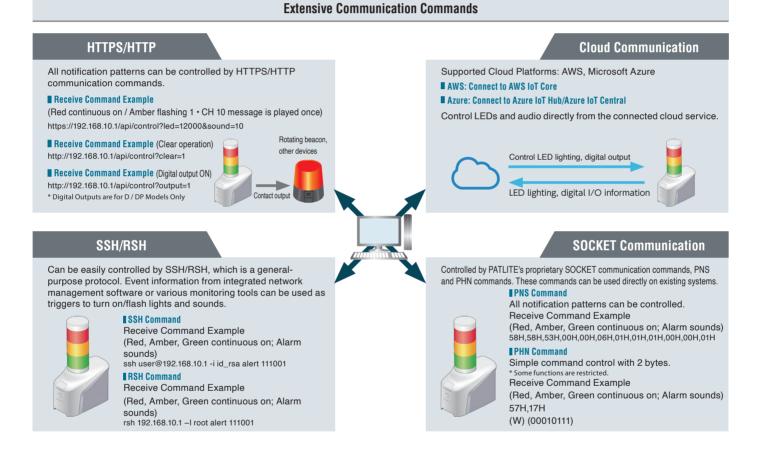
### **PING Monitoring**

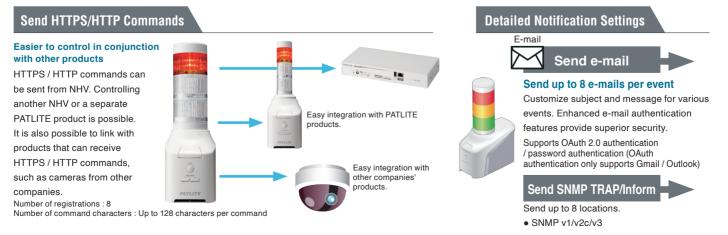
Each NHV unit can PING up to 24 devices. If a line failure to a node or a response from a monitored device cannot be obtained, the NHV considers it as an error and notifies the administrator quickly with light and sound.

### Self-diagnosis Function

The test button on the front of the unit can be used to easily check the operation of the indicator light and alarm functions without control from the network.

Test Button





### Voice Function – MP3 Playback Function –

The MP3 playback function enables notification with voice messages. Detailed emergency information and voice guidance can be played back.

## Text To Speech

### TTS (Text to Speech)



This unit is equipped with a "Text to Speech (TTS)" function that converts text data to voice. This makes it easy for customers to create voice messages, or text can be automatically read aloud by typing text in the command. In addition, since the voice synthesis engine is built into the main unit, voice conversion can occur even when offline (not connected to the internet).

#### **Generate Voice File for Registration**

Generate audio from text, register it to an audio channel, and play it back with a command. Compared to traditional recording methods, we have succeeded in dramatically reducing the time and effort required.

(Custom recording service is also available depending on customer's convenience, application and preference.)

#### Voice File Generation from Command

Characters you want spoken can be entered directly in the command and when a command is received the NHV will convert the text to voice and play it.

#### Command Example

http://192.168.10.1/api/control?speech=Hello&lang=en



### Loud, Clear Audio

In spite of its compact size, the unique horn structure achieves a sound pressure of more than 88dB (at 1m).

The clear audio makes it easier to distinguish the information.



\* Use Google Chrome / Microsoft Edge when setting up browsers

a web browser.

Set 16 volume settings using the

Volume change can be disabled in the software (in the browser

settings) to prevent unintended

VOLUME buttons.

changes in volume.

Volume + button

Volume - button

Various settings and MP3 files can be uploaded from



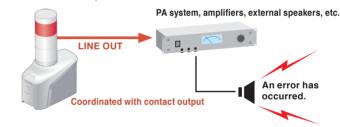




#### **Connection to Existing Broadcasting** Equipment

Voice messages can be broadcast by connecting the digital output of the unit to an external amplifier.

