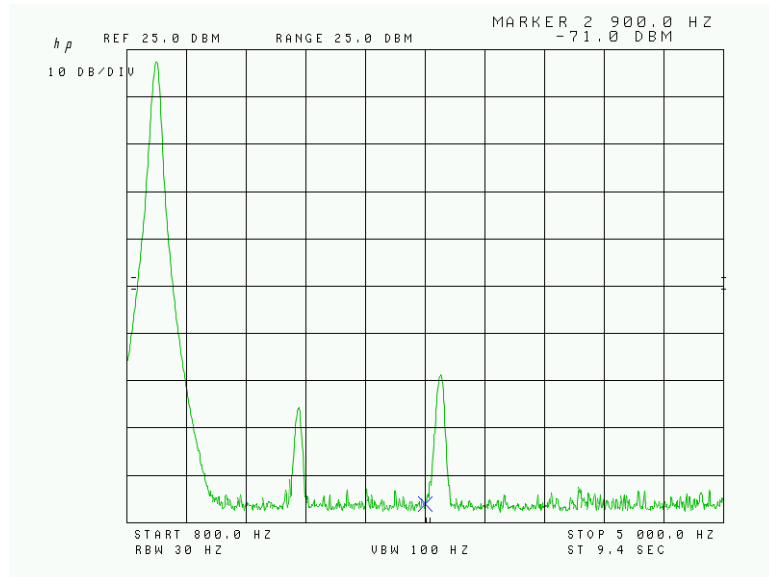
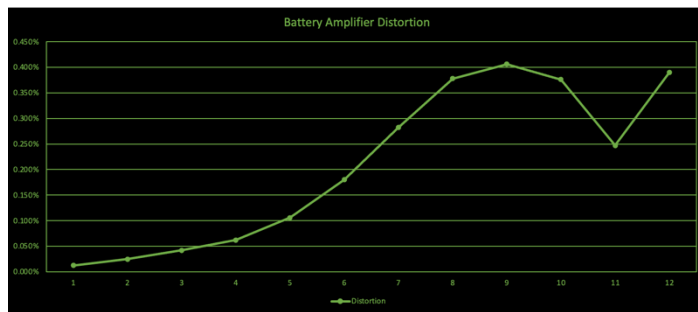


Distortion



2 watts into 8 ohms



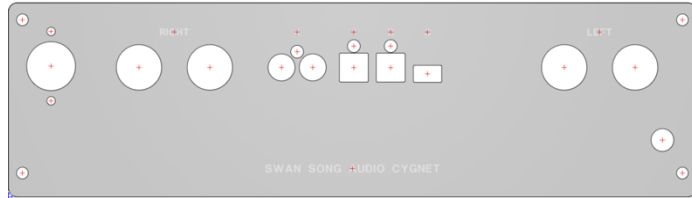
Percent distortion into 8 ohms maximum power 12 watts

Specifications

- Power 12 watts into 8 ohms
- Speaker impedance should be no less than 6 ohms with nominal 8 to 16 ohm loads preferred
- Speaker sensitivity should be at least 93dB
- Distortion less than 0.02% at 1kHz 1 watt into 8 ohms
- Batteries (LION)
 - 1 - 8 volt digital supply
 - 2 - 16 volt 13 amp analog supplies
 - Run time 12 hours
 - Charge time 12 hours
 - Lifespan 3 to 5 years or 500 charges
- Inputs
 - 2 - 24 Bit 96kHz optical
 - 1 - 16 Bit 48kHz USB
 - 1 - RCA Analog 300mv input sensitivity
- Outputs
 - Solid copper binding posts
 - Optional headphone jack
- Chipset
 - Cirrus receiver
 - Analog devices 24 Bit 96kHz upsampler
 - Burr Brown DAC
 - BJT Class A double diamond buffer output stage
- Volume control
 - Transimpedance 128 steps
 - 4 Gain levels
- Copper and Anodized Aluminum chassis with Acrylic front and back protective plates
- Dimensions 12 inches wide by 10 deep by 4.5 inches tall
- Weight Amplifier 16 pounds
- Weight Power Supply 20 pounds



