Network Monitor Signal Tower with MP3
NH-FV Series Installation Manual

PATLITE®

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Production end

Thank you very much for purchasing our PATLITE products. Read this instruction manual carefully prior to use. Keep this instruction manual in a safe place.
- This product requires installation, wiring and other setup work. Always have installation work performed by a professional contractor.
- Prior to installation, read this manual thoroughly before using this product to ensure correct use.
- Reread this manual when maintenance, inspection, repair or other work is required. If there are any questions concerning this product, refer to the contact information at the end of this document and contact your nearest PATLITE Sales Representative.
- For more details on installation, settings or wiring, download the **Complete Instruction Manual from our homepage.**

Homepage address	www.patlite.com

Always check the URL above, as it also includes information required for products and notifications about version upgrades.

■ To the Contractor
- Read this manual carefully prior to installation.
- If there are any questions concerning this product, refer to the contact information at the end of this document and contact your nearest PATLITE Sales Representative.

-Safety Precautions-

To prevent from personal injury, injury to others or property damage, the following precautions must be observed.
◆ The following symbols classifies the precautions into the following two categories depending on the degree of injury or damage caused by the failure to follow them:

⚠ **Warning** — Indicates an imminently dangerous condition: failure to follow the instructions may lead to death or serious injury.
- Request the installation and wiring to be accompanied by a professional contractor. If installation is done improperly, it may result in fire, electric shock, falling, or malfunction.

⚠ **Caution** — Indicates a potentially dangerous condition: failure to follow the instructions may lead to slight injury or property damage.
- Use a soft cloth dampened with water to clean the product. (Do not use thinner, benzine, gasoline or oil.)

◆ The following symbols used in this manual are explained below:

🚫 This symbol indicates "Prohibited", which should not be carried out by all means.

❗ This symbol indicates "Enforced", which should be observed and carried out by all means.

1 | Read this First (Safety Precautions)

⚠ **Warning**

🚫
- Do not modify or disassemble this product. Failure to follow these instructions could result in fire or electric shock.
- Do not use this product when there is condensation. Failure to follow these instructions could result in fire or electric shock.
- Do not leave or use this product while the LED unit are detached or broken. Doing so may result in electric shock.
- Do not touch the electric socket with wet hands. It may result in electric shock.
- Do not allow the voltage to exceed the specified voltage tolerance. Exceeding the voltage ratings beyond the rated voltage will cause internal circuitry damage. Moreover, possible fire may also occur.
- After attaching this product onto the machinery, Do not remove the cover, hook anything onto the product or use the product as a step When climbing onto the machinery. Failure to comply may result in falling off the machinery or product damage may occur.
- Do not disconnect and re-insert the DC plug while the AC adaptor is plugged in. Possible electric shock and damage may occur.

❗
- Always use a power supply within the operating voltage range. Failure to follow this instruction could result in fire or product failure.
- In the unlikely event that there is an abnormal situation such as smoke or odors emitting from the product, immediately cut the power supplied to the product. Continued use of the product in this condition could result in fire or electric shock.
- When plugging into the power receptacle, be sure to check there is no dust accumulation on the plug, and insert into the power receptacle completely. By allowing dust to adhere, it can be the result of fire or failure from short-circuiting.
- Since dust can accumulate After a long time, and with moisture, can cause the dust to become conductive, in order to prevent the phenomenon of ignition from dust accumulation, it is best to periodically wipe the transformer and socket terminal with a damp cloth. By allowing dust to adhere to the power receptacal, it can be the result of fire or failure from short-circuiting.
- When installing, wiring, or replacing parts, be sure to turn off the power first to prevent electric shock.
- When an unusual odor, sound or smoke comes out of the product, immediately disconnect the power, then contact your nearest PATLITE Sales Representative.
- In order to prevent serious effects on human life and property etc. caused by malfunction of this product, ensure sufficient safety such as using in combination with other equipment.

⚠ **Caution**

🚫
- Do not expose it to high temperatures, such as near a fire and do not use it in humid places. Moreover, do not use this machine in locations where corrosive or combustible gas is present.
- If foreign substances, such as water, medicine; or metals, such as copper, low carbon steel wire, fall into this product, please do not use it. Possible cause of failure may occur.
- Do not bend the power supply cables or signal wires recklessly. Failure to comply will result in possible malfunction due to disconnection.
- Do not install or run wiring near, or where equipment (such as solenoids, etc.) generate strong electric or magnetic fields, or near any power lines. Failure to comply may result in malfunction due to inductive noise.
- Do not use excessive force to set up the switches. Possible damage or malfunction may occur.
- Do not adjust switches with a sharp object. Possible damage to switches may cause it to be impossible to operate or cause partial movement of the contacts.

