# Network Monitoring Signal Tower Now Available with Azure and AWS Cloud Service Compatibility

# **Real-time Monitoring**

- Variety of communication protocols including HTTP, SNMP, RSH, PING
- Able to Email real-time reports and alerts

# **Effortless Device Setup**

- The digital inputs on the NH-FV Series allows users to link devices not compatible with the cloud.
- Enables highly secure remote device management and data collection on Azure IoT Central
- Direct communication with AWS IoT Care















# Network Monitoring Signal Tower Series with MP3 Voice Alerts

### **NH-FV** Smart Signal Towers

- · Audible alarm and MP3 voice alert functions
- · Built-in digital output and contact inputs
- · Able to send email alerts
- Monitor network device status using SNMP protocol

#### **LR4 and LR6 Series LED Units**

Size	Color	Model
ф40		LR4-E-RZ / YZ / GZ / BZ Clear globe
ф60		LR6-E-RZ / YZ / GZ / BZ Clear globe

## **Easily Reconfigure LED Colors**

No tools are required to reconfigure the LED units. Simply twist the LED units to lock or release the units from one another. Standard stack lights are generally glued together or require tools to reconfigure modules.

# Monitor network device status using SNMP protocol

In addition to PING monitoring, the NH Signal Towers are equipped with an SNMP monitoring function. It actively obtains MIB information from supported SNMP network devices and is able to notify personnel with visual, audible, and/or email notifications when changes occur.

OFF

# Control Interface (NH-FV2 Series)



# **Options**



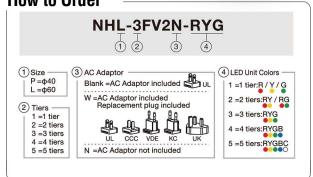
Length / NH Ma	P-FV2 in Unit			nass	
Number of Tiers	1	2	3	4	5
Main unit length (mm)	256	296	336	376	416
Mass (g)	945	980	1015	1050	1085

Length / NHL-FV2 Main Unit mass Main Unit Length					
Number of Tiers	1	2	3	4	5
Main unit length (mm)	256	296	336	376	416
Mass (g)	1030	1090	1150	1210	1270

# How to Order

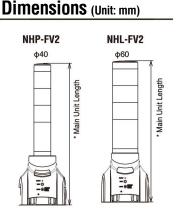
NHL-3FV2-RYG

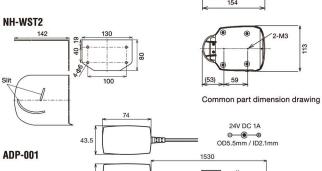
NHP-3FV2-RYG

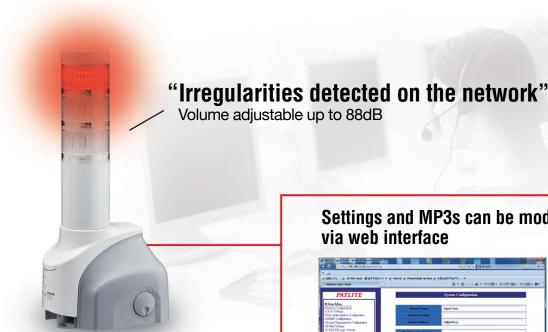


**Easily Reconfigure** 

**LED Colors** 







#### **Audible Alarm Functions**

The NH Series comes pre-loaded with four audible alarm tones and three chime tones. The NH-FV comes also pre-loaded with three MP3 voice alerts and stores up to 60 MP3s.

# Alarm tones

(Fast intermittent) (Medium intermittent) (Slow intermittent) (Continuous sound)

#### Chime tones

Chime 1 Chime 2 Chime 3

#### Voice alerts

"Problem was detected in the network"
"A problem occurred" "Problem was solved"

#### MP3 Voice Alerts

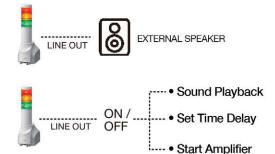
Load the NH-FV with custom MP3 messages to give your network and/or machines a voice.

#### **Loud Alarm**

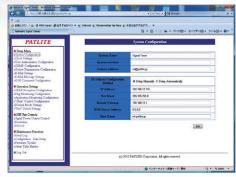
The audible alarm horn is designed with an unique structure that achieves a sound pressure of 88 dB.

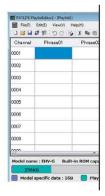
#### **Line Out**

A digital output can be linked to the Line Out output so that another device, such as an amplifier or beacon, can be activated while the sound plays back. A delay can also be set to the sound trigger.



# Settings and MP3s can be modified



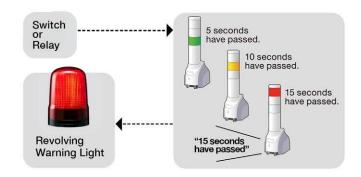


#### Digital Input / Digital Output Contact Monitoring

The NH-FV is equipped with four digital contact inputs and one digital output.

#### Example:

An input from a switch relay can trigger a timer function. At preset time intervals, alert functions trigger and send an output to trigger an external device.