Back Panel

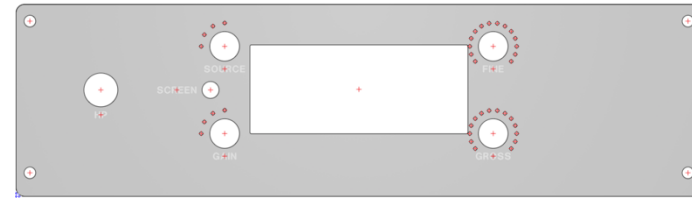


- DC connector on the far left is for the umbilical cord to the Battery Power Supply
- Right and Left copper speaker binding posts
- Inputs 1 and 2 TOSLINK
- Input 3 USB Mini B
- Input 4 RCA analog input with a 300mv sensitivity

Operating Instructions

- Charge the batteries to +/- 16.5 and 8.4 volts by plugging the DC Power Supply into an AC outlet with the front panel switch set to CHARGE. Use the push button Dimmer switch on the DC Power Supply to see the voltage levels
- Rotate power supply switch to the off position. Verify the voltage levels
- Rotate the Amplifier Gain, Fine Volume and Gross Volume switches to the far left position
- Connect the fiber optic (TOSLINK), USB Mini cable, and RCA sources to the back of the amplifier
- Connect to optional grounding cable to from the Amplifier grounding jack to an earth ground source
- Connect the speakers to the corresponding Amplifier binding posts
- Connect the Power Supply to the Amplifier via the umbilical cord
- Power up desired music sources
- If necessary, press the Power Supply Dimmer switch to see the Power Supply screen
 - A blank screen indicates a dead 8.4 volt battery
- Rotate the Power Supply switch to the ON position

Front Panel



- 1/4" Optional Headphone Jack
- Source select corresponds to the back panel
- Screen push button dimmer switch
- 4 Gain stage options
- 16 Fine and 8 Gross Transimpedance Gain / Volume control settings
- Optional 3.5mm Phone connector for headphones

Cautions Warranty

- Do not expose the DAC / amplifier to liquids or to temperature extremes as deemed by Swan Song Audio
- Electromagnetic interference will affect the performance
- A minimum 6 ohm speaker loads is supported
- Clean with "Windex" and a micro cloth
- The warranty period is 5 years from the date of purchase for manufacturing defects and not for wear and tear caused by usage or negligence, as deemed by Swan Song Audio
- Follow all LION Battery precautions
- Violating the cautions voids the warranty
- The unit can only be serviced by directly or with instructions from Swan Song Audio
- Contact Swan Song Audio for service or any warranty questions
- Repairs deemed by Swan Song Audio as outside the warranty will be handled by Swan Song Audio at the owner's expense



- The amplifier has no muting circuit or relays in the signal path. This may result in a small bump of the speakers during power up
- The DC Power supply levels should stay reasonable steady. A large drop in power will indicate either weak batteries or a short in the amplifier. Rotate the switch to the OFF position if this occurs. Charge or have the batteries replaced
- If necessary, press the Amplifier Dimmer switch to see the Amplifier screen
- Rotate the Amplifier Source switch to the desired source
- Start the desired music source
- Rotate the Gross Transimpedance Gain / Volume control to the right until the music level is in the general area of desired volume
- If the Gross Transimpedance Gain / Volume control is insufficient to reach the desired volume level
 - Rotate the Gross Transimpedance Gain / Volume control to the left
 - Increase the gain by rotating the Gain switch to the right
 - Rotate the Gross Transimpedance Gain / Volume control to the right until the music level is in the general area of desired volume
- Rotate the Fine Transimpedance Gain / Volume control to fine tune the desired volume
- When the listening period is complete
 - Stop the music source
 - Rotate the Gross and Fine Transimpedance Gain / Volume controls to the left
 - Rotate the Gain switch to the left
 - Rotate the DC Power Supply switch to the OFF position
 - Dim the DC Power Supply Screen by pressing the DC Power Supply Screen Dimmer switch
- Battery Charging
 - Charge Batteries when the +/- batteries are below 12 volts or are insufficient to last the listening session
 - Batteries have a finite number of charges

