



# nWall Hardware Manual

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## Scope

This guide describes how to install an nWall device and how to connect the device to the network.

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# Chapter 1

# Important safety instructions

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## Safety warnings

**Warning:** When using electrical products, basic cautions should always be followed, including the following:

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding plug. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
- 11. Only use attachments/accessories provided by the manufacturer.
- 12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Never break off the ground pin. Write for our free booklet *Shock Hazard and Grounding*. Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
- 16. If this product is to be mounted in an equipment rack, rear support should be provided.
- 17. Control panel devices, including the xControl range, D series and nTouch 60, are designed for mounting in NEMA metal enclosures. Grounding to the front plate is required.
- 18. Note for UK only: If the colors of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
  - a) The wire that is colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol,
  - b) colored green or colored green and yellow.
  - c) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.

- d) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
- 19. This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
- 20. The on/off switch in this unit does not break both sides of the primary mains. Hazardous energy can be present inside the chassis when the on/off switch is in the off position. The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- 21. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

Duration Per Day in Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
11/2	102
1	105
1/2	110
<sup>1</sup> /4 or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

SAVE THESE INSTRUCTIONS!

# Chapter 2 Before you start

## In This Chapter

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## Important network considerations

This product is designed to operate on a network backbone or infrastructure. The design, implementation and maintenance of this infrastructure is critical to correct operation and performance of the product. Peavey Electronics Corp does not support nor service network cabling, hubs, switches, patch bays, wall plates, connector panels or any other type of network interconnect device. Please ensure that these components and their associated installation techniques have been properly designed and installed for audio and network applications.

## **Warranty Registration**

Please take a few minutes and fill out the warranty registration card. Although your warranty is valid without the registration, the information you provide with the form is crucial to our support group. It enables us to provide better service and customer support, and to keep you informed of new product updates.

**Tip:** Refer to the warranty statement at the rear of this manual for details of what your warranty includes and what the limitations are.

## What you will need

Phillips head screwdriver to fit NEMA enclosure screws.

## What's in the box?

In the box you will find:

- The nWall
- Four screws, which are used to securely install the nWall in a NEMA electrical enclosure.

## **Thank You!**

Thank you for purchasing this MediaMatrix product. It is designed to provide years of trouble-free operation and high quality performance. We are confident that you will find this product and other MediaMatrix products to be of the highest quality.

# Chapter 3 Introduction to nWall

## In This Chapter

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## Description

The nWall is a CobraNet interface panel with both XLR and TRS mini jack connectors. The nWall 2.0 has two microphone/line level input channels. The nWall 0.2 has two analog line level output channels. The nWall 1.1 has two analog line level input channels and two analog line level output channels.

The nWall eliminates the need for long runs of analog audio cables terminated in racks of patch bays, as typically seen in ballrooms and convention centers. As the connection to the nWall uses CAT5e UTP cable with network standard RJ45 crimp connectors, the installation time, number of terminations required and associated cost are all minimized.

In the example below, the audio from the mics is made available directly onto the CobraNet network without the need for a CAB or NION in the same physical location. The NWare project is hosted on the nControl, allowing the NWare user to remotely assign a bundle number to the nWall for audio transmission.

**Note:** If you want to control and monitor an nWall using an NWare project, you will need an nControl or nTouch 180. If you simply want to transmit or receive audio using an nWall, these devices are not required. You can use CobraNet Discovery to configure and monitor the nWall.



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## Features

### All models

- Digital patching using MediaMatrix NWare, any number of nWall panels can be patched to any number of NION processors on the fly, eliminating the need for expensive patch panels and greatly reducing setup time between events.
- Analog to digital / digital to analog conversion at the wall panel reduces problems with buzz, hum, ground loops and other cable issues, also eliminating the need for isolation and impedance matching interfaces.
- Structured cabling to greatly reduce critical path delivery time and costs.
- Power over Ethernet (PoE).
- Low power requirements.
- 2-gang NEMA mount.
- CobraNet audio transport via switched network and RJ45.
- Easy wiring and installation.
- Cost effective.

#### nWall 0.2



- 2 balanced XLR outputs output level selectable via front panel 3 step rotary switch allows quick source setup at the wall panel. Latchless connection minimizes mechanical damage.
- 2 unbalanced TRS 1/8th inch (3.5mm) mini jack outputs for PC and Aux consumer line level audio products using off the shelf consumer audio cables.

## nWall 1.1



- 1 balanced XLR input connector selectable input sensitivity via rotary switch. Latchless connection minimizes mechanical damage.
- 1 balanced XLR output connector selectable output level via rotary switch. Latchless connection minimizes mechanical damage.
- 1 unbalanced TRS 1/8th inch (3.5mm) mini jack input connector for Electret condenser and dynamic microphones, plus line level audio products.
- 1 unbalanced TRS 1/8th inch (3.5mm) mini jack output connector for PC and Aux consumer line level audio products.



