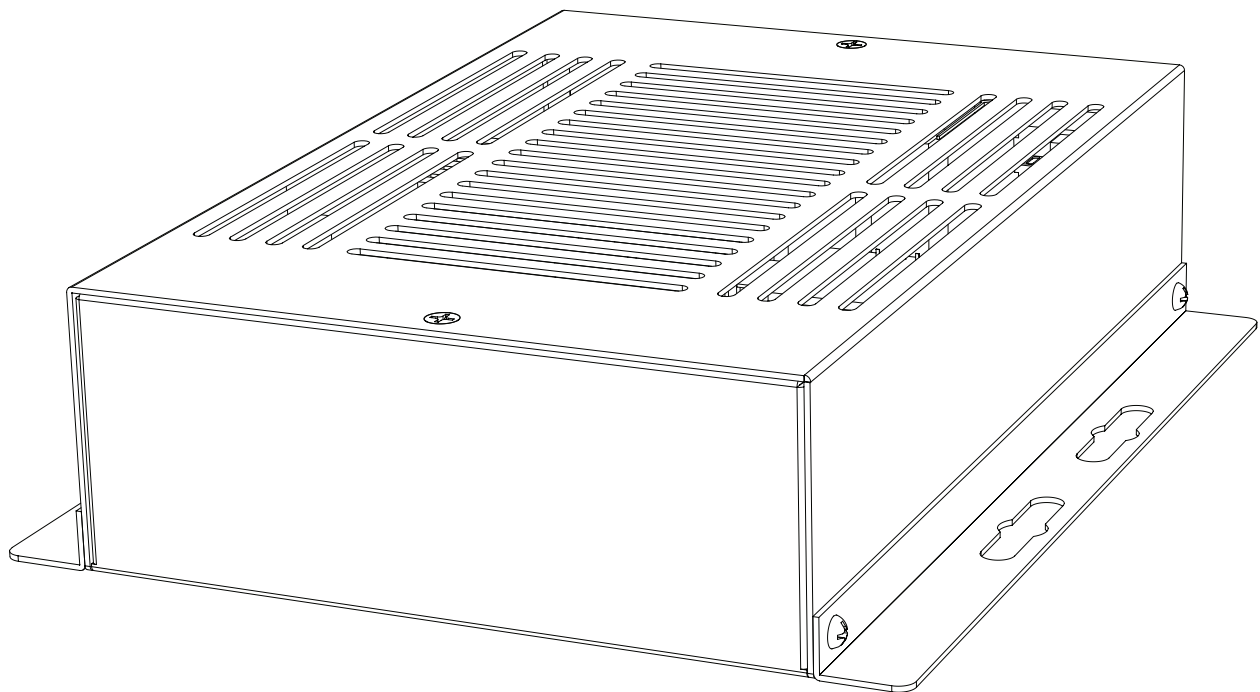


ELAC Integrator Series



OPERATING INSTRUCTIONS

IS-AMP340

ELAC The life of sound.

Important Safety Instructions



CAUTION: To reduce the risk of electric shock, do not remove cover (or back).
No user-serviceable parts inside. Refer servicing to qualified service personnel.

• Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

APPLICABLE FOR USA, CANADA OR WHERE APPROVED FOR USAGE

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, INSERT FULLY.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

PORTABLE CART WARNING



13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
16. **CAUTION:** Servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
17. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Table of Contents

Important Safety Instructions	2
Table of Contents	3
Introduction	4
IS-AMP340 Features	5
Rear Panel Features	6
AC Mains	6
Status LED	6
Line 2 In	6
IR Out	6
Analog In	6
Sub Out	6
Speaker Outputs	6
Digital In	7
IR In	7
Ethernet	7
12V Trigger	7
IR Remote Features	8
On	8
Volume/Transport	8
Preset Select	8
Input Select	8
Off	8
Installation	9
Amplifier Location	9
Typical System	9
Connections	10
Speaker Connections	10
IS-AMP340 GUI Control Panel	12
Accessing the GUI Control Panel	12
GUI Panel Controls Defined	13
Resetting the DHCP	13
Bluetooth	14
Bluetooth Pairing ELAC USB Amplifier	14
IS-AMP340 App	15
Master Volume	15
Offset Volume	15
Setup	16
Input Names	16
Bass/Treble	17
Screen Brightness	17
Speaker Balance	18
Remote Learning	19
About	20
Warranty	21

Introduction

Congratulations and thank you for purchasing the ELAC IS-AMP340 Amplifier!

