General Specifications

	NHL-3FB2	NHL-3FV2
Rated Voltage	24VDC (Main Unit)	
AC Adaptor	Input: 100VAC - 240VAC (50/60Hz) Output: 24VDC	
Mounting Location	Indoor Only	
Mounting Direction	Upright	
Protection Rating	IP 20	
Mass (10% Tolerance)	780g	1150g
Sound Pressure Level	80dB or more	88dB or more
External Master Volume Control	None	Yes
Audio Line Output	None	Yes
Sound	4 tones	4 tones / up to 70 MP3s
External Contacts	None	4 Inputs and 1 Output
Communication Method	Ethernet (Conforms to the IEEE 802.3)	
E-mail Transmission	When an event occurs, an e-mail message is transmitted	
Maximum Addresses	8	
Authentication Protocol	POP before SMTP, SMTP_AUTH	
Security	SSL, TLS, none	
SNMP TRAP Transmission	When an event occurs, a TRAP transmission is executed	
Maximum Addresses	8	

Controllable Action

		Command	Tower	Sound	Buzzer	E-mail	TRAP	Digi-out*
		RSH	✓	✓	✓	✓	✓	✓
		HTTP	✓	✓	✓	-	-	✓
Socket		PNS	✓	✓	✓	-	-	✓
		PHN	✓	-	✓	-	-	✓
		SNMP Command	✓	✓	✓	-	-	✓
		"Clear" Switch	✓	✓	✓	✓	✓	✓

* Digital Output is available only for the NHL-FV

Ping Monitoring	Detect abnormalities on the network through IP addresses	
Maximum Addresses	12 Basic and 12 Enhanced	24 Enhanced
Application Monitoring	Detect abnormalities on the network through a port	
Maximum Addresses	4	
SNMP Trap Reception	TRAP reception detection	
Maximum Addresses	64	
SNMP Supported Equipment Monitoring	Built-in SNMP monitoring and status acquisition	
Maximum Addresses	None	20
SLMP Read Command	Detect the device information of a PLC	
Maximum Addresses	16	

Executable action at detection

Monitoring	Tower	Sound	Buzzer	E-mail	TRAP	Digi-out*
Ping Monitoring	✓	✓	✓	✓	✓	✓
Application Monitoring	✓	✓	✓	✓	✓	✓
Trap Reception	✓	✓	✓	✓	✓	✓
SNMP Supported	✓	✓	✓	✓	✓	✓
SLMP Command	✓	✓	✓	✓	✓	✓
External Contact Input*	✓	✓	✓	✓	✓	✓

* Digital Output is available only for the NHL-FV

	NHL-3FB2	NHL-3FV2
Self-test Function	Yes	Yes
Web set up tool	Yes	Yes
Conformity Standards	RoHS Directive (EN 50581) EMC Directive (EN 55032, EN 55024) FCC Part15 Subpart B Class B, ICES-003 Class B UL 1638, UL464, CSA C22.2 No. 205 CE Marking UL/cUL Listed	

Outer Dimension Drawings NHL-3FV2

Ø60
40 19
336
117
113
154

Volume

"CLEAR" Switch
"RESET" Switch
"TEST" Switch
"MODE" Switch
Speaker Diaphram

Name Plate
Power Cable Clamp
LAN Connector
USB Port
DC Jack
Mini DIN Connector
Input Terminal
Line Out
Output Terminal