- 2 balanced XLR inputs mic/line selectable gain via front panel 3 step rotary switch allows quick source setup at the wall panel. Latchless connection minimizes mechanical damage.
- 2 unbalanced TRS 1/8th inch (3.5mm) mini jack inputs summed mono for PC and Aux consumer line level audio products using off the shelf consumer audio cables.

#### nWall 2.0

## **Rear Panel Connections**

The rear panel contains a LAN socket for CobraNet and control communications on 100Base-T Ethernet. It requires a Power-over-Ethernet (PoE) injector or PoE via an IEEE 802.3af capable network switch.



# Chapter 4

# Infrastructure design considerations

## In This Chapter

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## Introduction

Before you start the installation, it is important to consider the implications for your network and power supply system. The infrastructure must be designed and installed correctly, in order to provide reliable and error-free performance.

Each nWall unit requires a network connection to a network switch. There are several configurations you can use, allowing for a degree of flexibility in your installation.

## 2-gang NEMA electrical enclosures

nWall units are designed to mount in standard NEMA electrical enclosures. This includes boxes designed for fixed installation into sheet rock, wood or masonry construction. All cabling and terminations should be installed into EMT conduit, securely coupled to the mounting box and system ground plane. However, the nWall is not grounded through the network cable. It should be installed in a metal 2-gang NEMA electrical enclosure that is grounded according to the directives set forth by the authority having jurisdiction.

## Providing power to nWall devices

Power can be supplied to nWall devices via an injector or Power over Ethernet (PoE) switch. The nWall devices do not require separate power connections. An example is shown below.



# Chapter 5

# Installing and connecting the nWall

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## Installing the nWall

1. Insert a cable from a CobraNet PoE switch into the back of the nWall, as shown below.



- 2. Carefully place the nWall into a 2-gang NEMA box.
- 3. Insert and tighten the screws.



## Connecting audio devices to the nWall

#### >> To connect input devices

- 1. Under *mic input*, plug balanced sources (microphones and line level devices) into the XLR connector(s) and unbalanced sources (computers, personal music players, etc.) into the 3.5mm TRS mini jack(s).
- 2. Select the mic gain level using the rotary switch(es).

#### >> To connect output devices

- 1. Under *line output*, connect devices to the XLR connector(s) and 3.5mm TRS mini jack(s).
- 2. Select the output level using the rotary switch.

## Assigning an IP address using CobraNet Discovery

In order to contact an nWall to assign bundle numbers or change other CobraNet settings, the device must be assigned an IP address. This must be done using CobraNet Discovery.

CobraNet Discovery (DISCO) is a monitoring, troubleshooting and maintenance tool for CobraNet networks. It uses a standard Ethernet network interface card (NIC) to connect to the network. The application discovers devices and displays status information for each of them. It also allows you to configure devices and perform firmware upgrades.

If you have installed DISCO, you can refer to the user manual for information on how to use the software. It is installed in the same folder as the program. Also see *http://www.cobranet.info/downloads/disco* (*http://www.cobranet.info/downloads/disco*).

Once you have assigned an IP address to an nWall, CobraNet Discovery will retrieve information from the nWall, including the name and description, and allow you to specify configuration settings.

When you have configured the nWall, we recommend using the persistence option to ensure that the same settings are used automatically when the nWall is power cycled.

The procedure below assumes that you are using a PC connected to the CobraNet network and CobraNet Discovery is installed and running.

**Note:** The steps in the procedure below must be completed for each individual nWall. If an nWall is replaced, you will need to repeat the procedure.

#### >> To set an IP address

1. Open CobraNet Discovery and wait for the nWall to appear in the list of devices on the CobraNet network.

The nWall MAC address starts with 00:1c:f4:02. It is normally printed on a label attached to the rear of the unit.

2. If you want to assign an IP address manually to the nWall, right-click the nWall device, click **New IP Address**, then specify an IP address.

If you want an IP address to be assigned automatically, you can use the *Auto Assignment* feature to assign IP addresses to all devices on the CobraNet network automatically. On the *Tools* menu, click *Options*, and then select the *Enable Auto Assignment* check box.

3. Click OK.

When an IP address has been assigned, CobraNet Discovery will retrieve the name and description from the nWall. This information can then be used in NWare to identify the device on the network.

#### >> To ensure that the same settings are used when the unit is power cycled

- 1. Right-click the nWall device, and then click **Configure**.
- 2. Click **Advanced** and then select the **Persistence** check box.
- 3. Click OK.
- 4. Click OK.