5 | Product Installation

This product is to be intalled on a level surface. Use the rubber feet accessory for this product when needed.
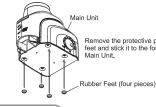
⚠ **Caution**

🚫
- This product is for indoor use only. Do not use it outdoors.
- When installing this product, please avoid installation in the following places:
  - where its exposed to direct sunlight.
  - where drastic temperature and humidity changes are present.
  - where its exposed to vibrations exceeding the specifications.
  - where its exposed to a salty air environment.
  - where its exposed to high concentrations of chemicals or oil mist.
  - where its exposed to rain, or other types of wet environments.
  - where high temperatures, such as near fire, or in a humid place.
  - where its exposed to an environment with poor ventillation.
  - where its exposed to corrosive gas.
  - where its exposed to dust, iron powder, etc.

■ Placing in an unfixed location
When necessary, adhere the rubber feet (four pieces) included to the bottom of this product.

■ When using the wall-mount bracket (Optional part)
Refer to the instruction manual for the wall-mount bracket mounting instruction when installing the wall-mount bracket.

Main Unit

Remove the protective paper off the rubber feet and stick it to the four corners of the Main Unit.

Rubber Feet (four pieces)

6 | Connection method

■ LAN Connection
Connect the LAN cable to this product.
- The LAN cable should be a category 5 twisted-pair cable (UTP or STP).
- The LAN cable can either be a straight or cross cable.

■ Lineout Connection
A mini plug cable can be connected to this product.
- Be sure to connect with the line-in input of the targeted equipment.
- A monaural cable can be used.

⚠ **Caution**

🚫
- Do not connect headphones, earphones, or passive speakers to the line-out. Failure to comply may result in failure to this product.
- Do not connect other than a monaural mini plug to the line-out. In cases where a stereo mini plug is used, the signal output is only from the left channel.
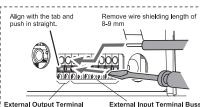- Do not connect any plugs, other than those for monaural or stereo. Failure to comply may result in failure to this product.

7 | Terminal Buss Wiring

⚠ **Warning**

🚫
- Be sure the power is turned off before performing any electric wiring activity. Failure to comply may result in electric shock.
- Double check the wiring to prevent mistakes. Failure to comply will result in equipment damage or fire.
- Wire the product so that the lead Wire does not protrude from the terminal. Failure to comply will result in damage due to short-circuiting.
- After wiring, verify that there are no loose wires, or they are easy to pull out. Input Terminal Buss and Output Terminal Mount Wiring.

Align with the tab and push in straight.

Remove wire shielding length of 8-9 mm

External Output Terminal Buss

External Input Terminal Buss

Input Terminal Buss and Output Terminal Mount Wiring
Wire the input terminal stand and output terminal mount in according to the following steps.
【Wiring Method】
(1) Use a minus driver (*) and push in the tab of the control unit's terminal buss tab.
(2) Insert a signal line lead wire into the slot. (Keep pushing the tab while inserting)
(3) Release the minus driver to lock the lead wire in place.

* Use the following type of minus driver.

Name	Tolerable Dimensions
Minus Driver	Blade diameter 1.7-2.1 mm Width 0.5-0.7 mm

NOTE
- The following are the gauge sizes used for the terminal buss:
  Solid Wire: Ø0.4 - 0.8 mm (AWG26-20) Twisted wire: 0.13 - 0.52 mm² (AWG26- 20)
- Be sure the voltage and current of the equipment connected to the Main Unit output does not exceed its rated values.
  Port 1 Maximum : 3 A, 30V DC   Inrush current 5 A or less
  Minimum : 1 mA, 5V DC (Reference Values)
- Be sure the voltage and current of the equipment connected to the Main Unit input does not exceed its rated values.
  Ports 1-4 (NPN Transistor) : Output ON current 6 mA or less
  Port Terminal OFF condition Voltage: 24V

⚠ **Caution**
- Please place this product on a level surface, such as a desk etc.
- When installing in high places, such as a top shelf, fix the Main Unit so it cannot move or fall.
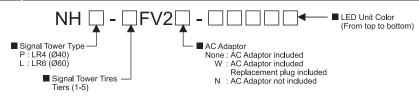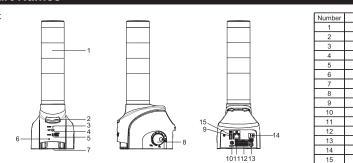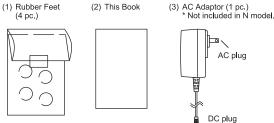
2 | Model Number Configuration