Since the time we started in 1926, ELAC has always striven to achieve the very best!

IS-AMP340 is a 3 channel amplifier with a line output for connecting a subwoofer.

The amplifier allows you to connect a center speaker in addition to left and right speakers. A subwoofer line output is included for connecting a powered subwoofer to reproduce deep and rich bass.

The center speaker connection is optional, but provides clearer dialogue reproduction.

App-rich Control Flexibility

ELAC's free iOS and Android app allows users to fully control and set up their system. The app includes innovative features not found on any other products in this class—anywhere.

Auto Blend and Auto EQ

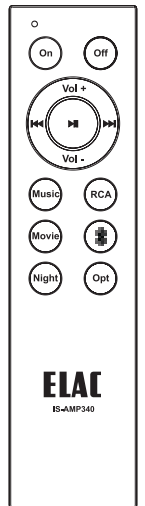
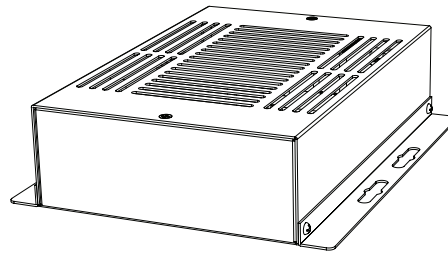
Through the use of the free iOS and Android app the user first selects a high-pass filter, then using the smartphones microphone, measures the near-field response of both the main speakers and subwoofer. Our proprietary algorithm then adjusts the low pass filter to obtain optimal blending between the subwoofer and main speakers. Auto EQ minimizes the effects of the rooms acoustics allowing you to hear the sound the designer intended.

Please read and follow the instructions in this guide to assist in proper installation, connection and use of your ELAC IS-AMP340 Amplifier.

IS-AMP340 Features

WHAT'S INCLUDED

- 1 - IS-AMP340 3.1 Amplifier
- 1 - IR Remote Control
- 1 - 3.5mm IR Receiver Cable
- 2 - AAA Batteries
- 1 - IS-AMP340 Operating Instructions



IS-AMP340 FEATURES

Basic Description

3.1 Amplifier: 3 channels (right, left, center) + subwoofer line output

Amplifier

- 3 x 35Watts with center channel on @ 4Ω with 1% THD
- 2 x 50W stereo without center channel @ 4Ω with 1% THD

Audio Inputs

- 2 x Stereo Analog Line Level Audio Inputs
- 1 x Digital Optical Audio Inputs (up to 192kHz 24-bit)*

*Due to differences in optical transmitters and optical cable quality/length, 192kHz is not guaranteed

Speaker Connections

- 1 x Euro Block terminal connector (Phoenix connector)

Subwoofer Output

- 1 x Analog Line Level with AutoEQ

Control

- Android or iOS Setup/Control App
- IR Remote Control
- 12V trigger
- Ethernet control for home automatization

Audio Decoders

- Dolby Digital® Decoding

DSP

- Auto Blend (subwoofer to main speaker configuration)
- AutoEQ (automatic room correction)
- Voice EQ