## Assigning a bundle number using CobraNet Discovery

Once you have assigned an IP address to an nWall, CobraNet Discovery will retrieve information from the nWall, including the name and description, and allow you to specify configuration settings.

When you have configured the nWall, we recommend using the persistence option to ensure that the same settings are used automatically when the nWall is power cycled.

The procedure below assumes that you are using a PC connected to the CobraNet network and CobraNet Discovery is installed and running.

**Note:** The steps in the procedure below must be completed for each individual nWall. If an nWall is replaced, you will need to repeat the procedure.

#### >> To set a transmit or receive bundle number

- 1. In the list of devices, right-click the nWall device, and then click **Configure**.
- 2. Double-click an RX or TX entry in the bundle list, and then specify a bundle number in the **Bundle** box.

**Note:** Be sure to *check which model of nWall is being configured* (on page 9). Some devices support transmission and reception, others only one or the other mode.

- 3. Click OK.
- 4. Click OK.

#### >> To ensure that the same settings are used when the unit is power cycled

- 1. In the list of devices, right-click the nWall device, and then click **Configure**.
- 2. Click **Advanced** and then select the **Persistence** check box.
- 3. Click OK.
- 4. Click OK.

## Assigning a bundle number using NWare

#### Setting up the nControl or nTouch 180

In order to monitor and configure an nWall from NWare, you will need an nControl or nTouch 180 connected to both the control network and the CobraNet network. The example below shows the required setup for an nControl.



PC running NWare

Before you start using NWare to connect to the nWall, it is important to check that the network settings for the connection to the CobraNet network are correct. In the procedure below, it is assumed that *Local Area Connection 1* is connected to the control network and *Local Area Connection 2* will be used for the CobraNet network. For information on the nControl network ports, see *Rear network ports* in the *nControl Hardware Manual*.

#### >> To set up the nControl or nTouch 180

- 1. Open a web browser, then connect to the nControl or nTouch 180 web interface.
- 2. On the **Network** screen, under **Local Area Connection 2**, check that the network settings are correct for the CobraNet network.

If no DHCP server is available, you will need to use a static IP address.

3. Click **Set** to confirm the action.

You will be asked to log on.

4. Specify your username and password. The default username is *superuser*; it has no password.

### Setting the bundle number in NWare

- 1. In the device tree, expand the Plugins / Peavey / Hardware / nWall folder.
- 2. Drag an **nWall** device over to the design page.

Select an nWall device that matches the model of nWall you are using.

- 3. Double-click the nWall device block to show the control surface.
- 4. In the **IP address** box, type the IP address of the nWall.

**Tip:** If you do not know the IP address, you can use a different method to contact the nWall from NWare. For more information, see *Connecting to the nWall when you do not know the IP address* (on page 22).

When NWare contacts the nWall, the Link LED will be lit. If the nWall is transmitting or receiving audio, the *Transmitting* and *Receiving* LEDs will be lit.

nWall 1.1			
IP address	192.168.1.23	Link	•
Bundle	21204	Transmitting	0
Bundle	21202	Receiving	0

5. If you want to use different bundle numbers to those shown, type the new bundle numbers in the **Bundle** boxes.

#### Connecting to the nWall when you do not know the IP address

If you do not know the IP address of the nWall, you can use the Agent Discovery device in NWare to discover the nWall on the CobraNet network, and retrieve its IP address.

A range of different identifiers can be used to locate the nWall. These are specified on the control surface of the Agent Discovery device, in order to start the discovery process.

- MAC address
- Sys Object ID
- Sys Name
- Sys Contact
- Sys Location.

This method utilizes the BOOTP and SNMP features of the nControl or nTouch 180. It is especially helpful and suited for larger installations, as it uses switch port discovery.

**Note:** Even though the discovery process will find the IP address of the nWall, you will still need to specify an IP address range that includes the IP address of the nWall.

#### >> To contact the nWall when you do not know the IP address

- 1. In the device tree, expand the **Hardware** folder.
- 2. Drag an **nControl** or **nTouch 180** device over to the design page.
- 3. In the device tree, expand the **Plugins / Peavey / Hardware / nWall** folder.
- 4. Drag an **nWall** device over to the design page.
- 5. Open the device properties on the nControl / nTouch 180.
- 6. Select the **CobraNet BOOTP** check box.
- 7. Select the **SNMP Discovery** check box.
- 8. Click OK.
- 9. On the **Configure BOOTP Server** dialog box, specify an IP address range for the nWall nodes on the CobraNet network.
- 10. Click **OK**.
- 11. On the **Configure Discovery Server** dialog box, specify the IP address range to use with BOOTP, and select the **Switch port support** check box.
- 12. In the **Update period (mins)** box, type a value for the interval between scans for devices on the network.
- 13. Click **OK**.
- 14. In the device tree, expand the **nControl Devices / SNMP Components** folder, and then drag an **Agent Discovery** device over to the design page.

