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› [VEVOR](#) /

› [VEVOR 16U Open Frame Network Rack User Manual](#)

VEVOR SPT-504-16A

VEVOR 16U Open Frame Network Rack User Manual

Model: SPT-504-16A

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient assembly, operation, and maintenance of your VEVOR 16U Open Frame Network Rack. Please read this manual thoroughly before installation and retain it for future reference. This rack is designed to organize and secure various networking, IT, and AV equipment in both floor-standing and wall-mounted configurations.

2. SAFETY INSTRUCTIONS

- Always ensure the rack is installed on a stable, level surface when floor-standing.
- When wall-mounting, use appropriate hardware for your wall type and ensure the wall structure can support the rack's weight plus the maximum load capacity.
- Do not exceed the specified load capacities: 500 lbs (226.8 kg) for floor-standing and 200 lbs (90.7 kg) for wall-mounted configurations.
- Distribute equipment weight evenly within the rack to maintain stability.
- Exercise caution when handling heavy equipment. It is recommended to have assistance during assembly and installation.
- Keep children and pets away from the rack during assembly and operation.
- Ensure all screws and fasteners are securely tightened before loading equipment onto the rack.

3. PACKAGE CONTENTS

Verify that all components are present before beginning assembly:

- 2 x Trays (Vented Shelves)
- 1 x Screw Set (Includes self-tapping screws and other fasteners)
- 1 x Top Panel

- 16 x Cage Nuts
- 1 x Grounding Wire
- 1 x User Manual
- Main rack frame components (vertical posts, base, etc.)

4. SETUP AND ASSEMBLY

Assembly of the VEVOR 16U Open Frame Network Rack is required. Follow these general steps for construction. A power drill with appropriate bits is recommended for tightening self-tapping screws.

1. **Unpack Components:** Carefully remove all parts from the packaging and lay them out on a clean, flat surface. Verify against the package contents list.
2. **Assemble the Frame:** Connect the vertical posts to the base and top panels using the provided screws. Ensure all connections are aligned and tightened securely. The rack utilizes self-tapping screws; ensure the screw is started straight and tightened with steady pressure to cut its own threads smoothly.
3. **Install Shelves:** Attach the vented shelves at your desired height using the cage nuts and screws. The rack features pre-drilled square and threaded holes for flexible equipment mounting.
4. **Grounding:** Connect the grounding wire to the designated grounding point on the rack for electrical safety.
5. **Mounting Options:**
 - **Floor Standing:** Place the assembled rack on a stable, level floor. Ensure it is not wobbly before loading equipment.
 - **Wall Mounted:** Identify suitable wall studs or use appropriate wall anchors. The rack includes wall mount installation holes. Securely fasten the rack to the wall, ensuring it can support the rack's weight and the maximum wall-mounted load capacity of 200 lbs (90.7 kg). Note that wall mount installation does not extend the depth of the rack.

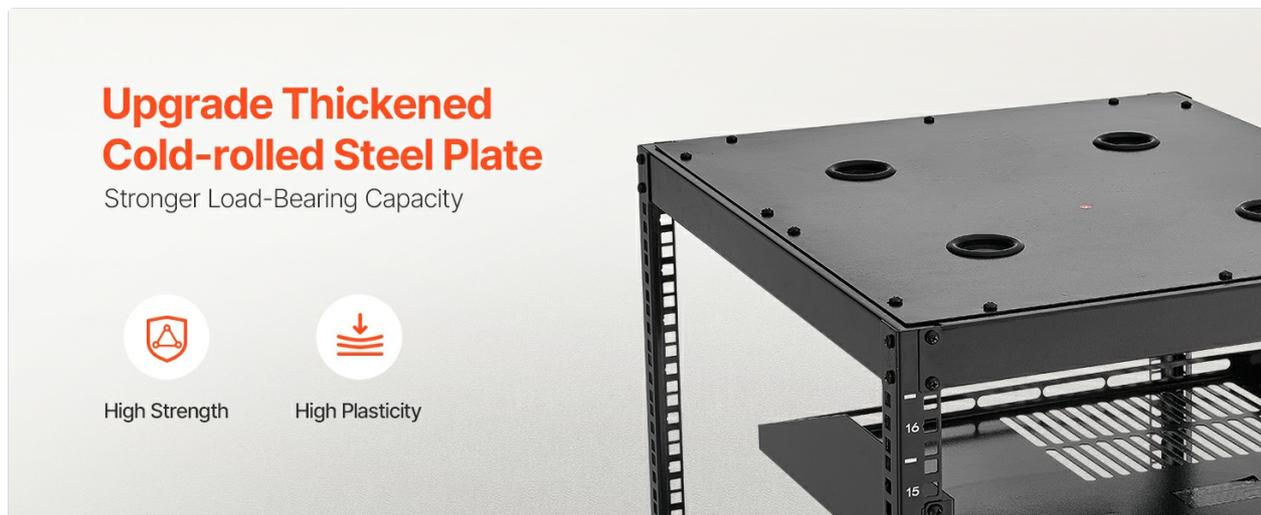


Figure 1: Rack components and features, highlighting grommet holes for cable routing and wall mount installation points.

