

XRackPro Noise Reduction Enclosure Cabinet

Quick Start Installation & Owner's Manual Model XR-NRE2



XRACK™

s

Table of Contents

Welcome.....	2
Packing List.....	2
Tools Required.....	2
Planning Your Installation.....	3
Installation.....	4
Step 1: Opening the XRack.....	4
Sep 2: Adjusting the Vertical Mounting Rails.....	4
Step 3: Preparing Mounting Positions.....	4
Step 4: Installation Server Equipment.....	4
Step 5: Installing the PDU.....	5
Step 6: Routing Cables.....	5
Step 7: Closing and Securing the XRack.....	5
Other Features.....	6
Warranty.....	7

Welcome

Thank you for your purchase of GizMac's XRack Noise Reduction Enclosure. GizMac prides itself in producing the highest quality accessories for the rackmount equipment market. Your satisfaction is of the utmost importance to us. Please take a few moments to review this manual and familiarize yourself with the XRackPro's simple installation procedures. If you have any questions or concerns, please call us (310) 320-5563 or email us at Support@GizMac.com and we will be glad to assist you.

Packing List

- 1-Xrackenclosure
- Hardware Kit :
 - 1 - InstructionManual
 - 24 - 10/32 Cage Nuts and Screws
 - 8 – 2 inch diameter foam rings with 4 different sized holes ranging from 3/8" to 1"
 - 2 - Plastic wire grommets
 - 2 - Keys for front and rear door latches
- 3- High-quality ball bearing fans units — pre-installed
- 4- Heavy-duty Carpet-safe casters — pre-installed
- 4-Vertical Equipment Mounting Rails — pre-installed

Tools Required

- #2 Phillips Screw Driver
- Adjustable Wrench



Planning your Installation

To insure quick and easy installation of XRack and your equipment, it is recommended that you plan the allocation of space in the XRack and the location of the XRack itself.

Some points to consider:

1. Ideally, equipment should be installed with 1U of space between equipment for maximum cooling efficiency.
2. RAID systems should generally be installed below servers.
3. Install power distribution units in the bottom rack position at the rear of the unit.
4. Uninterruptible power supplies (UPS) should generally be installed in the bottom most rack positions. Space should be left between a UPS and other equipment.
5. The XRack itself should be located so that there is a 1' minimum clear space on all sides of the unit to allow for proper air flow into XRack's air intake vents.
6. The best acoustic noise reduction is achieved when XRack is not located close to walls. Walls will reflect and amplify the small amount of sound produced by the XRack fans.
7. Xrack's adjustable vertical mounting rails are pre-located ideally for maximum depth. The default settings keep the front of the rackmount equipment fairly close to the glass door for easy viewing of the status lights and to allow for space in the rear for cabling. If you are installing equipment with a larger front profile, such as video decks with front connections, you may want to consider repositioning the vertical mounting rails rearward prior to installing server equipment.
8. It is recommended that blank vertical positions that remain after installation is complete be filled with optional blank filler panels (available at XRackPro.com). This ensures proper airflow into the front air intakes of the equipment.
9. If you plan to place equipment on top of XRack, it is recommended that you purchase an optional Equipment Isolation Mat (available at XRackPro.com). This specially designed mat protects the finish of XRack and isolates potentially damaging vibrations from occurring between the XRack and your equipment.
10. Installation of equipment into XRack is much easier with the aid of an assistant.



Installation

Before installing any units into the XRack, please visually inspect your XRack.

Step 1: Opening the XRack

- Open the front and rear doors by pressing in on the bottom of the latch over the key hole, this releases the door latch. Pull to open.
- Remove the side panels by sliding the side panel latches toward the center of the side panel and tipping the top out toward you and then lift the doors off the locating pins at the bottom. If the door does not open, the locking tabs, located on the inside vertical edges of the side panels, may be locked. To unlock them, reach inside the XRack and rotate the security latches inward.
- Remove the hardware kit from the inside of the XRack.

Step 2: Adjusting the Vertical Mounting Rails

NOTE: Take the time to ascertain that the positioning of the vertical mounting rails allows sufficient clearance for these devices. Some devices that require cable connections in the front may require the vertical mounting rails to be positioned further rearward. The rails are pre-positioned for deeper rackmount equipment (such as 1U servers).

- If necessary, loosen the two retaining bolts securing each of the vertical rails and slide the rails into the proper position and retighten the retaining bolts.
- If you move the rails, ensure that they are repositioned parallel to each other (i.e., the same distance from the front or rear of the XRack).

Step 3: Preparing Mounting Positions

NOTE: XRack ships with 24 cage nuts and screws, used to mount equipment to the vertical mounting rails. Determine the total number of cage nuts and screws needed for installation of all equipment and optional filler panels. You may need to purchase additional cage nuts and screws (available at www.XRackPro.com).