NH □ - □FV2□ - □□□□□ ← ■ LED Unit Color (From top to bottom)

■ Signal Tower Type
P : LR4 (Ø40)
L : LR6 (Ø60)

■ Signal Tower Tires
Tiers (1-5)

■ AC Adaptor
None : AC Adaptor included
W : AC Adaptor included Replacement plug included
N : AC Adaptor not included

3 | Part Names

■ Main unit

Number	Names
1	LED unit
2	"CLEAR" Switch
3	"RESET" Switch
4	"TEST" Switch
5	"MODE" Switch
6	Status LED Indicator
7	Speaker Diaphram
8	Volume
9	USB port
10	Line Out
11	Output Terminal
12	Input Terminal
13	DC Jack
14	Power Cable Clamp
15	LAN Connector

■ Accessories
(1) Rubber Feet (4 pc.)
(2) This Book
(3) AC Adaptor (1 pc.) * Not included in N model.

AC plug
DC plug

■ Included only in W model.
■ UL — Hole
■ CCC (China)
■ VDE (Europe)
■ KC (Korea) ■ UK
Line
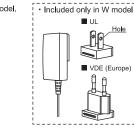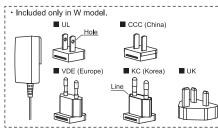
4 | About AC Adaptor

⚠ **Warning**

❗
- When using an AC adaptor other than our AC adapter (ADP-001), be sure to use the AC adaptor that conforms to the recommended specifications. Using an AC adapter that does not meet the recommended specifications could result in fire or product failure.
- Be sure to use the AC adaptor equipped with the overcurrent protection. Using an AC adaptor that does not have an overcurrent protection function could result in fire or product failure.
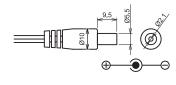
Use the AC adaptor included in the product. To order an AC adaptor separately, purchase our AC adaptor (ADP-001).
When using N model (AC Adaptor not included) and AC adaptor other than ADP-001, use AC adaptor with the following specifications.

[Recommended AC adaptor specification]
DC Secondary Output
Voltage	: 24V DC ±5%
Current	: 0.75 A or more and 1A or less (With overcurrent protection)
Plug Length	: 9.5 mm or more
Plastic Housing	: 10 mm dia or less
Plug Connector Outer Diameter	: 5.5 mm dia.
Plug Connector Inner Diameter	: 2.1 mm dia.

8 | Power Supply Input

Attach the power plug for this product in accordance with the figure below.
It takes about 60 seconds from the time the power has been applied until start-up is complete.

Main Unit
① Cable Clamp

【Applying Power】
(1) Loosen the screws with a phillips screwdriver and remove the power supply cable clamp.
(2) Pass the AC Adaptor power cable through the cable clamp.
(3) Fix the power supply cable clamp with a screw.
(4) Insert the DC plug into the Main Unit.
(5) Insert the AC Adaptor into an electric socket.
(6) Power is switched on, a Signal Tower does an all-points Light about 1 second, and status LED in the lower part of the front face of this product lights up.

9 | Network Setup

Once the power supply is switched on and startup is complete (as shown below), enter the IP address of this product into the web browser address section.

The factory default IP Address is: **192.168.10.1**

When the login screen is displayed, enter "patlite" in the password field, then click the "Login" button.
The default password is "patlite". Please be sure to change the password to prevent any security breaching.
Use the instruction manual downloaded from our website for the setup instructions of this product.

NOTE
- Even if an address is entered, if the login screen is not displayed, changing the personal computer Network settings may be necessary.
  When establishing a Network setting to re-connect , or to initialize it with the Web setup tool for this product, the contents are as followed:

  IP address of PC   192.168.10.2-254
  Subnet Mask   255.255.255.0
  Default Gateway   Setup is unnecessary when making a direct connection.

  When connecting it with a Network, be sure to check with the network administrator.

<Web Browser Address Entry>
http://192.168.10.1/index.htm

Please carefully read the owner's manuals that are posted on our website for the setting of various functions after logging in.

10 | Conformity requirements

■ This product has been tested and found to comply with the limits for a Class A device.
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
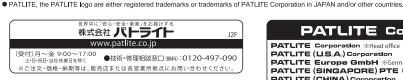This product must not be used in residential areas.

■ Conformity requirements for FCC Part 15 SubpartB:
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules and RSS-Gen of IC Rules.
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

● The images in this manual may vary in comparison to the actual product and are only for the purpose of illustration.
● Specifications may change without notice due to continual product improvement.
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