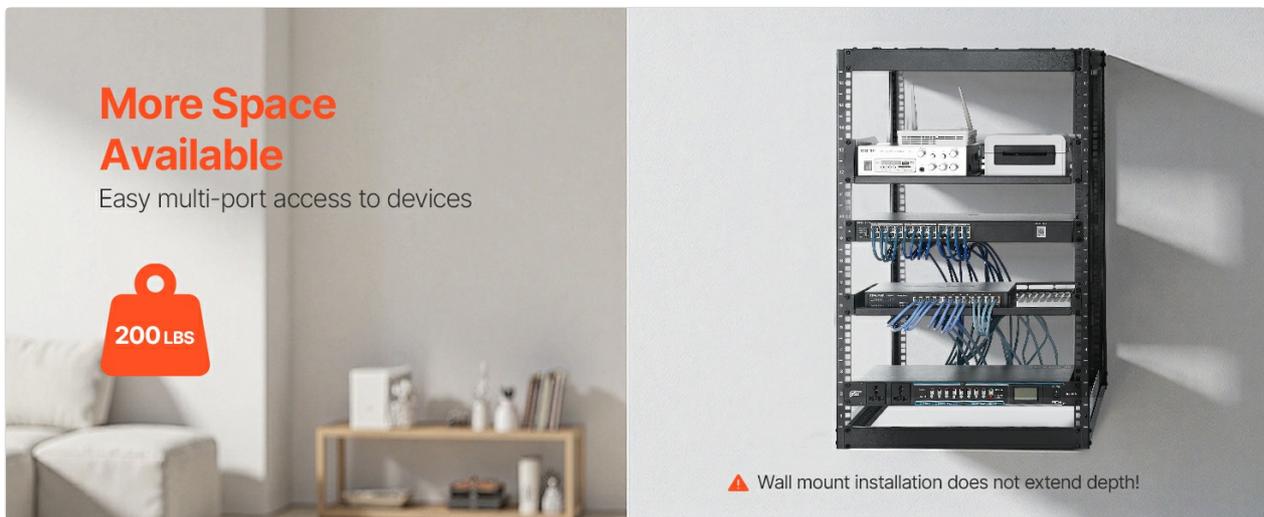


Figure 2: Detail of the rack's construction, emphasizing the top shelf, vertical posts, and material thickness for stability.

5. OPERATING INSTRUCTIONS

5.1. Equipment Installation

- Install your servers, network equipment, IT equipment, and AV gear into the rack using appropriate mounting hardware (not included unless specified).
- Ensure equipment is securely fastened to prevent movement or accidental dislodgement.
- Distribute the weight of your equipment as evenly as possible across the rack units and shelves to maintain balance and stability.

5.2. Load Capacity

Adhere strictly to the following load capacities:

- **Floor-Mounted Load Capacity:** Up to 500 lbs (226.8 kg)
- **Wall-Mounted Load Capacity:** Up to 200 lbs (90.7 kg)

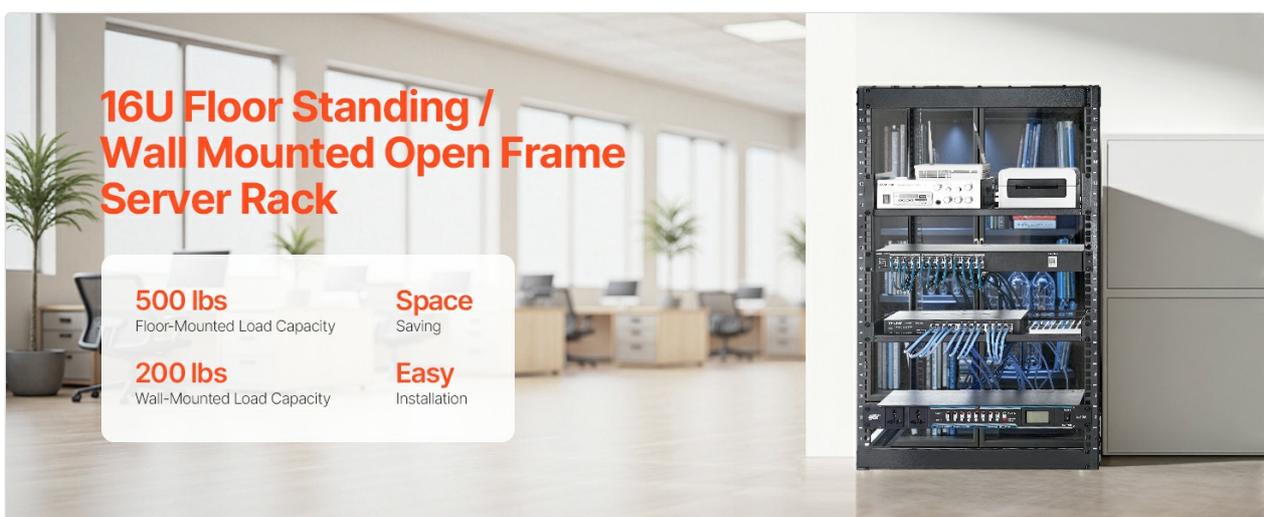


Figure 3: Visual representation of the rack's maximum load capacities for different mounting types.

