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OPERATING INSTRUCTIONS | AMP+DAC S

# OBJECTIVE2+ODAC REV B

## SUPPORT

ONLINE

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CONTACT@JDSELABS.COM  
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BY PHONE

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314-252-0936  
9:30AM-6PM CST,  
MONDAY THROUGH FRIDAY

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COLLINSVILLE, IL 62234  
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# QUICK SETUP

## STEP 01

Connect included 15VAC adapter to power jack, then connect adapter to wall outlet

## STEP 03

Connect headphones to the front Headphone output jack

## STEP 05

Slowly raise the volume knob to an appropriate listening level.  
*See listening tips on page 6*

## STEP 02

Connect USB cable between your computer and the USB jack

## STEP 04

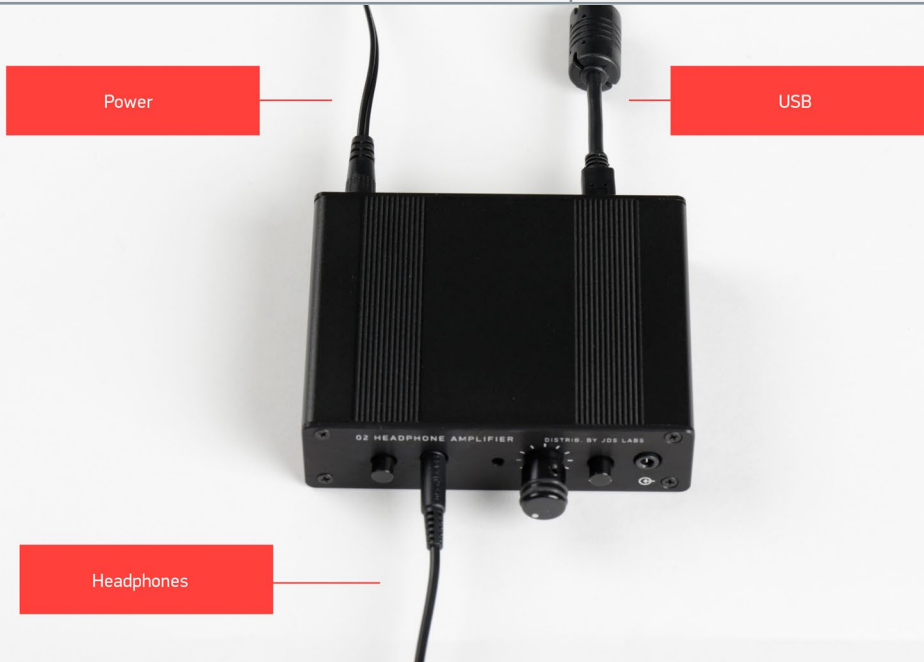
Press the Power button on the front, left side of the amplifier. Keep volume low until music is playing