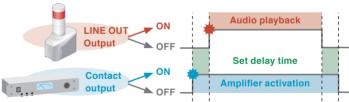
\* Built-in sounds cannot be output from LINE OUT



#### **Coordinate Audio Playback and Contact Output**

Digital contacts can be output during audio playback

Voice output can be delayed to prevent it from starting before the amplifier starts.



Standard Sound

Error detected

on the network

Various Built-in Sounds

PATLITE

There are a total of 11 built-in audio data (5 alarms, 3 chimes, and 3 voice messages). These are available from the time of shipment for network error notification. Select alarms or messages according to monitoring requirements.

#### 

Alarm	Sounds
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Alarm Sounds	Chime Sounds	Voice Messages	
▷ (Beep, Beep, Beep); ▷ (Slower Beep); ▷ (Very slow, Beep);	♪ Chime 1 ♪ Chime 2	$\bigcirc$ An error was detected in the network. $\zeta$	
(Da haan Da haan), N (Daana) (continuous cound)	A Chima 2		

♪ (Be-beep, Be-beep); ♪ (Beeee) (continuous sound)

- Chime 3
- Voice Messages

An error occurred. The error has been cleared.

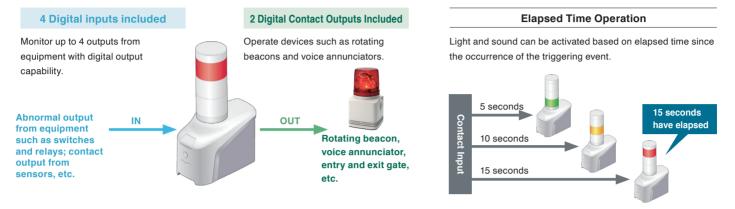
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## **Model Features**

## Digital Input/Output (D Model/DP Model)

Compatible with a wide range of applications, such as receiving information from sensors or sending digital signals to other devices when events trigger the NHV.



#### **PoE Power (DP Model)**



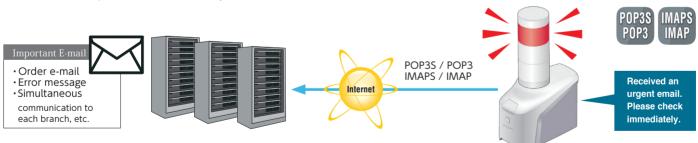
This model has the NHV-D features plus PoE power capability. It can be used in areas where it is difficult to secure power or to facilitate network camera connection. (IEEE802.3at compliant)

\* If POE power is used, a IEEE802.3at compliant PoE+ power supply (HUB, injector) is required. USB power cannot be supplied from the main unit's USB connector if an IEEE802.3af compliant PoE power supply is used.

### Mail Reception Detection (M Model)

The NHV-M unit accesses the mail server and will light up or play a message when emails that meet preset conditions are received. No PC is required because the NHV-M accesses the server directly, so no modification is needed to the existing system. It is compatible with "OAuth2.0<sup>\*</sup>" as well as "Password Authentication".