Rear Panel Features

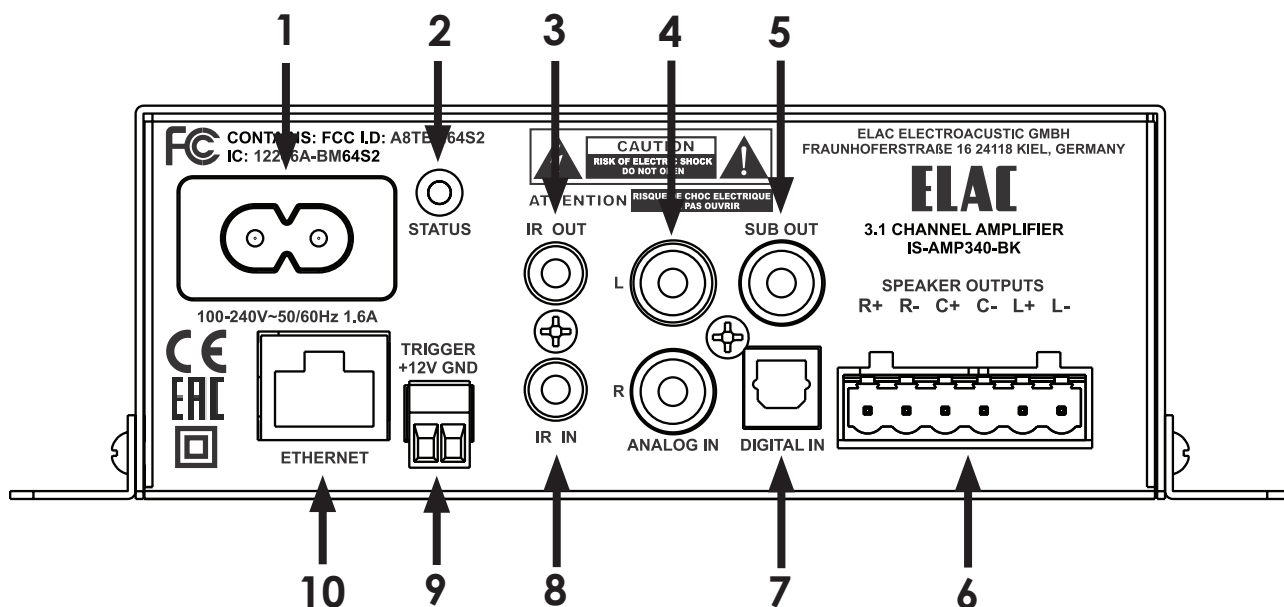


Figure 1 IS-AMP340 Rear Panel Features

1. **AC MAINS** - After all other connections have been made and confirmed, using the included power cord, connect the AC Mains on the IS-AMP340 to an unswitched AC outlet.
2. **STATUS LED** - Shows the status of the IS-AMP340 unit:
Green - shows the unit is ON
Red - shows the unit is OFF
Blinking - shows communication, BT pairing, system start or firmware update
3. **IR OUT** - Used for connecting IR emitter (optional).
4. **ANALOG IN** - Using a quality stereo RCA to RCA cable, connect the L&R output on a stereo audio source to ANALOG IN L&R inputs on the IS-AMP340. This input can be selected pressing RCA on IR remote or from the app. This input can also be selected from the IS-AMP340 unit WEB page via Ethernet connection.
5. **SUB OUT** - Using a quality RCA to RCA cable, connect the SUB OUT on the IS-AMP340 to the SUB IN on a powered subwoofer or sub amp. Once the initial sub settings have been made, the Volume Control will adjust both Speaker and Sub Out levels as a master control.
6. **SPEAKER OUT** - Using 16AWG (max) speaker wire, connect the Right, Left and Center speakers outputs on the IS-AMP340 to the appropriate speaker terminals on right, left and center speakers. Before connecting the speaker wires, twist the ends of the speaker wire so there are no strays that can cause shorts. See section: **Connections/Speaker Connections** for additional information.

Rear Panel Features (cont.)

7. **Digital IN** - Using a quality digital optical audio cable, connect the Optical OUT on a source component to the Optical IN on the IS-AMP340. This input can be selected pressing Opt on IR remote or from the app. This input can also be selected from the IS-AMP340 unit WEB page via Ethernet connection.
8. **IR IN** - Plug in the provided 3.5mm IR receiver cable.
9. **ETHERNET** - Using an Ethernet cable, connect the Ethernet port on the IS-AMP340 to local network (LAN). The Ethernet port is used for setting up the Amplifier through it's web GUI and for 3rd party control.
10. **12V TRIGGER** - Use this connection to ON/OFF control the IS-AMP340 unit (>5 ... 24V DC).