# CONFIGURATION

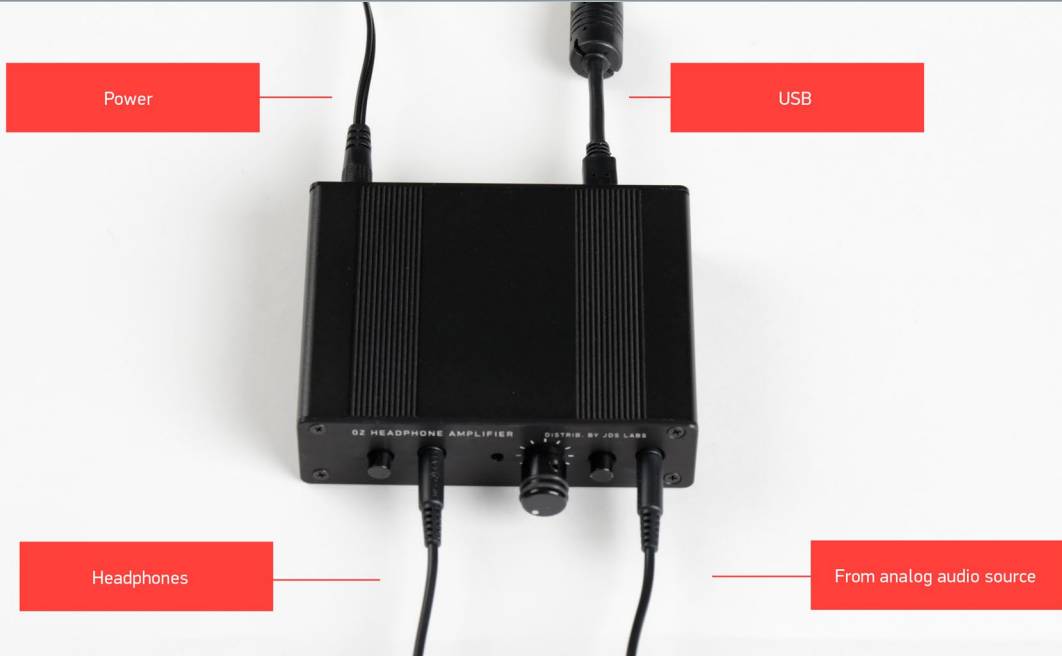
## CONNECTIVITY

Connectivity described below applies to JDS Labs Objective2+ODACs manufactured beyond December 2017. Please refer to your specific order for exact functionality.

### LISTEN TO HEADPHONES VIA USB DAC INPUT

<b>HEADPHONE AMPLIFIER:</b> In use	<b>FRONT</b> Connect headphones Do not connect right, 3.5mm input
<b>DAC:</b> In use	<b>REAR</b> Connect USB input
 <p>The diagram shows a black JDS Labs Objective2+ODAC device. Three red boxes with lines pointing to the device indicate connections: 'Power' points to the top-left power input, 'USB' points to the top-right USB input, and 'Headphones' points to the front 3.5mm headphone jack. The device has 'O2 HEADPHONE AMPLIFIER' and 'DISTRIB. BY JDS LABS' printed on its front panel.</p>	

## LISTEN TO HEADPHONES VIA ANALOG INPUT

<b>HEADPHONE AMPLIFIER:</b> In use	<b>FRONT</b> Connect Headphones Connect source to right, 3.5mm input
<b>DAC:</b> Bypassed	<b>REAR</b> Optionally connect USB cable
 <p>The image shows a black O2 Headphone Amplifier with four cables connected. Red labels with lines pointing to the connections are: 'Power' (top left), 'USB' (top right), 'Headphones' (bottom left), and 'From analog audio source' (bottom right). The device has 'O2 HEADPHONE AMPLIFIER' and 'DISTRIB. BY JOE LABS' printed on its front panel.</p>	

# LISTEN TO EXTERNAL SPEAKERS OR AMPLIFIER VIA USB DAC INPUT

Your O2+ODAC must be equipped with “Dedicated DAC line-output”

<b>HEADPHONE AMPLIFIER:</b> Bypassed	<b>FRONT</b> Move headphones to right 3.5mm jack to bypass amplifier and mute headphones. This connection is important for optimal line-output performance!
<b>DAC:</b> In use	<b>REAR</b> Connect external speakers or amplifier to the rear, dedicated 3.5mm or RCA line-output.  Line-output volume may be adjusted at your receiving amplifier or from your PC. Disconnect rear output when using headphones.



# SETTING GAIN

Press the gain button (right of volume knob) to toggle between low or high gain amplification. Always use the lowest gain necessary.

Switch to high gain only when you're unable to achieve desired listening volume at low gain.

# INCLUDED ITEMS

- Objective2+ODAC
- 15VAC Adapter
- 3 ft. USB Cable

# LISTENING TIPS

For maximum signal fidelity, set the DAC to 24-bit audio and adjust digital volume slightly below 100% at your computer. Only control volume from the amplifier.

Set sampling frequency to match the majority of your music (i.e., use 44100 Hz for 44.1kHz music).