#### **USB Flash Drive**

A USB flash drive may be used for the following operations:

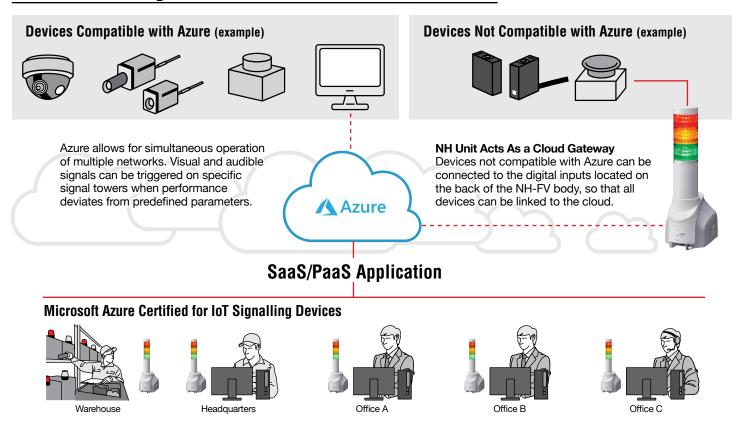
- Update Firmware
- Download Event Log
- Import/Export Operation Settings
- Edit MP3 Voice Alerts



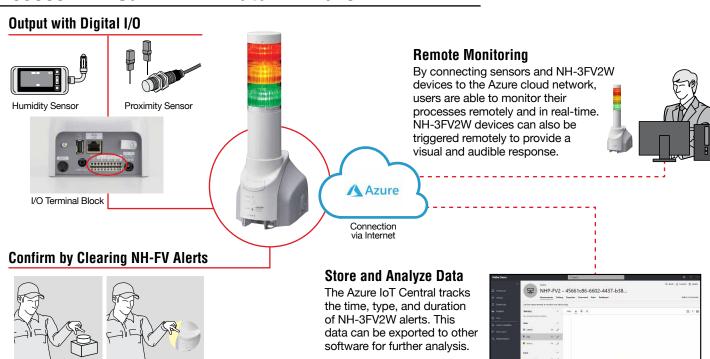


# **NH-FV Cloud with Azure**

# **Seamless Integration**

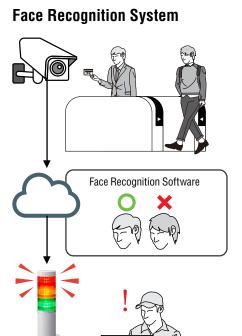


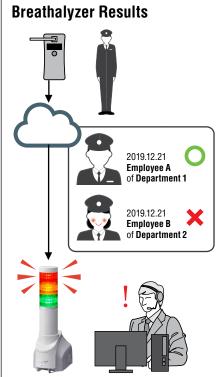
# **Access All Your NH-FV Data In Azure**

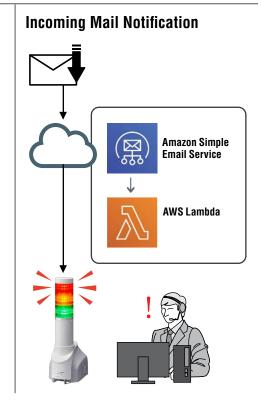


# NH-FV Cloud with AWS

# **AWS Application Examples**







# **Cloud Visualization Benefits**

#### **Prevent Mistakes**

Light and sound notification allows you to respond without overlooking something.

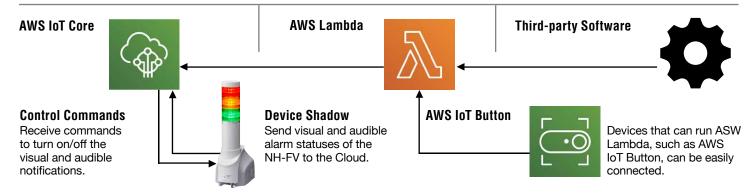
# **Quicker Initial Response**

Early detection enables rapid initial response to problems.

# **Efficient Operation**

Ability to check for abnormal situations while conducting other operations increases efficiency.

# **AWS Cloud Connection with NH-FV Series**



# Network Monitor Signal Tower Series with Audible Alarm

#### **NH-FB Smart Signal Towers**

- · Designed to compliment office spaces
- Up to 5 LED units with 2 types of flashing patterns
- 4 audible alarm sound types

NHL-3FB2N-RYG

(3)

**How to Order** 

(1) (2)



# LR4 and LR6 Series LED Units

The LR Series supports up to 5 LED units on a single signal tower.

1)Size

2 Tiers

P=φ40 L=φ60

1 =1 tier

3 =3 tiers 4 =4 tiers 5 =5 tiers Blank =AC Adaptor included UL

=AC Adaptor included

\* LED units (LR\*-E-\*) of the same color cannot be connected on the same unit.

