

1. Connect an audio source to the **Input** jack using a 3.5mm interconnect cable.
2. Connect headphones to the **Output** jack.
3. Press the **Power** button to power on the amplifier. Keep volume low until music is playing.
4. Slowly raise the volume knob to an appropriate level. See Listening Tips below.

## Listening Tips

- ✓ Always use low gain, unless maximum volume is insufficient with your specific equipment.
- ✓ For maximum sound quality, use a line level source, or turn your audio player's volume up very high (60-80%). Volume should always be controlled from the amplifier.
- ✓ This amplifier can produce dangerously loud music. Be sensible and listen safely: [www.hearingloss.org](http://www.hearingloss.org)

## Troubleshooting

- O2 produces no sound, but power LED is on
  - Cause: Batteries are weak.
  - Solution: Turn the O2 off and recharge.
- O2 turns off unexpectedly and/or produces clicking or popping sounds
  - Cause: Batteries are weak.
  - Solution: Turn the O2 off and recharge.
- O2 does not charge, charges only 1 battery, or clicks while connected to power adapter
  - Cause: Incorrect power adapter.
  - Solution: Use a 14-20VAC power adapter. See notes on reverse side.
- Distortion at high gain
  - Cause: O2's volume control resides between its input and output stages. Some combinations of headphones and line-level sources can overdrive the O2's input stage. Refer to NwAvGuy's blog for thorough explanation.
  - Solution: Use low gain, or switch to a high voltage AC adapter.

Thank you for purchasing the Objective<sub>2</sub>. If you have additional questions or comments, feel free to contact us at: [contact@jdslabs.com](mailto:contact@jdslabs.com)



## Objective<sub>2</sub> Power Adapter Information



**ATTENTION:** Improper AC adapters and/or tips can result in battery or capacitor explosion hazards and device damage. The O2 strictly requires an AC-to-AC adapter, as specified below.

- Required power adapter characteristics for the Objective<sub>2</sub>:
  - Type: AC-to-AC Transformer (AC/AC)
  - Voltage: 14-20V **AC** output
  - Current: Minimum 200mA
  - Connector: 2.1x5.5mm (ID x OD)

**PLEASE NOTE:** AC/DC adapters are very different from AC/AC adapters. Manufacturers commonly abbreviate and refer to all types simply as "AC Adapters", which gives no indication of their actual output. Be aware that most adapters are in fact AC/DC type, which supply DC current. These power adapters are used with laptops, game consoles, computer peripherals, etc., and are **not compatible** with the Objective<sub>2</sub>.

The O2 strictly requires an AC-to-AC transformer, with minimum 14VAC output.

### Charging Instructions

1. Connect an AC power adapter to the **14-20 VAC Jack**, then connect AC adapter to wall. Amplifier can be used simultaneously.
2. Charge time for included NiMH batteries is **8-24 hours**.
3. O2 charges indefinitely at a low current (no charge status!). Remove power adapter as desired.

Recommended Power Adapters - North America	Supplier	Part #	Price
1. Triad WAU12-200, 120VAC to 12VAC, 200mA <i>Notes:</i> Recommended by NwAvGuy. Actual output: 13.5VAC, suitable for most users.	Mouser.com	<a href="#">553-WAU12-200</a>	\$5.55
2. Triad WAU16-400, 120VAC to 16VAC, 400mA <i>Notes:</i> Recommended by NwAvGuy. **Not verified by JDS Labs**	Mouser.com	<a href="#">553-WAU16-400</a>	\$10.76
3. Xicon 120VAC to 18VAC, 500mA <i>Notes:</i> Recommended by NwAvGuy. **Not verified by JDS Labs**	Mouser.com	<a href="#">412-218054</a>	\$10.65
4. Triad WAU20-200, 120VAC to 20VAC, 200mA <i>Notes:</i> Recommended by NwAvGuy. **Not verified by JDS Labs**	Mouser.com	<a href="#">553-WAU20-200</a>	\$6.70

Recommended Power Adapters - United Kingdom	Supplier	Part #	Price
1. Maplin N58AT, AC/AC Multi-Voltage 1000mA Power Supply <i>Notes:</i> Use 15V output. **Not verified by JDS Labs**	Maplin	<a href="#">N58AT</a>	£19.99

**International Objective<sub>2</sub> owners:** We cannot offer brand or model recommendations because power standards differ greatly around the world. Be sure to use an AC-to-AC transformer.