IR Remote Features

1. **On** - Press to turn unit ON. The IS-AMP340 can also be turned on from the WEB page via Ethernet connection.
2. **VOLUME/TRANSPORT** -
Volume - The Volume controls will adjust the volume to the speakers, subwoofer, (if used).
Press Vol+ to increase volume.
Press Vol - to decrease volume.

Transport - The Transport buttons will control play/pause, previous track and next track on a compatible Android or iOS device that is bluetooth paired to the IS-AMP340.
Press ► once to Play a selected track.
Press ► again to Pause a selected track.
Press ◀◀ to select the previous track.
Press ▶▶ to select the next track.
3. **PRESETS SELECT** - Press these buttons to select one of the preset audio modes
Music - Used for music listening.
Movie - Used for movie.
Night - Used for night mode listening.
4. **INPUT SELECT** - Press these buttons to select audio source devices connected to the IS-AMP340.
RCA - Press to select the device connected to ANALOG IN.
⌘ (**BLUETOOTH**) - Press this button for various Bluetooth functions. See section: **Bluetooth** for additional information.
Opt - Press to select the device connected to DIGITAL IN.
5. **Off** - Press to turn unit OFF. The IS-AMP340 can also be turned off from the WEB page via Ethernet connection.

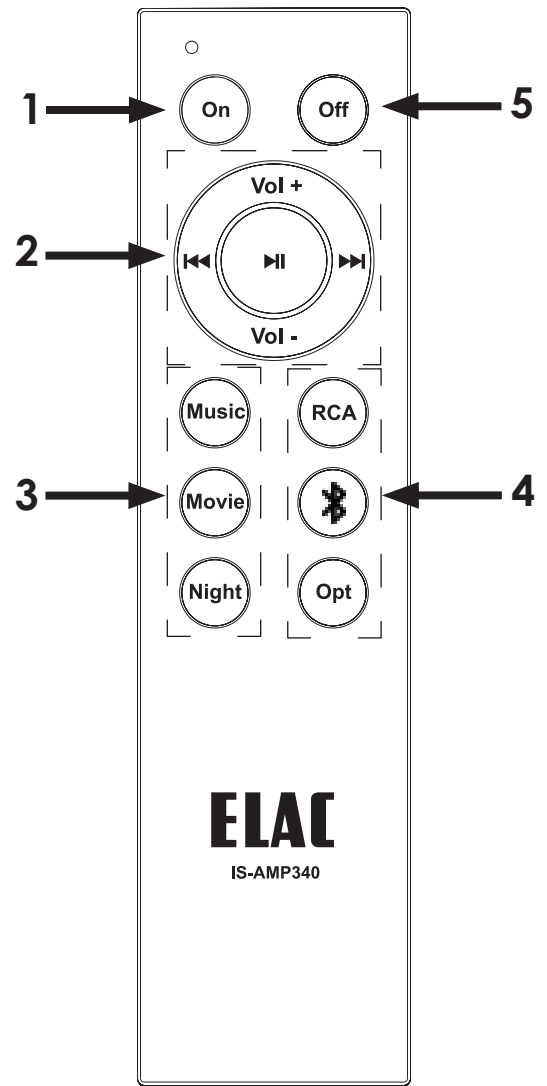


Figure 2
IS-AMP340 IR Remote Features

Installation

Amplifier Location

The IS-AMP340 amplifier is designed to be mounted in an in-wall electrical box, on the wall or mounted the rear of the TV.

Provide enough space around the amplifier for the free flow of air, and do not block any of the vents on the bottom, sides or top, particularly if the amp is going to be located in a cabinet or closet. Leave enough space around the amp for the wires that are connected to the amp and other devices and do not allow the wires to block the vents or the free flow of air around the amp.