5.3. Cable Management

The top panel of the rack features pre-drilled grommet holes for easy and organized cable routing. Utilize these holes to manage power and data cables, ensuring a tidy and accessible setup. Proper cable

management helps maintain airflow and prevents accidental disconnections.

5.4. Placement Considerations

This open frame rack is suitable for various environments where space optimization and accessibility are key. It can be used in retail spaces, classrooms, offices, home labs, and other areas requiring organized IT infrastructure.

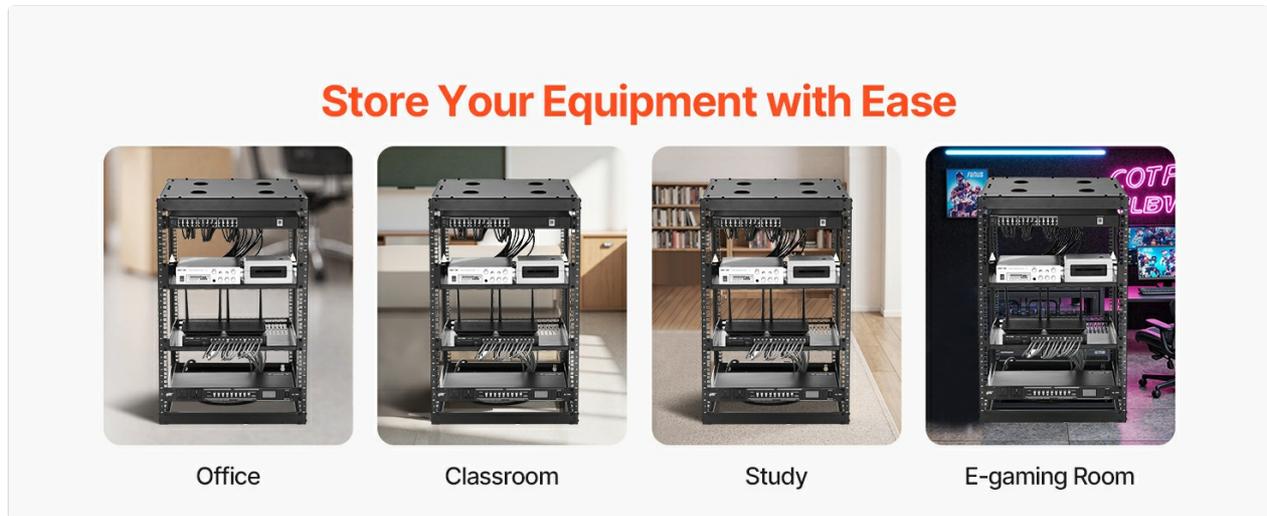


Figure 4: Examples of the rack's application in different environments, promoting tidy cable management.

5.5. Product Video

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Video 1: An official product video demonstrating the features and potential uses of the VEVOR 16U Open Frame Network Rack.

6. MAINTENANCE

- **Cleaning:** Regularly wipe down the rack with a soft, dry cloth to remove dust and debris. Avoid using abrasive cleaners or solvents.
- **Inspection:** Periodically check all screws and fasteners to ensure they remain tight. Re-tighten any loose connections to maintain the rack's structural integrity.
- **Load Check:** Ensure that the total weight of equipment does not exceed the specified load capacities for your mounting configuration.

7. TROUBLESHOOTING

7.1. Difficulty with Self-Tapping Screws

If you encounter difficulty with the self-tapping screws during assembly:

- Ensure the screw is aligned perfectly straight with the hole before applying pressure.
- Apply steady, firm pressure while turning the screw. The screw is designed to cut its own threads into the metal.
- Using a power drill with a suitable bit at a low speed can assist, but avoid over-tightening.
- Do not force the screw if it feels misaligned, as this can strip the threads. Remove, realign, and try again.

7.2. Rack Instability

If the rack feels unstable after assembly:

- Verify that all screws and fasteners are fully tightened.
- Ensure the rack is placed on a completely level surface (for floor-standing).
- Check that equipment weight is distributed evenly.
- For wall-mounted racks, re-verify the security of the wall anchors and mounting points.

8. SPECIFICATIONS



Figure 5: Detailed dimensions and key specifications of the 16U Open Frame Network Rack.

Feature	Specification
Model Number	SPT-504-16A
Height	16U (31.61 inches / 803 mm)
Depth	23 inches (585 mm)
Standard Mounting Width	19 inches (482 mm)
Wall-Mounted Load Capacity	200 lbs (90.7 kg)
Floor-Mounted Load Capacity	500 lbs (226.8 kg)
Material	Carbon Steel (Q235)
Net Weight	30.64 lbs (13.9 kg)
Product Dimensions (L x W x H)	20.08 x 23.03 x 31.61 inches / 510 x 585 x 803 mm
Compatible Devices	Server, Network Equipment, IT Equipment, AV Gear
Assembly Required	Yes

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official VEVOR website. For technical support or assistance with parts, please contact VEVOR customer service through their official channels.

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