\* OAuth authentication is compatible with "Gmail" and "Outlook" only

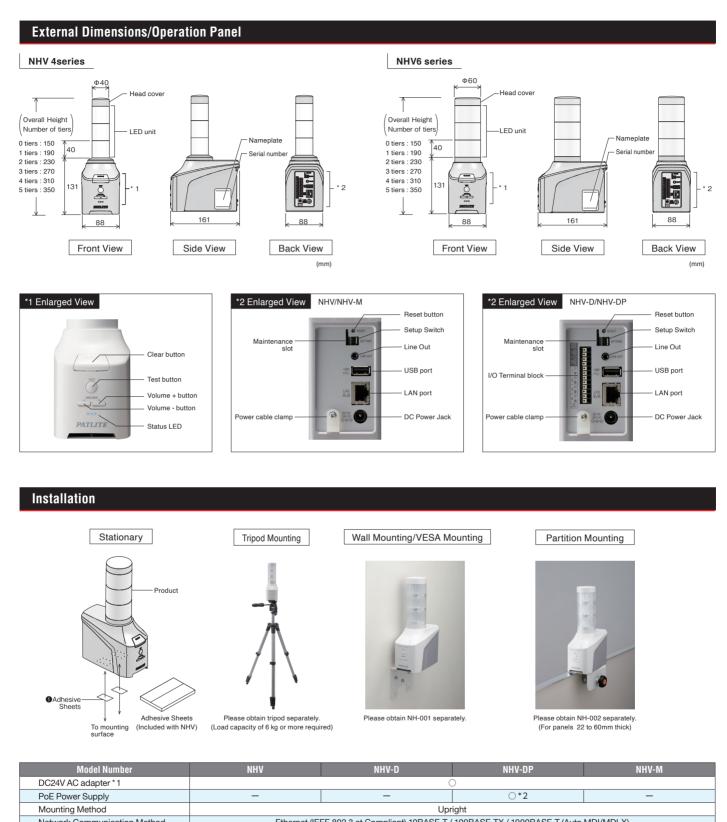


Detection Condition : "Sender (mail address)", "Subject" and "Body" (Matches with above/ includes / does not include / starts with) Number of Conditions : 20

### **Function List by Series**

Model Number	NHV	NHV-D	NHV-DP	NHV-M
Dimming Function	0	0	0	0
Cloud Control	0	0	0	0
Send HTTP	0	0	0	0
Audio Playback (MP3)	0	0	0	0
TTS (Text to Speech)	0	0	0	0
Digital I/O (4 inputs/2 outputs)	—	0	0	—
PoE-powered * IEEE802.3at Compliant	_	-	0	_
Mail Detection Function	-	-	-	0

# External Dimensions and Installation Method

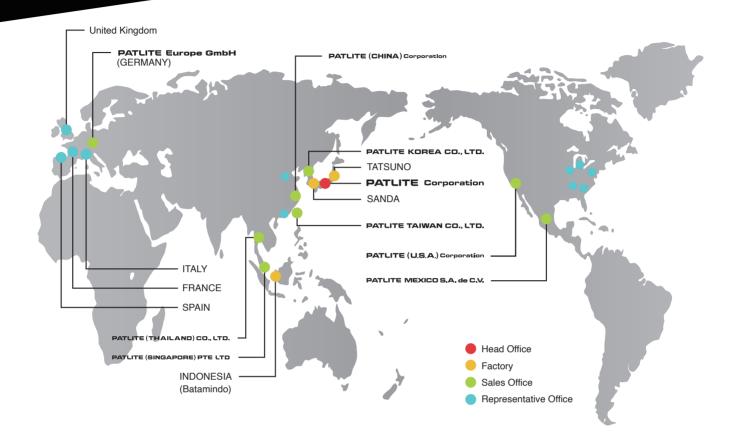


Mounting Method	Upright	
Network Communication Method	Ethernet (IEEE 802.3 at Compliant) 10BASE-T / 100BASE-TX / 1000BASE-T (Auto MDI/MDI-X)	
IP Network	IPv4/IPv6 Dual-stack	
IP Address Setup	Manual setting and DHCP auto setting	
Ambient Temperature	0°C to 40°C	
Ingress Protection	IP20	
Supported Protocols	HTTPS/HTTP, SSH, RSH, SMTPS/SMTP, IMAPS/IMAP, POP3S/POP3, SNMP(v3 / v2c / v1), NTP	
Conformity Standards	UL62368-1, CSA C22.2 NO. 62368-1 FCC Part 15 Subpart B Class A EN 55032, EN 55035, EN IEC 63000 KS C 9610-6-4, KS C 9610-6-2*3 TR CU 020, TR EEU 037*3	

\*1. N and DP models of each series are compatible with the AC adapter, the adapter is not supplied with the product. \*2. IEEE802.3at (PoE+) compliant. Please check the specifications of your device when powering with PoE.

\*3. N and P specifications only

# **PATLITE** Global Network



## **PATLITE** Corporation

https://www.patlite.co.jp

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https://www.patlite.co.kr

https://www.patlite.co.th

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### **A**CAUTION

To ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.

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