

**USER'S GUIDE
FOR THE**

Repeater Amplifier

Model: IDR 3000

(ORA Logo)

LEGAL

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FCC ID:

Frequency: Uplink: 806-821 MHz; Downlink: 851-866 MHz

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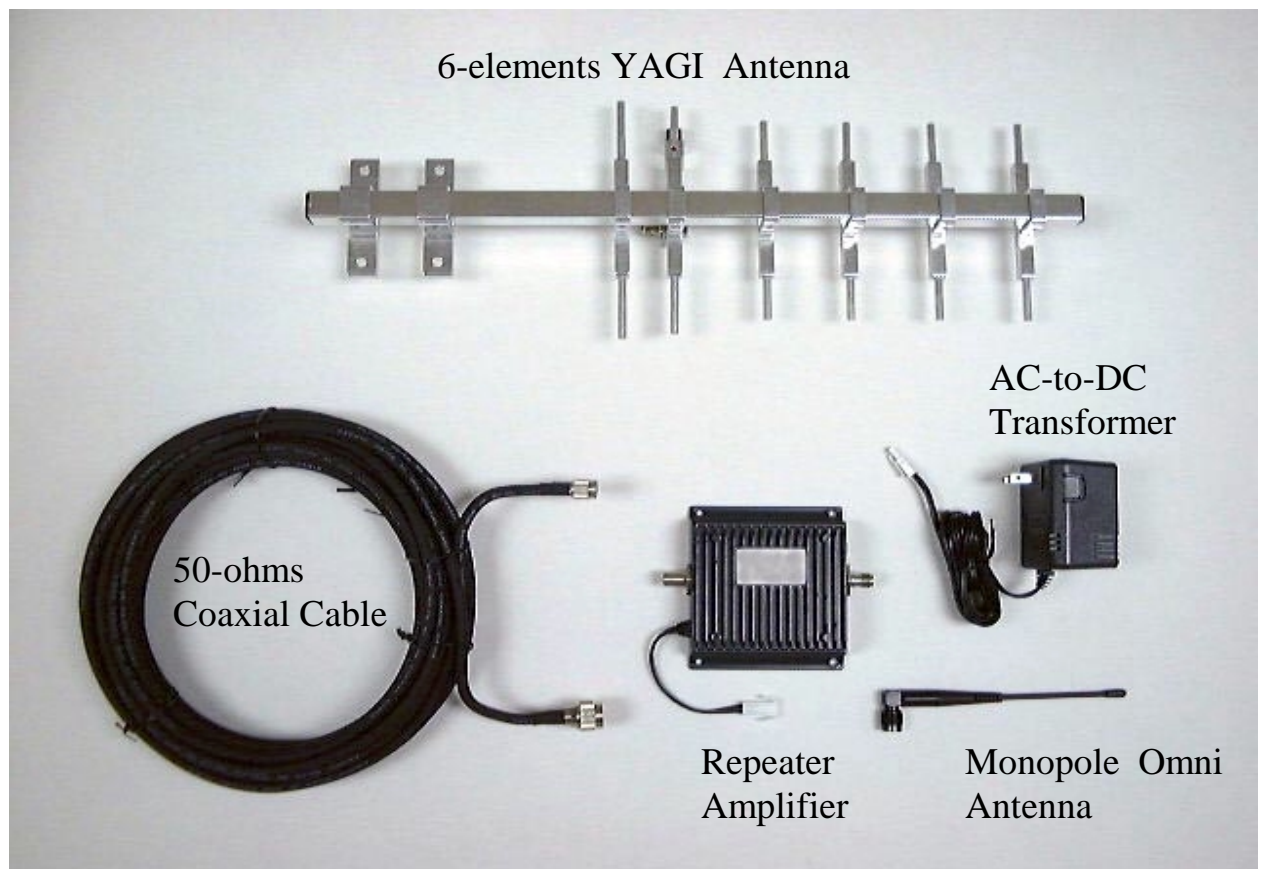
1. PACKAGE CHECKLIST

The Repeater Amplifier contains the following components:

- 1.1 Repeater Amplifier
- 1.2 AC-to-DC Transformer
- 1.3 User's Guide

2. OPTIOAL ACCESSORIES

- 2.1 6-elements YAGI Antenna (As the Outdoor Antenna)
- 2.2 Monopole Omni Antenna (As the Indoor Antenna)
- 2.3 50-ohms Coaxial Cable



CAUTION:

The Repeater Amplifier is designed to work only with Motorola iDEN telephones. Other wireless telephones, including AMPS cellular phones will not work. No attempt to connect other phones to the amplifier should be made.

3. ABOUT THE REPEATER AMPLIFIER

Thank you for purchasing the Repeater Amplifier from ORA Electronics, a leader in cellular and PCS accessories and enhancement products.

The Repeater Amplifier markedly improves the signal quality when using your portable iDEN phone inside the building. This product boosts the power of both the transmitting and receiving signals of an iDEN phone, while providing longer range and better access to the iDEN System.