Outer Dimension Drawings NHL-3FB2

Ø60
40 19
324
105
69
126

"CLEAR" Switch
"RESET" Switch
"TEST" Switch
"VOLUME" Switch
Buzzer Aperture

Name Plate
LAN Connector
DC Jack
Power Cable Clamp
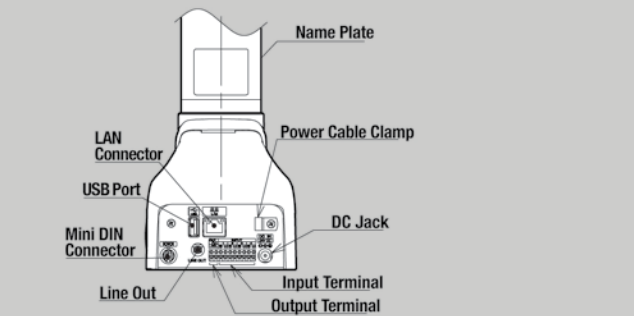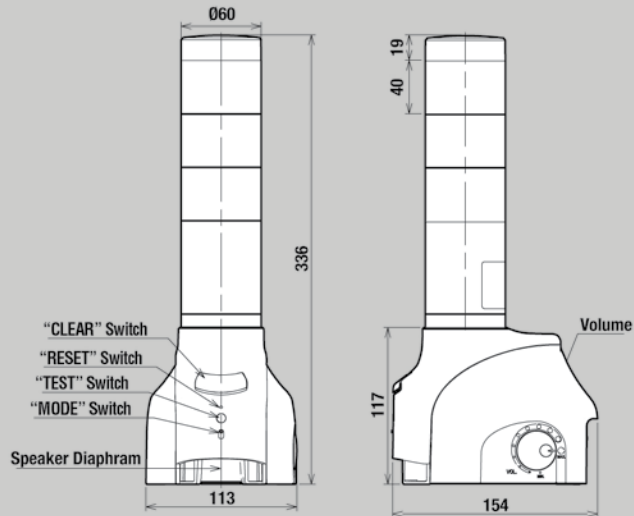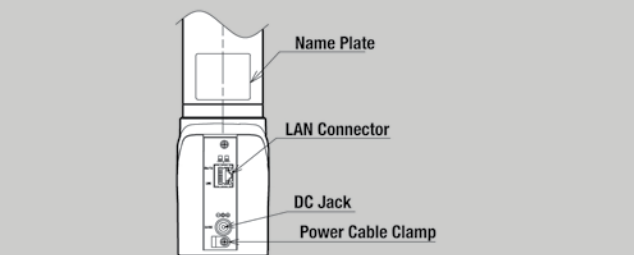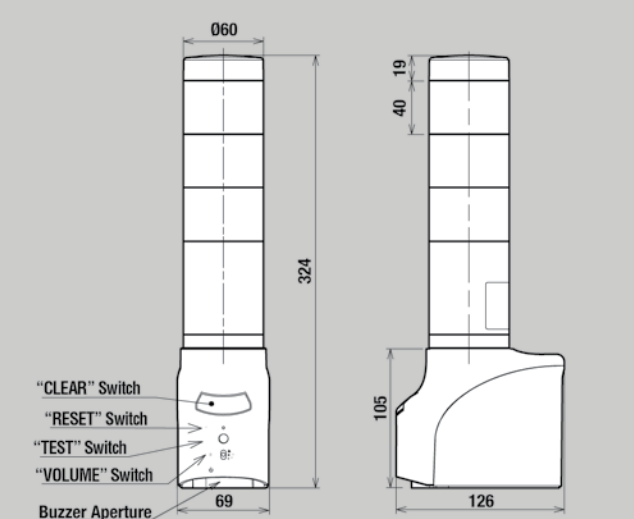
PATLITE®

Network Monitor Signal Tower

RESPOND QUICKER WITH REAL-TIME EVENT MONITORING

Improve Server Security and Network Management

Supports SNMP, RSH, HTTP, Ping

MP3 Voice and Email Alerts

Built-in I/O

CE   RoHS   c(UL)us LISTED

www.patlite.com

O-AH02 | EN | 1908 C

High visibility for reliable indication

The unique diffused reflection mirror, lens globe cut, and high-intensity LEDs produce brilliant color and reliable visual indication.

Signal Tower 60 mm

(ON CONDITION)

(OFF CONDITION)

DESIGNED TO COMPLEMENT OFFICE SPACES

Neutral color and a minimal form seamlessly blends into office spaces naturally. The clear lens also reduces false indication from overhead ambient light.

