

Uniden UNI-374

Uniden Indoor Panel Directional Antenna (Model UNI-374) User Manual

1. INTRODUCTION

1.1 Product Overview

The Uniden Indoor Panel Directional Antenna is designed to enhance cellular signal distribution within an indoor environment. This high-gain antenna works in conjunction with a cellular signal booster to improve signal quality and expand coverage in areas with weak reception. Its directional nature allows for focused signal transmission and reception, optimizing performance when pointed towards a specific 'troubled area' or signal source.

This antenna is intended for indoor use and can be mounted on a wall, ceiling, or pole to direct the signal effectively.

1.2 Key Features

- **Indoor Use:** Specifically designed for internal environments.
- **50 Ohm Impedance:** Standard impedance for compatibility with most cellular booster systems.
- **Frequency Range:** Supports 700 - 2500 MHz, covering common cellular bands.
- **Gain:** 10 dBi for enhanced signal strength.
- **Connectors:** Equipped with N-Female connectors for secure attachment.
- **Directional Antenna:** Focuses signal in a specific direction for targeted coverage improvement.



Image 1: Uniden Indoor Panel Directional Antenna (Model UNI-374)

2. SETUP INSTRUCTIONS

2.1 Package Contents

- Uniden Indoor Panel Directional Antenna (Model UNI-374)
- Mounting hardware (if included with your specific purchase)

2.2 Placement Guidelines

1. **Identify Weak Signal Areas:** Determine the specific indoor locations where cellular signal is weakest or non-existent. This is your 'troubled area'.
2. **Mounting Location:** Choose a mounting location (wall, ceiling, or pole) that allows the antenna to be directed towards the identified troubled area. The antenna should be positioned to provide the most effective coverage.
3. **Orientation:** As a directional antenna, its performance is optimized when pointed accurately. Experiment with slight adjustments to the antenna's angle to achieve the best signal improvement.
4. **Avoid Obstructions:** Ensure the antenna's path to the desired coverage area is free from major obstructions like thick walls, metal objects, or large furniture.

2.3 Connection Steps

1. **Secure Mounting:** Mount the antenna securely using appropriate hardware.
2. **Cable Connection:** Connect a coaxial cable (not included, typically) with N-Male connectors to the N-Female connector on the antenna. Ensure the connection is hand-tightened.
3. **Booster Connection:** Connect the other end of the coaxial cable to the appropriate indoor antenna port on your cellular signal booster. Refer to your signal booster's manual for specific port identification.
4. **Power On:** Once all connections are secure, power on your cellular signal booster.

3. OPERATION

3.1 Functionality

The Uniden Indoor Panel Directional Antenna functions as a service antenna within a cellular signal

boosting system. It receives the amplified cellular signal from your booster and distributes it into your desired indoor area. Conversely, it collects cellular signals from devices within its coverage area and sends them back to the booster for amplification and transmission to the cellular tower.

3.2 Signal Optimization

After initial setup, monitor the cellular signal strength in your target area. If performance is not optimal, try making small adjustments to the antenna's direction. Since it is directional, even minor changes in angle can significantly impact coverage and signal quality. Use a signal strength indicator on your mobile device to gauge improvements.

4. MAINTENANCE

4.1 Cleaning

The antenna requires minimal maintenance. Periodically wipe the exterior with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.

4.2 Inspection

Occasionally inspect the antenna and its cable connections for any signs of damage or loose fittings. Ensure all connections remain secure for optimal performance.

5. TROUBLESHOOTING

5.1 Poor Signal Performance

- **Check Direction:** Ensure the antenna is correctly oriented towards the area requiring improved signal. Adjust its angle slightly.
- **Verify Connections:** Confirm all coaxial cable connections are tight and secure at both the antenna and the signal booster.
- **Booster Status:** Check the status indicators on your cellular signal booster to ensure it is operating correctly. Refer to your booster's manual for troubleshooting specific to the booster unit.
- **Cable Integrity:** Inspect the coaxial cable for any kinks, cuts, or damage that could impede signal flow.

5.2 No Signal Improvement

- **Power Check:** Ensure the signal booster connected to the antenna is powered on.
- **Compatibility:** Verify that the antenna's frequency range (700-2500 MHz) is compatible with your cellular carrier's bands and your signal booster.
- **Isolation:** Ensure there is sufficient separation between your outdoor donor antenna (if applicable) and this indoor service antenna to prevent oscillation or feedback.

6. SPECIFICATIONS

Model Number	UNI-374
Frequency Range	700 - 2500 MHz
Gain	10 dBi

Impedance	50 Ohm
Connector Type	N-Female
Antenna Type	Directional Panel
Usage	Indoor
Product Dimensions	10 x 2.5 x 7.5 inches
Item Weight	1.2 pounds
Manufacturer	Uniden Cellular

7. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Uniden Indoor Panel Directional Antenna (Model UNI-374), please refer to the documentation provided with your original purchase or visit the official Uniden website. You may also contact Uniden customer support directly for assistance.

Uniden Customer Support: Please visit www.uniden.com for contact information and support resources.