Size	Color	Model
ф40		LR4-E-RZ / YZ / GZ / BZ Clear globe
ф60		LR6-E-RZ / YZ / GZ / BZ Clear globe

Installation image

## **Options**

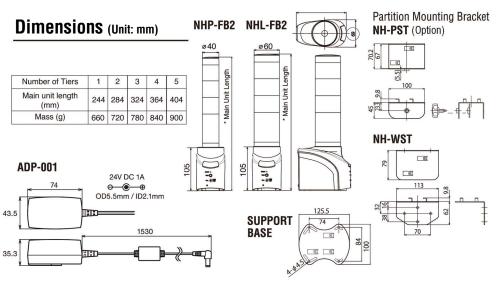




## **Simple Control Interface**

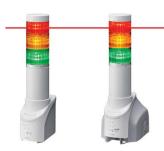


- Clear Switch
   Clears visual or audible alerts and returns
   the NHL to the "normal status"
- Reset Switch Reboots the NHL device
- Test Switch
   Cycles thruogh all segments



# Monitoring Functions for NH-FV and NH-FB Series

## Compatible with various monitoring functions







Routers



Machinery Assembly lines



Date Storage Devices

#### **PING Monitoring**

Ping up to 24 nodes simultaneously. While Ping is a basic diagnostic tool, the NH Signal Towers is able to notify you based on your priorities. For example, low priority ping response failures may trigger a flashing light, while higher priority failures will trigger an MP3 voice alert and send an email report, in addition to the flashing light.

## **Application Monitoring**

Gain control over your applications and earlier problem detection. Evaluate the performance of standard software and web applications and if an error occurs, the NH Signal Towers promptly alerts you before problems become worse.



### **Trap Monitoring**

As one of the oldest standards for network equipment fault notification, most network devices support SNMP traps. The NH Signal Towers are able to send, receive and analyze trap information and responds and/or notifies you appropriately.

#### **Email Transmission**

Send email reports of various network events to up to 8 addresses. The subject and body can be customized and can be automated to be sent in a variety of situations.

#### **HTTP Command**

HTTP (Hypertext Transfer Protocol) is an application-layer protocol designed within the framework of the Internet protocol suite.

The NH Series accepts HTTP commands sent through a web browser or PLC to trigger NH Series visual and audible alert functions.

#### NH-FB / NH-FV Series

Command execution (Red / Amber / Green Lights on Alarm sounds)

http://192.168.10.1/api/control?alert=111001

#### NH-FB / NH-FV Series

Command Execution (Perform clear operation) http://192.168.10.1/api/control?clear=1

#### **RSH Command**

Remote Shell (RSH), command line program that executes shell commands on remote hosts such as the NH Series.

RSH can be used to automatically run commands based on event information from network management software and various monitoring tools on the NH Series to trigger visual and audible alert functions.

#### NH-FB / NH-FV Series

(Red / Amber / Green Lights on Alarm sounds)

rsh 192.168.10.1 -I root alert 111001

#### NH-FV Series

Command Execution (Play the CH10 message) rsh 192.168.10.1-1 patlite sound 10

#### **SOCKET Communication**

Socket(s) allows communication between PCs and is used in a client-server application framework.

The NH Series accepts an application-level protocol called PNS (developed by PATLITE) to establish connection between client and server and to control visual and audible alert functions.

#### NH-FB / NH-FV Series

Command execution (Red / Amber / Green Lights on Alarm sounds)

58H,58H,53H,00H,00H,06H,01H,01H,01H,00H,00H,01H (NHL-FV Series cannot play alarm sounds with PHN command)

#### NH-FV Series

Command Execution (Play the CH10 message)

58H,58H,56H,00H,00H,04H,01H,00H,00H,10H

## Compatible with DHCP

Dynamic Host Configuration Protocol (DHCP) is a network management client/server protocol that automatically assigns an IP address to each device on a network so they can communicate with other IP networks.

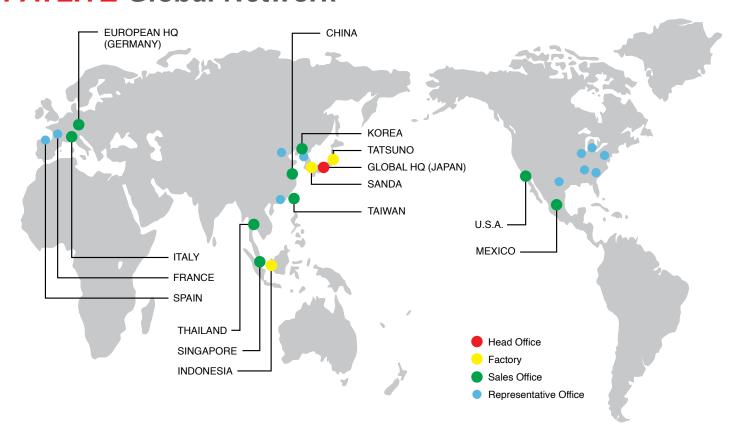
# Easy to Setup/Update

Accessing the NH Series settings or updating the firmware can easily be done through a web browser.

#### **Self-Test Function**

With the test switch located on the front of NH Series devices, users can test various functions without having to login to the device through the network.

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