

UHA-6S.MKII

USB DAC and Headphone Amplifier with S/PDIF Input

User Guide

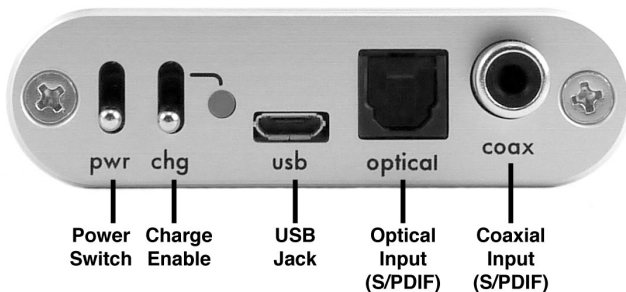
Caution: The UHA-6S.MKII amplifier is capable of generating extremely loud signals with most earphones and headphones. Always make sure the volume is at a reasonable and comfortable listening level before starting playback with headphones or earphones. Extended listening at loud volume may cause permanent hearing damage.

Front Panel



1. **1/8" (3.5mm) Headphone Output** – Connect to any headphones, earphones, or line level input.
2. **1/8" (3.5mm) Analog Input** – Connect to any headphone output or line level output.
3. **Gain Switch** – Gain is 0 dB in low-gain mode (switch in the *down* position), +18 dB in the high-gain mode (switch in the *up* position).
4. **Power LED** – Power LED is green when the UHA-6S.MKII is powered on and the battery has greater than one hour of estimated remaining runtime. Power LED turns orange when estimated remaining runtime is less than one hour.
5. **Volume Control** – Maximum setting is fully clockwise.

Rear Panel



1. **Power Switch** – In the *up* position, the amplifier circuitry is powered on.
2. **Charge Enable Switch** – In the *up* position, USB charging is enabled. In the *down* position, USB charging is disabled. Charging should be disabled while connected to any mobile phone or tablet which does not support high-power USB devices (such as the Apple iPad and iPhone). **Before changing the charge switch setting, power off the amp and disconnect it from USB.**
3. **Charge Status LED** – Charge LED is orange when battery is charging, green when charging is complete. When charging is disabled, the LED is off.

4. **USB Jack** – Connect to a computer using a micro-USB cable for USB audio streaming and battery charging.
5. **Optical/Coaxial Inputs (TOSLINK)** – Connect to a digital audio source using a TOSLINK cable. Maximum supported word length and sample rate is 24-bit/96kHz.

USB Streaming Configuration

The UHA-6S.MKII uses the default USB audio drivers which are included with Windows and Mac OS. In most cases, the UHA-6S.MKII is automatically selected as the default output sound device when connected to a computer. It may be required to manually select the UHA-6S.MKII as the output device:

In Windows 7, click the **Start Button**, click **Control Panel**, click **System and Maintenance**, then click **Device Manager**. Expand the **Sound, video and game controllers** category and select **USB Audio DAC**.

In Windows XP, select **Start > Settings > Control Panel > Sounds and Audio Devices**. Under the **Audio** tab, select **USB Audio DAC** as the default device under the **Sound playback** tab.

In Mac OS 10.0 or later, select **Sound** in **System Preferences**. On the **Output** tab, select **USB Audio DAC**.

Compatible operating systems are Windows 7, Vista, XP, 2000, 98ME, 98SE, Mac OS 10.0 or later.

Battery Charging

The battery is charged via the USB connection. Charging begins automatically when the UHA-6S.MKII is connected to USB and the battery voltage has dropped below a programmed threshold. During charging, the Charge LED remains orange. Charging is complete when the Charge LED turns green. The UHA-6S.MKII is compatible with most standard 5V USB wall chargers. For information on battery replacement, send an email to customer_support@leckertonaudio.com.

WARNING: Use only the recommended replacement battery.

Technical Specifications

- Op-amp supply rails: +/-6 VDC
- Max output power (1% THD):
 - 30 mW into 16 ohms
 - 55 mW into 32 ohms
 - 110 mW into 100 ohms
 - 55 mW into 300 ohms
- THD+N at 1 kHz (optical input, 20 Hz to 80 kHz bandwidth, no weighting):
 - 0.0035%, 1 mW into 16 ohms
 - 0.0060%, 1 mW into 32 ohms
 - 0.0022%, 1 mW into 100 ohms
 - 0.0035%, 1 mW into 300 ohms
- Frequency response: <10 Hz to >22 kHz, +/-0.1dB
- Gain: 0 dB or +18 dB (selectable)
- Battery life: >30 hours typical, analog input
>10 hours typical, S/PDIF input
- USB sample rates supported: 32kHz, 44.1kHz, 48kHz (16-bit)
- S/PDIF sample rates supported: 96kHz max (16-bit or 24-bit)
- Dimensions: 70 x 84 x 20 mm (2.8 x 3.3 x 0.8 inches)
- Weight: 6.0 oz (170 g)

Full Two-Year Warranty

The UHA-6S.MKII comes with a Full 2-Year Warranty which covers the cost of repairs (parts and labor) within the first two years after original purchase date. If Leckerton Audio is unable to repair your amplifier, a replacement will be provided. The warranty does not cover damage caused by misuse, neglect, abuse, or failure to follow the operation instructions. The owner is responsible for the cost of shipping the device to Leckerton Audio for repair service. For information on obtaining warranty or repair service, send an email to repairs@leckertonaudio.com.