

KG-1000 Series AD-K1-KG1000G K1 Audio Adapter with Gain Adjust

User Documentation

Version 1.0

Overview

The KG-1000 Series K1 Audio Adapter with Gain Adjust allows K1-style accessories to interface directly with compatible Wouxun mobile radios such as the KG-1000G, KG-1000M, KG-UV920P and KG-UV980P. It connects to the RJ-45 microphone port of the radio and provides an adjustable gain control for optimal audio transmit capability with speaker microphones, headsets, or Bluetooth devices.

Features

- Direct inline connection via RJ45 jack (for use with standard straight-through RJ45 cable)
- Terminal block breakout for:
 - GND (Ground)
 - COR (Carrier Operated Relay / Busy)
 - PTT (Push To Talk)
 - RX_AUDIO
 - TX_AUDIO
 - IN+ (external voltage for COR signal boosting)
- Equipped with an on-board manual gain control
- Adapts an RJ45 style mic port to a Kenwood style (K1) audio port
- Connects a portable handheld microphone to a Wouxun mobile radio
- Includes 3D printed protective case
- Includes a straight-through RJ45 cable

Installation

1.

Hardware Connection

- Turn off your radio.
- Connect the supplied RJ-45 cable to the MIC port on your radio.
- Attach the other end of the cable to the AD-K1-KG1000G adapter.
- Plug your K1-style speaker mic, headset, or Bluetooth adapter into the K1 port on the adapter.

Important: Only use the RJ-45 cable included with this adapter or straight-through RJ45 cables. The pinouts differ from the cable supplied with your Wouxun radio.

2.

Gain Adjustment

- Power on the radio.
- Transmit a short audio test (e.g., “Check one two”).
- Adjust the gain knob with a small screwdriver:
 - Clockwise increases gain.
 - Counter-clockwise decreases gain.
- Set gain for clear, natural audio without distortion.

3.

Bluetooth Operation

The AD-K1-KG1000G supports Bluetooth adapters that use the K1 connector, such as the Wouxuns HEO-025.

- Insert the Bluetooth adapter into the K1 port on the adapter.
- Power on and pair the Bluetooth device following its instructions.
- Attach the earpiece and perform an audio test.

Note: Operating within close proximity (less than 10 feet) may produce faint background audio from the radio, which is normal.

Troubleshooting

Symptom	Possible Cause	Suggested Fix
No transmit audio	Incorrect or non-supplied RJ-45 cable used	Use only the included RJ-45 cable
Audio distorted	Gain set too high	Reduce gain by turning counter-clockwise
Low transmit volume	Gain set too low	Increase gain by turning clockwise
Accessory not functioning	Loose or incompatible K1 plug	Check K1 connection and compatibility

Compatibility

Verified with Wouxun KG-1000G, KG-1000G Plus, KG-1000M, KG-UV920P-A and KG-UV980P radios

Works with portable handheld microphones, earpieces, headsets, and other audio devices equipped with a Kenwood (K1) style connector

Installation Video

Watch our instruction video on the installation and use of the K1 Audio Adapter!



<https://youtu.be/F8VqgdHmr40>

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