- Determine the location of all equipment to be installed, including the Power Distribution Unit (PDU) and any optional filler panels.
- Note how many screws are required for each unit. Use the vertical rail markings to allocate space. Each unit installed should occupy one or more vertical mounting spaces as marked.
- Press the cage nuts in place into each location that a screw will be used to secure equipment. The cage nuts install by firmly pressing them into place from the inside out on the vertical mounting rails. All four rails are numbered to ensure that you achieve proper alignment of mounting positions.

Step 4: Installing Equipment

- Install equipment into the XRack. The XRack conforms to EIA/NEMA standards for 19" wide rack mounting equipment. Follow manufacturer instructions for each piece of equipment for rack mounting in a four-post 19" rack. **DO NOT CONNECT ANY CABLES YET.**

Step 5: Installing the Power Distribution Unit (if included or purchased separately from GizMac Accessories)

NOTE: The optional Power Distribution Unit (PDU) is not a surge protection device or a line filter. It is a passive power strip. It is highly recommended that all computer equipment be connected to a high-quality line-conditioning surge-suppression device or Uninterruptible Power Supply (UPS). The PDU has several power outlets; one will be used for XRack's cooling fans. You may need to purchase an additional PDU (available from www.XRackPro.com) if the remaining number of outlets are not sufficient for your installation.

- Install the Power Distribution Unit. Secure with 4 screws.

Step 6: Routing Cables

NOTE: XRack includes 6 large knockouts at the rear of the unit (3 on top, 3 on the bottom). These knockouts allow you to run power and data cables out of the XRack. You should only open as many as are required to accommodate your specific cabling needs. Two plastic grommets are included for these openings. Additional grommets are available from XRackPro.com if needed.

Additionally, XRack includes 8 foam rings that resemble donuts, they are used to seal the knockout opening around exiting wires to help maintain the sound dampening qualities of the XRack. These rings come in 4 sizes. The center holes vary in size to accommodate various sized bundles of cabling. XRack also includes 2 plastic grommets that protect exiting wires from contact with the metal edge of the knockouts. The foam rings and plastic grommets are used together.

- Determine which knockouts would be best to run cables out of the XRack. Use the bottom knockouts if possible.
- Remove the pre-cut circle of foam lining above the chosen knockout(s). Remove desired knockout(s) by pressing firmly on one side of the knockout to break it loose. Twist back and forth until the metal nibs holding them in place separate.
- Press the plastic grommets into the knockout holes from the outside.
- Run required cables through the holes, including the power cord for the PDU if installed.
- XRack includes wire-management clips on the rear vertical mounting rails, use these to help organize your cables inside the rear of the XRack.
- Make all cable connections desired to your server equipment.
- Wrap an appropriately sized foam ring around the bundle of cables exiting the XRack on the outside and press the foam ring into the plastic grommet. Be certain it is fully seated.
- Connect the XRack cooling fan power cord (located on the rear door) to the UPS or PDU (if installed), or run it through an opening to the outside. It is required that the XRack unit be plugged into an Uninterruptible Power Supply if used.

Step 7: Closing and Securing the XRack

NOTE: There are several ways of securing the XRack. First, the front and rear doors have key locking latches, the side panels have swivel security latches which are locked once the side panels are installed and prior to closing the front and rear doors. Finally, XRack uses hidden hinges to help prevent unauthorized access.

- Reattach the side panels by placing them, bottom first, onto the fixed pins on the bottom side ledge of the XRack and tipping the top closed. The side latches will spring shut – check to be sure they are pressed fully outward.
- Optionally, reach inside the XRack and rotate the security latches outward to lock the side panels.
- Close the front and rear door, press the latch closed and optionally lock the latches with the keys provided.

Other Features

Removable Rear Door

The rear door has a quick release hinge. To release simple pull down on the top spring loaded hinge and lift the door up and out. Please be sure to unplug the fan harness before removing the door. The rear door also includes a locking latch that is keyed alike to the front door mechanism.



Warranty

The GizMac XRack has a one-year limited warranty on electrical components and a lifetime warranty on the enclosure for defects in materials and workmanship. For complete warranty information please visit our website at XRackPro.com.

Thank you!

GizMac Accessories, LLC

2807 Oregon Court

Building D-5

Torrance, CA 90503

Telephone: 310-320-5563

Fax: 310-347-4166

Web Site: www.XrackPro.com

Email: sales@XRackPro.com

Toll Free Technical Support: 1-800-475-1677

Tech Support Hours: 9am to 5pm Pacific Standard Time-Monday through Friday

Tech Support Email: technicalsupport@XRackPro.com