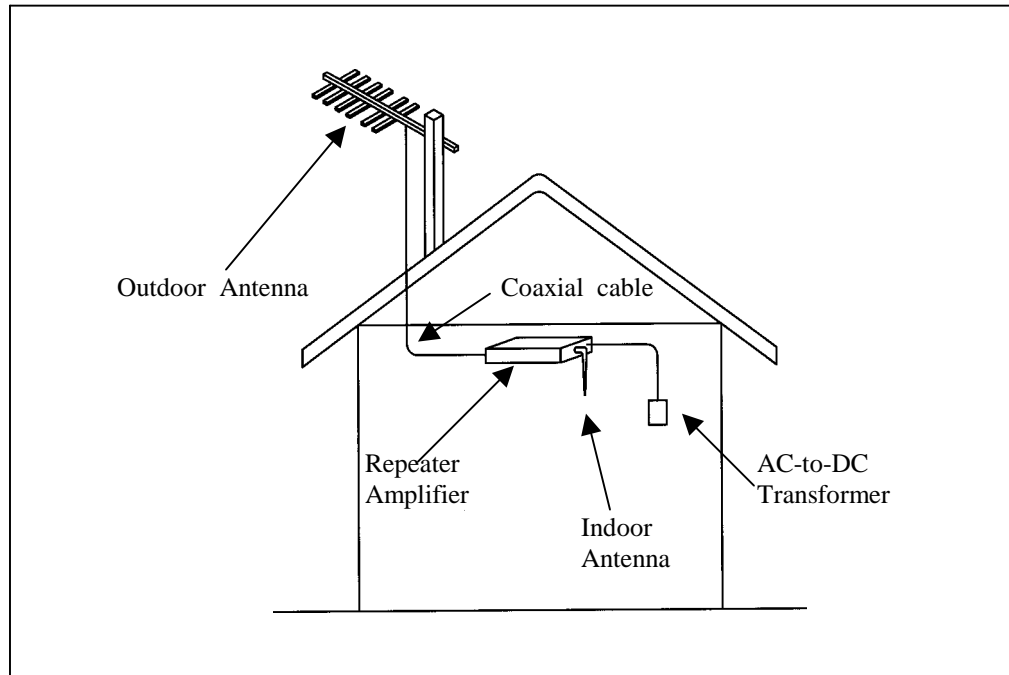
When using an iDEN phone in the building, The signal is received by the internal antenna and sent through the Repeater Amplifier, then transmitted to the nearest cellsite through the Outdoor antenna.

NOTE:

This product generates and uses radio frequency energy. Improper installation and use not in strict accordance with the manufacturer's instructions may cause interference with your reception. There is no guarantee given against interference in any particular installation.

4. INSTALLING THE REPEATER AMPLIFIER

4.1 Installing illustration



4.2 Installing the Outdoor Antenna

4.2.1 Select a good location for the Outdoor Antenna on the roof. You can use your iDEN phone to determine what place has the most signal strength. A suitable location must have the following requirements:

- The signal strength displayed on the iDEN phone must be a scale of 2 or more.
- You can call out successfully three times succession.

4.2.2 Set up the Outdoor Antenna. If a YAGI Antenna is used, point it toward a iDEN Base Station

WARNING:

- The Outdoor Antenna should be placed at a minimum distance of 12 inches away from any people or children.
- In order to avoid interference, the Outdoor Antenna must not be close to any of the following:
 - i. Other radio transmitting antenna.
 - ii. High voltage power lines.
 - iii. High voltage transformer.
 - iv. Metal window or wall.
- If the installed Outdoor Antenna is in danger of being hit by lightning, a lightning rod should be added for protection.

4.3 Installing the Repeater Amplifier

4.3.1 Attach the Indoor Antenna to the Repeater Amplifier connector marked "PHONE".

4.3.2 Mount the Repeater Amplifier on the ceiling or on the wall. To find a suitable place in the indoor environment, there are two requirements for selecting a good location.

- The Repeater Amplifier should be at least 10 feet from the ground.
- The Repeater Amplifier should be placed in the weak signal area. Do not place it far from the weak signal area.

4.3.3 Guild the direction of the Indoor Antenna toward the weak signal area.

WARNING:

- The Indoor Antenna should be placed at a minimum distance of 12 inches away from any people or children.

4.4 Connecting the Repeater Amplifier and the Outdoor Antenna

4.4.1 Connect the Coaxial Cable from the Outdoor Antenna to the Repeater Amplifier connector marked "ANT".

4.4.2 Fasten the Coaxial Cable on the wall securely preventing any damage from the wind.

4.5 Connecting the power

4.5.1 Connect the output connector of AC-to-DC Transformer to the "DC 12V IN" socket of the Repeater Amplifier.

4.5.2 Attach the plug of the AC-to-DC Transformer to the wall socket. The "POWER" indicator on the Repeater Amplifier will light up.

4.6 Testing

Test each corner of interior with your iDEN phone.

5. TROUBLESHOOTING

In the event of communications difficulty, check the following before seeking Technical Support:

- Is the "POWER" indicator lit, showing that the power supply is connected?
→ Check if the power connector is loose.
- Is the receiving scale on the iDEN phone too low to make a call?
→ Check if the connectors between the Indoor Antenna and the Outdoor Antenna are loose.
- Is the receiving scale on the iDEN phone adequate but can not make a call?
→ The Repeater Amplifier might oscillate itself. Please increase the distance between the Outdoor Antenna and the Indoor Antenna. The Distance should be at least 3 feet.

6. SPECIAL APPLICATION

In large areas like a department store, parking lot or hotel, one Repeater Amplifier may not be sufficient and several or many Repeater Amplifier units or a High Gain Repeater Amplifier may be necessary. In such cases, contact your dealer for larger area coverage solution.

CAUTION

Applying power may damage to this device if the Outdoor Antenna and Indoor Antenna are not connected properly.