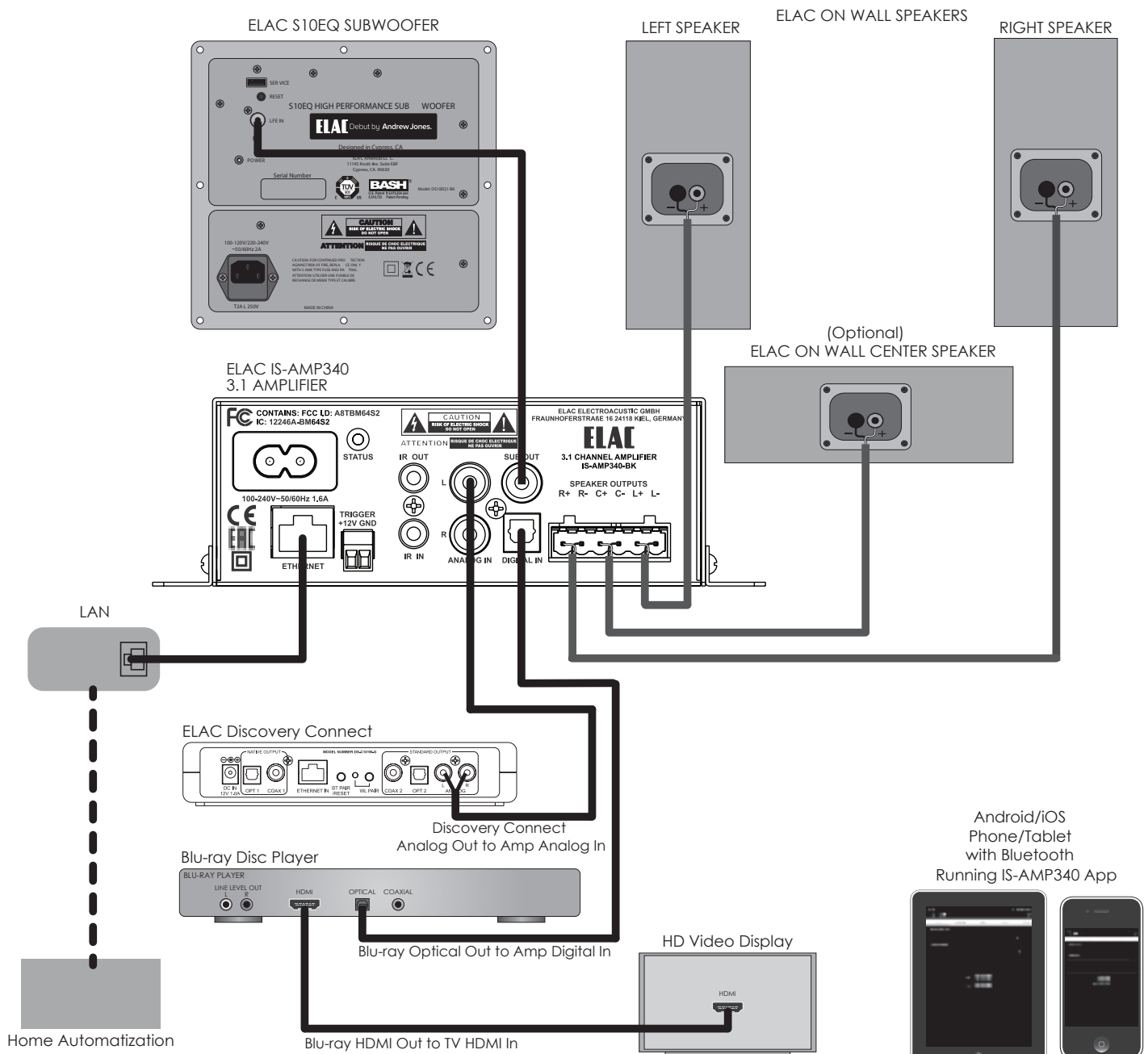


Figure 3 Typical IS-AMP340 System

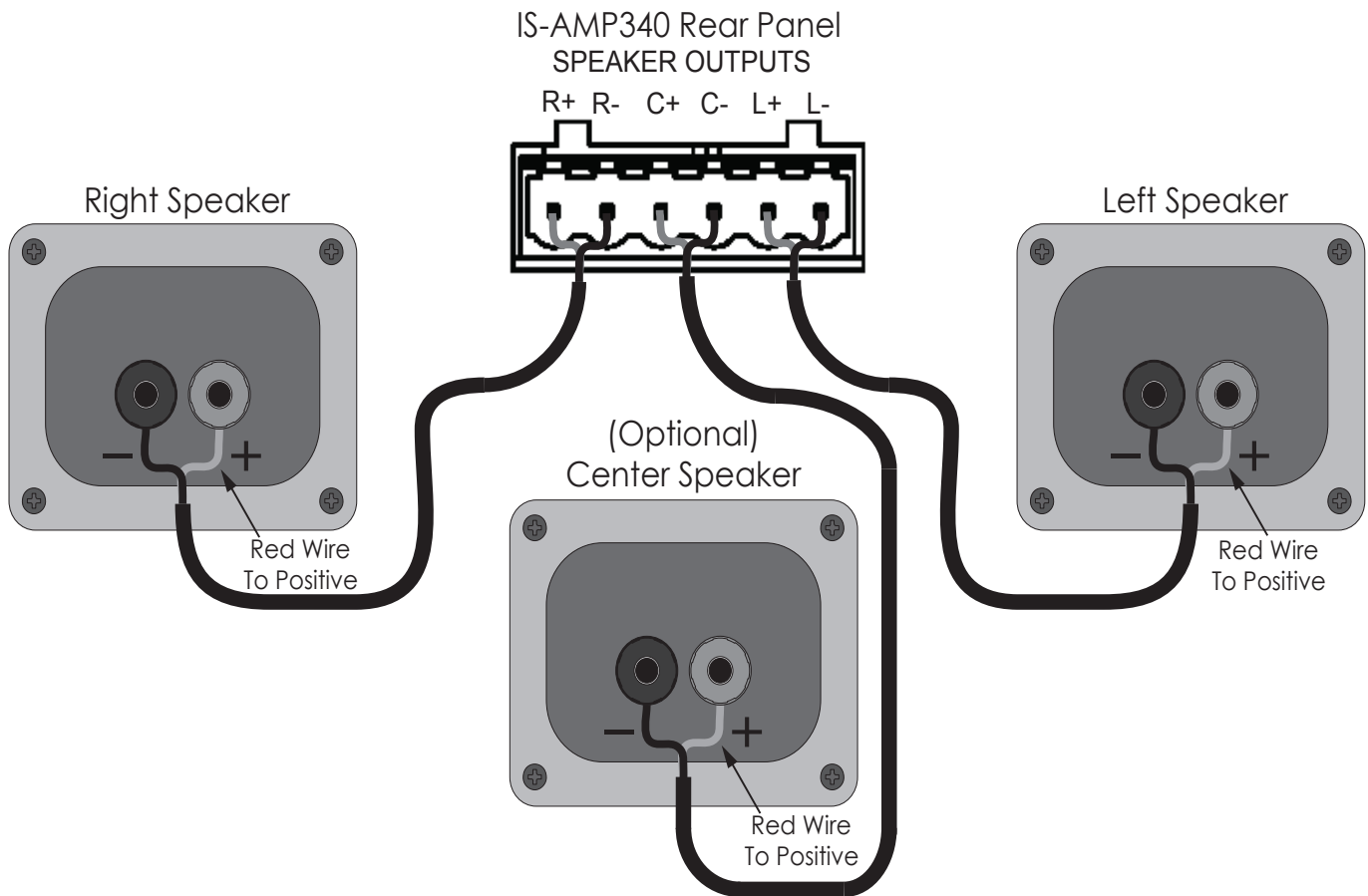


Figure 4 IS-AMP340 Speaker Connections

Speaker Connections

1. Use 16AWG (max) 2-conductor stranded speaker wire for speaker connections.
2. Strip approximately 1/4 to 1/2 of an inch off the ends and twist the strands together so there are no loose ends that can cause shorts.
3. On the amplifier rear panel, insert one end of each striped speaker wires into the provided plug and tighten the screws. Ensure that all speaker wires are firmly attached to the plug.
4. Confirm polarity. (Red wire to +).
5. Repeat for left, right and center speakers, + and -.
6. Confirm connection and polarity for each channel: left, right and center.
7. Connect the speaker wires to the appropriate + and - terminals on the speakers.
8. Confirm connection, polarity and position.

Connections (cont..)

NOTE: If the Speaker Out senses a short, the amplifier will enter protect mode and 'Fault' will appear in the IS-AMP340 web page and app. In "Fault" mode, the audio amp will be shut down, but the logic and control will remain on.

To reset the amp, power cycle the amp (unplug the amplifier from the wall jack for minimum 30 seconds and then plug it back in). If the amp does not return to normal operation, please contact ELAC at 714.252.8843 or at service@elac.us.

For information regarding Bluetooth audio streaming, see section: **Bluetooth**.

