Outerloop 3.5™
Universal Intercom Belt Pack

User Guide

JK Audio

Welcome

Thank You
Thank you for purchasing the JK Audio Outerloop 3.5.
Please read this guide for instructions on using it.

Getting Assistance
If you have any questions:

Call us at:
815-786-2929

Email us at:
support@jkaudio.com

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

Limited Warranty

Outerloop 3.5 is covered by a 1 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

Caution: To prevent possible hearing damage, avoid listening at high volume levels for long periods.

Outerloop 3.5 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.

Handle with Care

While Outerloop 3.5 was designed to be very rugged and durable, it is not waterproof and care should be taken to keep the unit dry.

Contents

Overview

Features

HD Voice (Wide-Band Speech)*	Send and Receive Volume Controls
Connects to Phones and Notebooks with 4-conductor 3.5mm Headset Interface	Push-On, Push-Off Talk Button
	Recessed Sidetone Level Control
Uses Standard 4-Pin and 5-Pin Male or Female Intercom Headset Jacks	>20 Hours on one 9 Volt Alkaline Battery

HD Voice

While standard phone calls have a narrow bandwidth of 300 Hz to 3.4 kHz, HD Voice calls offer 50 Hz to 7 kHz bandwidth. The additional 1.5 octaves on the low end gives voice a more natural sound, while the additional upper octave dramatically improves speech clarity and intelligibility.

Wireless HD Calls

HD Voice is available on many third party headsets and cell phones. To take advantage of this extended bandwidth, both phones on the call must support HD Voice, and both phones must be on the same carrier, in coverage areas that support HD Voice.

Introducing Outerloop 3.5

Outerloop 3.5™ provides a wireless link to your intercom system. This universal belt pack provides XLR connections for your existing 4-pin or 5-pin intercom headset, routing audio through a wired connection to your mobile device. Use your mobile device to call into your intercom phone bridge, station phone coupler, or any phone-based intercom app such as Unity Intercom or Clear-Com® Agent-IC.

Outerloop 3.5 includes a Headset Interface cable **(CN150)** that plugs into the 3.5mm TRRS headset/earbud jack of your mobile device, providing two-way communications. Separate Send and Receive level controls, a push-on, push-off Talk button, as well as a recessed sidetone level control let you adapt to any situation whether you are around the corner or around the world.

Controls & Indicators

1. Send Level

Controls the level of your microphone input.

2. Peak LED

The peak LED indicates clipping on the input channel if the level is set too high. If you see this red LED flashing, you should decrease the Send input level.

3. Talk LED

Lit green when mic is enabled.

4. Receive Level

Sets the level of audio sent to the headphone output jack.

If you find the maximum volume on the Outerloop 3.5 too loud or too quiet, the volume can also be adjusted on the cell phone itself using the volume up/down buttons.
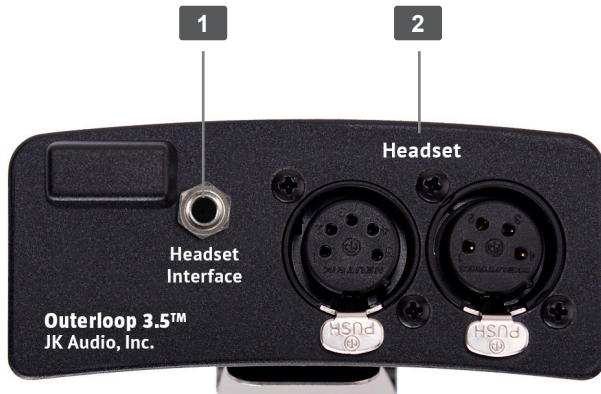
5. Power Indicator

LED indicates when the power is turned on and dims when the battery charge is getting low.

6. Push-to-Talk Button (PTT)

7. Power Button

The **<Power>** button applies power to the belt pack and immediately starts the Bluetooth radio in *Idle mode*.

Getting Connected

1. Headset Interface

Connect the Headset Interface jack to the headset jack on your wireless phone using the supplied 3.5mm TRRS to 3.5mm TRRS headset interface cable **(CN150)**.

2. Headset Jack

Connect your existing headset to the corresponding jack.

OTL3.5-F features 4-pin or 5-pin Female XLR headset jacks.

OTL3.5-M features 4-pin or 5-pin Male XLR headset jacks.

Sidetone Null

A screwdriver slot on the side of the unit adjusts the amount of Sidetone (your voice coming back to you in your headset). This adjustment is made while speaking into the headset with the **<Talk>** button engaged. Simply insert a small flat blade screwdriver and adjust the trim pot to set the desired sidetone level.

Technical Information

Specifications

Headset Microphone

Impedance:	50-2000 ohms

Headset Earpiece

Load Impedence:	50-600 ohms
Power:	> 50 mW into 150 ohms

Headset Pinout	4-pin Male or Female	5-pin Male or Female
Pin 1:	Mic -	Mic -
Pin 2:	Mic +	Mic +
Pin 3:	Headphone -	Headphone -
Pin 4:	Headphone +	Headphone B +
Pin 5:	N/A	Headphone A +

3.5mm Headset Interface Pinout

Tip:	Headphone Left +
Ring 1:	Headphone Right +
Ring 2:	Ground
Sleeve:	Mic

Misc.

Power:	9 VDC battery
Size:	4.7" x 3.75" x 1.65" (12 x 9.5 x 4.2 cm)
Weight:	10 ounces (275 grams)

FAQs

How long will the battery last?
Based on our tests using a standard alkaline battery, the battery should last for >10 hours. Lithium batteries can significantly increase the battery life, but at a higher cost. As an indicator of low battery, the red power LED will grow dim and then extinguish a short while before the battery is completely exhausted and the unit shuts down.

Is Outerloop 3.5 compatible with smart phones that no longer offer a 3.5mm TRRS headset jack?
Yes, provided that you have the appropriate 3.5mm TRRS headphone jack adapter designed for use with your phone's charging port, which is not supplied by JK Audio.

Declaration of Conformity

Manufacturer's Name	JK Audio, Inc.
Manufacturer's Address	1311 E 6th Street
	Sandwich, Illinois 60548 USA

Declares that the product:

Product Name	Outerloop 3.5™ Universal Intercom Belt Pack
Model Numbers	OTL3.5-F, OTL3.5-M

The product herewith complies with the requirements of the following Directives and carries the CE marking accordingly:

RoHS Directive 2015/863

The Technical File containing supporting documentation is maintained at:

JK Audio, Inc (Corporate Headquarters)
Compliance Manager
1311 E 6th Street
Sandwich, Illinois 60548 USA
815-786-2929 phone
815-786-8502 fax

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