

| SUMOH |

TinyAmp S30 True Digital Stereo Amplifier

User's Guide v. 2.2



Features

- True digital stereo amplifier
- 2 x 30 Watts into 4 Ω speakers
- S/PDIF RCA-type digital audio input
- Power supply output for Logitech Squeezebox® (or similar)
- Music auto detect, turns the amplifier on/off automatically
- Cables included + two sets of gold plated banana speaker connectors

Information

Thank you for purchasing the SUMOH TinyAmp S30.

The TinyAmp S30 amplifier is the perfect companion for the Logitech Squeezebox® (or similar) – enabling true digital audio from your hard drive to your speakers! It is a stereo 30 Watt amplifier with a single digital audio input and a built-in power supply output for a Squeezebox®.

It is easy to use – plug in your Squeezebox® and speakers and turn it on! A music auto detect turns the amplifier on and off, this way the amplifier limits power consumption.

It is designed using high quality components and materials, selected for the best sonic performance and long durability.

It is the only amplifier in the world using true digital technology in it's price range.

It is very small – only about 6"x6"x1.5" (WxDxH) and is made of aluminium. This material has been chosen because the amplifier uses the chassis as heatsink and therefore it gets luke warm when plugged in.

This small and simple amplifier, combined with the Squeezebox® and a set of quality book-shelf speakers, is a complete high quality music system.

Caution

Please see safety precautions on the last page of this guide before use!

Also, please read below information:

Make sure your digital audio source is set to use volume control in the digital signal. If not, the amplifier will play at maximum volume resulting in very high level of sound and maybe damage to the connected speakers!

Please refer to the SlimServer manual for Squeezebox® settings.

There are an switch on the back side for selection of output voltage for Squeezebox® power supply. Be sure to set correctly before connecting: 9V for Squeezebox® Receiver and 5V for Squeezebox® Classic.

At startup the blue front LED is blinking – this means the amplifier is starting – and when the LED is permanently on, the amplifier is ready for music.

There are +12VDC on all four output speaker terminals due to the digital power stage when playing music. This is not a problem or dangerous for the speakers because the voltage is the same on all four terminals.

The amplifier is short circuit protected. This mean if there is a short on speaker cables the amplifier will shut down and possibly need to be re-started.

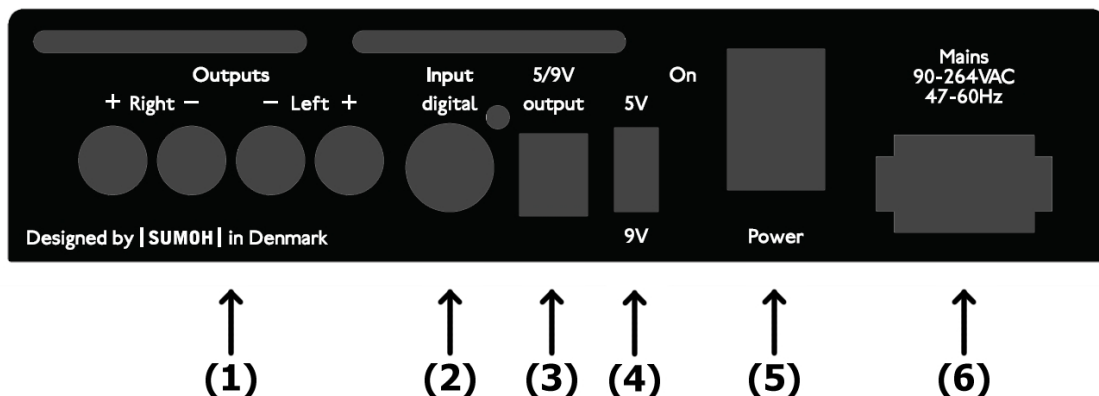
Specifications

Main Chip Devices

Modulator	TI TAS5086
Power Stage	TI TAS5342L
Digital Audio Receiver	TI DIR9001

Audio Performance

Power output, 4 Ω (10% THD+N)	40W
Power output, 4 Ω (0dBFS)	30W
Power output, 6 Ω (10% THD+N)	27W
Power output, 6 Ω (0dBFS)	21W
Power output, 8 Ω (10% THD+N)	21W
Power output, 8 Ω (0dBFS)	17W
Total harmonic distortion (1kHz, -2.5dBFS)	<0.09 %
Dynamic Range, a-weighted	103 dB
Signal-to-noise ratio	103 dB
Channel separation	90 dB
Frequency response, audio range (20Hz - 20kHz)	+/-0.5dB



Connectors

- (1) 4 pcs 4 mm banana speaker terminals, Red positive, black negative
- (2) 1 pc RCA style for digital S/PDIF audio input
- (3) 1 pc 2.5 mm (in dia.), 5.5 mm (out dia.) DC type output for Squeezebox® power supply
- (4) Select switch for 5V or 9V power supply output for Squeezebox®
- (5) AC power switch
- (6) AC power, 8-figure type connector

Physical

AC Power Requirements 85-250Vac Idle/standby	2W
AC Power Requirements 85-250Vac Idle/standby - incl. SB Receiver in mute or off state	6W
AC Power Requirements 85-250Vac – Full Power	90W
Shipping weight	0.70 kg
Dimensions (WxHxD) approx.	6" x 6" x 1.5"

Included in the box

- 1 pc mains power cable, 1.5m
- For Squeezebox® Classic :
 - 1 pc Phono type audio signal cable for digital S/PDIF audio, 0.5m
 - 1 pc DC power cable, 0.45m
- For Squeezebox® Receiver :
 - 1 pc Phono type audio signal cable for digital S/PDIF audio, 0.22m
 - 1 pc DC power cable, 0.18m
 - 1 pc DC power cable, 0.45m
- 4 pcs gold plated banana connectors for speakers
- This User's Guide

Troubleshooting

Problem

Amplifier does not power on

or

No light in LED

or

No sound

Check

Main power cord is no connected properly

On/Off switch is off

Source not connected properly

No signal from source

Source not working properly

Please contact SUMOH if other problems occur

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Safety Precautions

Please note the following safety precautions

- To avoid risk of electric shock, do not use or expose this amplifier to wet or moist environments
- Do not place objects containing fluids above or on top of the amplifier
- It is recommended to disconnect the amplifier during electrical storms
- There are no user serviceable parts inside the amplifier, all internal maintenance or servicing should be carried out by SUMOH, or qualified service personnel authorized by SUMOH
- Do not insert objects into the ventilation slots on the amplifier
- Avoid exposure to extreme heat, extreme cold, or direct sunlight
- Do not drop the amplifier, or subject it to strong shocks
- Unplug all cables if the amplifier is not to be used for a long time
- Do not place the amplifier near sources of strong magnetism
- Disconnect the power when cleaning outside
- Clean only with a damp cloth
- Keep the amplifier away from dust and dirt
- If the amplifier is moved from a very cold environment to a warm one, leave the unit unpowered for about an hour for the moisture inside to evaporate
- Do not place the amplifier on top of heat sources, including other audio equipment
- Please ensure adequate ventilation around the amplifier

Contact

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