IS-AMP340 GUI Control Panel

Accessing the GUI Control Panel

1. Open a Web browser.
2. In the Web browser address bar type in the following: <http://isa31> and hit enter. (Figure 5)



Figure 5 IS-AMP340 Accessing the GUI Control Panel

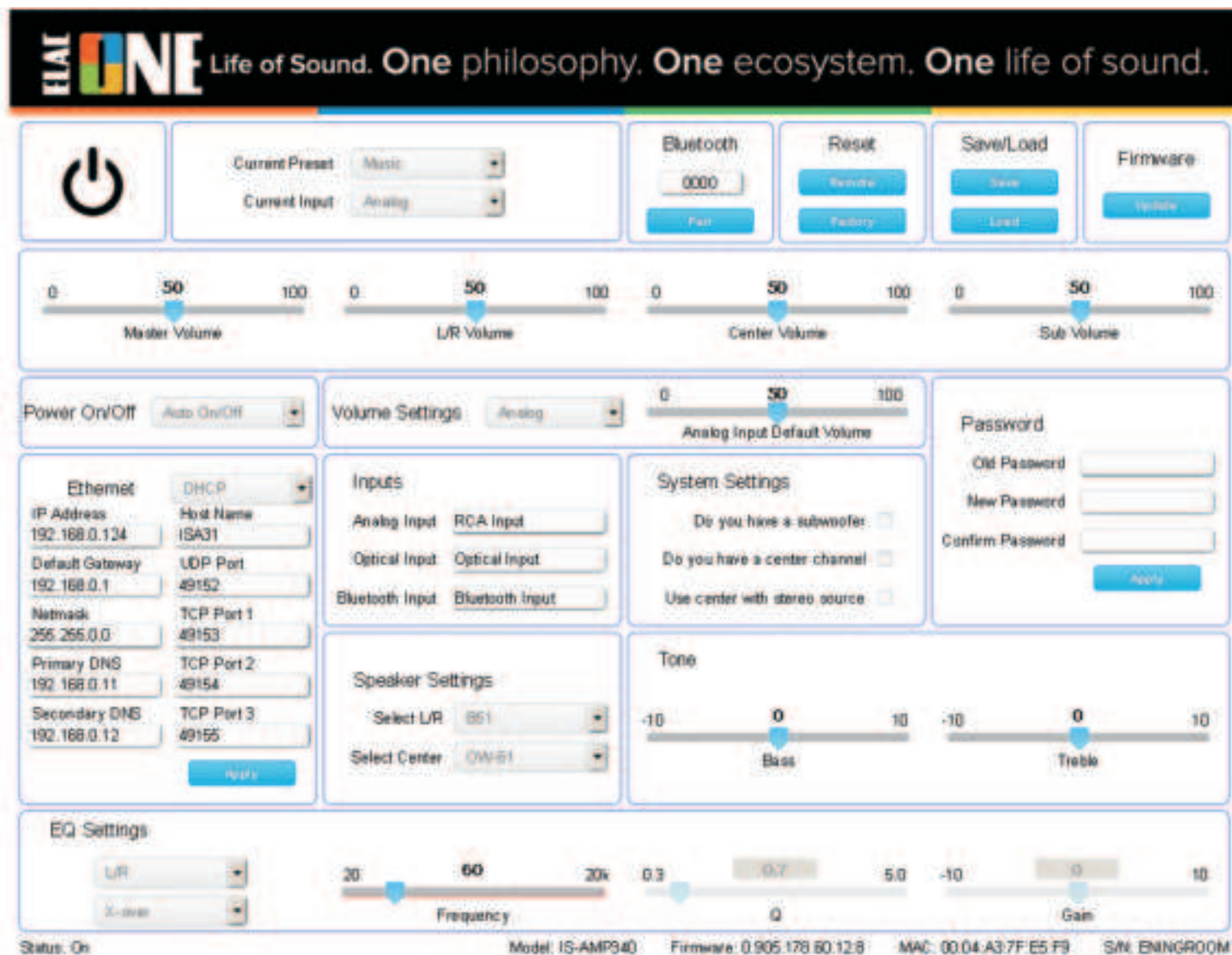


Figure 6 IS-AMP340 GUI Control Panel

IS-AMP340 GUI Control Panel (cont)

GUI Controls Defined

The IS-AMP340 amplifier GUI control panel is shown in **Figure 6**.

Most of the GUI controls are simple and self explanatory, but some of them are described below in detail.

Power On/Off - Use this control to select the power on/off mode:

- **Auto On/Off** - The amplifier is detecting the audio signal and it is turning on/off automatically. If there is no audio for aprox. 20 min. the amplifier is turns off.
- **12V Trigger** - Requires 12V (>5 ... 24V DC) control connected to the amplifier. In this mode the On/Off commands from IR remote and Ethernet will not work.
- **Remote Control** - In this mode the amplifier can be controlled via both IR remote and Ethernet.

Volume Settings - Use this control to set the default master volume for selected input.

Input Default Volume - Will set the desired default volume for each input.

System Settings - Use these controls to set the amplifier according to your audio speaker system.

Do you have a subwoofer [Check Box] - Select this option if you have a subwoofer. If the audio signal is Dolby Digital® the sub frequencies are sent to the subwoofer.