Objective2+ODAC can amplify headphones to dangerously loud audio. Listen safely to conserve your hearing:  
[www.hearingloss.org](http://www.hearingloss.org)

To ensure an optimal noise floor, always position headphone amplifiers as far away as possible from wireless devices.

# SETUP

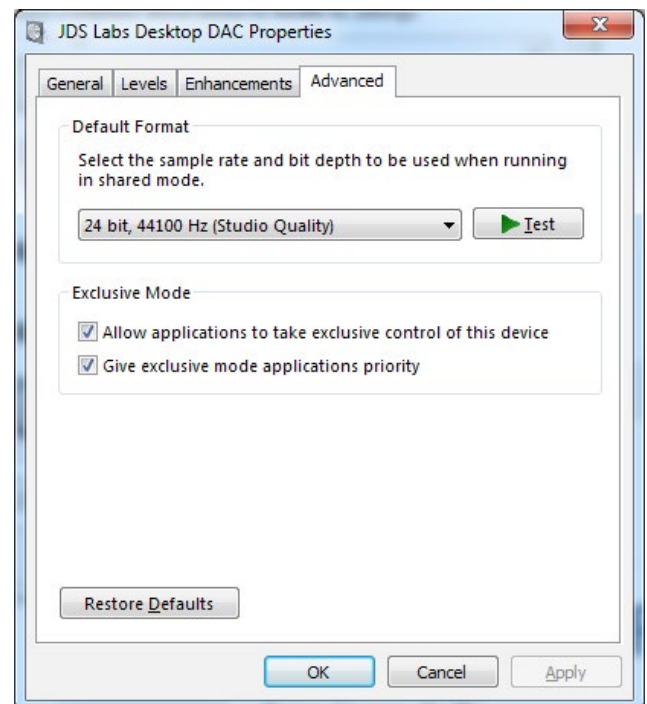
## COMPUTER SETUP

The Element requires no drivers in Windows, Mac OS X, or Linux. Most operating systems immediately recognize and set the DAC as the default playback device. To manually select the playback device in:

**Windows Vista/7/8/10** - Right click volume icon in taskbar, click Playback Devices, set ODAC RevB as default device.

Suggested Properties (Right click ODAC RevB “Speakers” icon):

- Enhancements: Check “Disable all enhancements”
- Advanced: See Listening Tips



**Mac OS X** - Ensure ODAC RevB is selected from Audio Devices

# TROUBLESHOOTING

## Objective2 does not turn on, or power LED is on but output is silent

**Cause:** Wrong or missing power adapter

**Solution:** Connect proper AC adapter

## Distortion at high gain

**Cause:** Objective2 's volume control resides between its input and output stages. Some headphones can overdrive the Objective2's input stage. Refer to NwAvGuy's blog for thorough explanation.

**Solution:** Use low gain or reduce DAC volume at computer.

## No sound in one channel

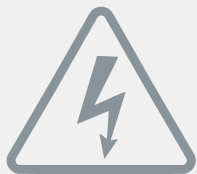
**Cause:** Bad output cable, or incorrect computer settings

**Solution:** Check balance settings; try another output cable. Some Mac OS X systems will pan audio to Left channel upon first connection of ODAC. User must restore balance to center.

## Distorted output or "harsh" treble (constant or intermittent)

**Cause:** Weak USB power, or bad USB cable

**Solution:** Use a powered USB hub or different computer; try another USB cable



## POWER ADAPTERS

**ATTENTION:** Incorrect power adapters can result in capacitor explosion hazards and device damage. Only use the power adapter included with your O2+ODAC:

Type: AC-to-AC Transformer	Output Voltage: 15VAC
Current: Minimum 500mA	Connector: 2.1x55.mm (ID x OD)





Application for Council Directives 2004/108/EC, 2006/95/EC, 2002/95/EC. Conformity declared for EN55022:2011, EN611000-3-2, EN61000-3-3, EN55024-2



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.