- 15. Select Wire mode  $\aleph$ , then wire the first output wiring node on the **Agent Discovery** block to the input wiring node on the **nWall** block.
- 16. Deploy the project and specify an identifier for the nWall using the **Agent Discovery** device.

Tip: You	can use the l	Sys Name	setting, 1	for example,	which is	<i>CS18100</i> , b	y default.
----------	---------------	----------	------------	--------------	----------	--------------------	------------

_				Agentide	
	CS18100		Identifier	Sys Name 🔍 🔻	Category
	Conflict	0	Discovered	10.18.53.117	IP address
	Conflict	0	Discovered	10.18.53.117	IP address

When the nWall has been discovered, its IP address will be displayed in the *IP address* box on the Agent Discovery device, and on the nWall device. When NWare contacts the nWall using the IP address, the Link LED on the nWall device will be lit.

## **Replacing an nWall**

This section describes what to do when you want to physically remove an nWall from the CobraNet network and replace it with another nWall. You may want to do this, for example, to provide audio inputs as well as outputs at a particular location, and this requires a different model of nWall to be used.

#### Disconnecting the current nWall

- 1. Physically locate the nWall.
- 2. Make a note of which audio cables are plugged into which ports on the front of the nWall, so they can be plugged into the same ports on the replacement unit.
- 3. Unplug any audio cables connected to the front panel of the nWall.
- 4. Remove the screws securing the nWall into the NEMA box.
- 5. If several CobraNet network cables are nearby, make a note of which one is being used with the nWall.
- 6. Unplug the CobraNet network cable from the back of the nWall.

#### **>>** Connecting the replacement nWall

- 1. Connect the new nWall to the CobraNet network.
- 2. Fasten the screws to secure the nWall into the NEMA box.
- 3. Plug the audio cables into the new nWall.

#### >> Specifying the IP address and bundle numbers

- 1. Assign an IP address to the nWall (on page 19).
- 2. Assign a bundle number to the nWall using *CobraNet Discovery* (on page 20) or *NWare* (on page 21).

# Warranty statement

#### MediaMatrix® PEAVEY ELECTRONICS CORPORATION DOMESTIC (USA) LIMITED WARRANTY Effective Date: May 1, 2005

#### What This Warranty Covers

This Warranty covers defects in material and workmanship in Peavey MediaMatrix products purchased and serviced in the United States of America (USA).

#### What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized MediaMatrix Integrator. This warranty does not cover associated costs incurred from servicing equipment, including, but not limited to, travel, jobsite-related costs, fabrication, freight, loaner equipment, installation, cabling or harnessing, mounting materials or other variable costs.

#### Who This Warranty Protects

In applications where the product is sold *over the counter*, this Warranty protects the original retail purchaser. In applications where the product is part of an integrated system, and such system is warrantied by the integrator as a complete assembly, this Warranty protects only the system integrator.

#### What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for warranty service, the consumer must pay initial shipping costs. If the repairs are covered by warranty, Peavey will pay the return shipping costs.

#### How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser or on the date received by the system integrator. (See *Who This Warranty Protects*, above). The duration of the Warranty varies by product as summarized below.

- 5 Years MediaMatrix® DPU cards, NION™ Processing Nodes, CABs, I/O cards, Cinema Processors, Power Amplifiers, Pre-Amplifiers, Mixers, Electronic Filter Sets and Dynamics Processors.
- 1 Year MM Series Cardframes, MF Series Cardframes, ControlMatrix<sup>™</sup> Host Processors, Servers and Controllers, nControl, nTouch 180, nTouch 60, xControl LCDs, nWall, VCAT, VCAT-HD, VGA-2, VSC, D4S, D1V, Remote Control Panels, Plates, Paging Stations, Ambient Sense Devices and other devices installed in user-accessible locations.
- 90 Days Loudspeaker Components (including speakers, baskets, drivers, diaphragm replacement kits and

passive filter networks.) and all Accessory Products

#### How To Get Warranty Service

End Users: Take the defective product and your dated sales receipt or other proof of purchase to your Authorized MediaMatrix Systems Integrator or Authorized Peavey Service Center. System Integrators: Ship the defective product, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301, 601-483-5365. Include a detailed description of the problem, the name and location of the jobsite and a copy of your invoice as evidence of warranty coverage. Please include a complete return shipping address.

#### Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

#### **Exclusions of Damages**

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. If you have any questions about this warranty or service received, or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365. Features and specifications subject to change without notice.



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