



RemoteAmp™
Headphone Amplifier
User Guide

JK Audio

Welcome

Thank You

Thank you for purchasing the JK Audio RemoteAmp™. Please read this guide for instructions on using it.

Getting Assistance

If you have technical or application questions:

In the US & Canada, call us toll free at: **800-552-8346**

All other countries dial: **815-786-2929**
(M-F 8:30-5:00pm Central Time Zone)

Email us at: support@jkaudio.com

Or, check out our FAQ section for answers to common questions.

Limited Warranty

RemoteAmp is covered by a 2 year warranty to be free from defective workmanship and materials. To obtain service, contact JK Audio by phone or email for return authorization. Once authorized, you will carefully pack and ship the faulty product and all accessories to us. You will pay for shipping to us and we will pay for return back to you.

This warranty does not cover damages due to accident, weather, fire, flood, earthquake, misuse, unauthorized repairs or modifications, or damages occurred in shipping, only defective workmanship or materials.

There are no expressed or implied warranties which extend beyond the warranty here made.

Safety Precautions



Use Caution to Prevent Hearing Loss

RemoteAmp contains a headphone amplifier that is more powerful than the typical consumer product.

JK Audio products are designed for the broadcast industry. The broadcast professional must be able to hear headphone signals over the ambient noise level. From the cheering crowd at a football game to trackside at a car race, the program material or cues must be heard at high volumes without distortion.

Road Safety

Never use headphones while driving or cycling, etc. It can be dangerous to turn up the volume even while walking. Doing so may hinder your hearing and can be hazardous on the roadways or at pedestrian crossings.

Note: While RemoteAmp was designed to be very rugged and durable, it is not waterproof and care should be taken to keep the unit dry.

Welcome

Overview	1
Setup	2
Operation	4
FAQs	5
Technical Information	7

Features

XLR Line level Input

XLR Line In Volume Control

1/4" Stereo Headphone Jack

1/8" (3.5mm) Earpiece Jack

Battery Test Indicator

Stainless Steel Belt Clip

>20 Hours on one 9V Battery

Introducing RemoteAmp

The RemoteAmp is a simple battery-powered personal headphone amplifier. Use the RemoteAmp as an IFB earpiece or headphone amplifier, or as an on-stage monitor headphone amplifier. This low-distortion, 1 watt amplifier will cut through the crowd noise without distortion.



Setup

Input

The input XLR accepts line level signals from your mixer, distribution amplifier or phone line hybrid.

The balanced input XLR is wired:

Pin 1	Pin 2	Pin 3
Ground	Signal +	Signal -

This is a transformer balanced input. If you are using an unbalanced source, you must connect your signal lead to pin 2 and then connect your ground to pins 1 and 3. Do not connect a powered input to this device.

1/8" Output

The 1/8" earpiece jack is current limited to prevent excessive signals into your earpiece. This mono jack will power earpieces with an impedance of 150 ohms or greater. If you would like to use light-weight stereo headphones that are typically 8 to 36 ohms, wired with a 1/8" stereo jack, you will need to use an adapter to plug into the 1/4" stereo headphone jack. Or you can solder a jumper wire across the top of the 150 ohm resistor, R2.

1/4" Output

The 1/4" headphone jack is wired for either a stereo or mono plug. If a stereo headphone plug is used, you will hear signal in both the left and right ears.

A 1/4" **mono** plug can also be used without any problem, however, if you plan to always use a 1/4" mono plug, you might consider a simple modification to the RemoteAmp resistor R3.

R3 Modification (Mono)

Resistor R3 provides signal to the "ring" of tip-ring-sleeve. If you clip one of the leads on R3, you will disable stereo operation and increase the power available to the left or mono output. Another common solution is to wire your headphones with a stereo headphone plug but wire both ears to the left channel (the tip of the plug) and leave the ring unconnected. This has the same effect as clipping the resistor on RemoteAmp.

Operation

Gain Adjustment

Behind the back cover of the RemoteAmp you will find a jumper on the circuit board which allows you to adjust the maximum amount of gain the RemoteAmp delivers. In the factory default open position you will receive a maximum of 25 dB gain. If the jumper is set to the optional closed position, a maximum of 40 dB gain will be delivered.

Battery

An alkaline battery is strongly recommended. The battery test indicator shows the strength of the battery power remaining. A bright light indicates plenty of power, a dim light reminds you to be prepared with a fresh battery. Once the LED stops responding to the test switch, you will begin to hear signal breakup and distortion as the battery is drained of its last breath which may mean minutes or hours depending on the circumstances.

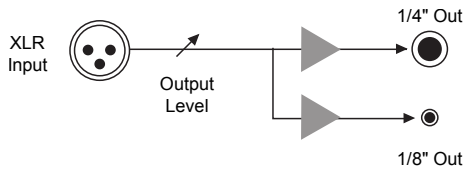
Will the RemoteAmp work with my QuickTap IFB?

Yes. The RemoteAmp will take the balanced output from the QuickTap IFB and send it to a 1/4" headphone jack as well as a 3.5 mm mini jack. You can now use headphones, an earpiece or both.

Can I get more gain out of my RemoteAmp?

Yes. Take the back off of the RemoteAmp. You will find a jumper which will give you enough gain to boost a healthy microphone level signal to headphone level output.

Block Diagram



Specifications

Line Input

Female XLR:	4k ohms / 100 mV RMS (-18 dBu nom, +12 dBu max) Max Gain: 46 dB
-------------	---

Output

1/4" Mono/Stereo:	8 ohms, 1 Watt max
1/8" (3.5mm) Mono:	150 ohms, 100 mW nom.

Misc.

Frequency Response:	30 Hz - 20 kHz \pm 1 dB
Power:	One 9 volt Alkaline Battery
Size:	5.1" x 2.7" x 1.3" (13 x 6.9 x 3.3 cm)
Weight:	10 oz. (275 g)

RemoteAmp™

Headphone Amplifier



User Guide Version 5/25/16

JK Audio, Inc.

1311 E 6th St.

Sandwich, IL 60548

United States

Telephone: 815.786.2929

Toll Free: 1.800.jkaudio

Fax: 815.786.8502

www.jkaudio.com

© 2016 JK Audio, Inc. All rights reserved.

JK Audio