SIMPLE CONTROL INTERFACE

FRONT VIEW

① **CLEAR BUTTON:** Resets device to "normal state" determined by user preference

② **RESET BUTTON:** Reverts device to original factory settings

③ **TEST BUTTON:** Triggers test mode for visual and audible alerts

④ **VOLUME SWITCH:** Controls volume of audible alerts - High, Low, Off settings
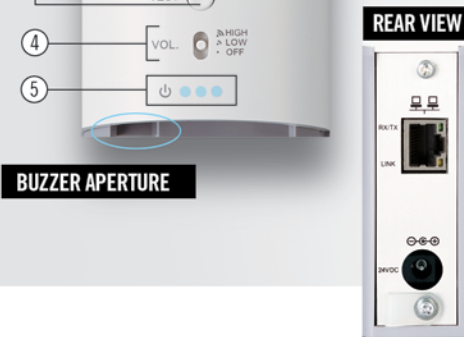
⑤ **STATUS LIGHTS:** Indicates operating status of device

①
② RESET
③ TEST
④ VOL. HIGH / LOW / OFF
⑤

REAR VIEW
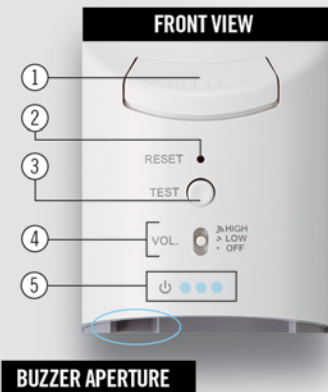
BUZZER APERTURE

BUZZER
Four built-in tone patterns:
Slow Intermittent, Fast Intermittent, Fast Burst, Continuous
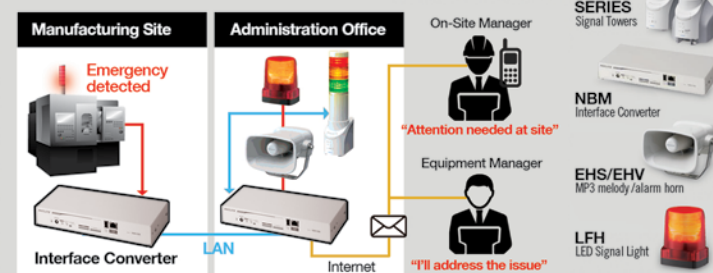
Network existing equipment

Improve response time by converting your existing equipment to network-enabled devices capable of notifying remote personnel via e-mail.

Manufacturing Site | **Administration Office** | **On-Site Manager**

Emergency detected

"Attention needed at site"

Equipment Manager

"I'll address the issue"

Interface Converter | LAN | Internet

NHL SERIES Signal Towers

NBM Interface Converter

EHS/EHV MP3 melody /alarm horn

LFH LED Signal Light

Factory Operation

Event monitoring is a critical part of network monitoring

The NHL Network Monitor Signal Tower is a powerful event monitoring device that interprets network status information using protocols, such as SNMP, RSH, and HTTP. The NHL uses visual, audible and email alerts to notify personnel of event conditions.

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.

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.

Application Monitoring

Gain control over your applications and detect problems earlier. 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.

Email Transmission

Send reports of up to 8 events via email The subject line and email body text can be customized to user preferences.

Easy Setup: The NHL setup interface can be easily accessed through a web browser; enabling alert configuration, remote test functions and firmware updates.

A variety of communication commands

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.

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.

CASE STUDY : Server Monitoring

For any data center, small errors on a server can quickly lead to a crash if not caught early. Typically, servers are located remotely from control rooms and it can be challenging to notify teams to halt operations before issues escalate. The NHL is able to monitor events on a network and alert teams in real-time with visual and audible signals, and email notifications.

Server Room | General Office

ERROR

ALERT

SOUND

CASE STUDY : Manufacturing Facility

The PATLITE NBM device is an interface converter that identifies error notifications from servers and digital outputs from machines. The NBM logs this data and sends SNMP Trap messages to the NHL to visually display statuses of both the network devices and machines and automatically notifies operators via email reports of these events.

NBM - Interface Converter

ERROR | LAN | DIGITAL OUTPUTS

SNMP TRAP

ALERT

SOUND | EMAIL