Do you have a center channel [Check Box] - Select this option if you have a center speaker.

Use center with stereo source [Check Box] - This option will mix the left and right audio signals and send it to the center speaker in addition to regular stereo audio signal in left and right speakers, respectively.

Resetting the DHCP - The reset of the DHCP can be done via app.

BLUETOOTH

Minimum Bluetooth Requirements:
Bluetooth Version: v4.0 or better.

BLUETOOTH PAIRING (BLUETOOTH AUDIO STREAMING)

1. Confirm that Bluetooth is ON on the device to be used.
2. On the IS-AMP340 IR Remote, press the **⌘** button to switch the amp to the Bluetooth input. Next, press and hold the **⌘** button to start the pairing process.
3. Under Available Devices, select **ELAC IS-AMP340** for bluetooth pairing.

The IS-AMP340 IR Remote can be used to control transport functions, (play/pause, previous/next track) on appropriately featured phones and tablets for additional control flexibility. See Section: **IR Remote Features** for additional information.

IMPORTANT NOTE: Bluetooth can be simultaneously connected to two devices, but only one can play at a given time. If one stops playing, the other can then play. If one device is connected another can be paired without disconnecting the connected device. If two devices are connected a new device cannot be paired without disconnecting one of the connected devices.

IS-AMP340 App

IS-AMP340 APP

The IS-AMP340 App is a two-way setup app that connects to the amp via Bluetooth Low Energy. App setup features include: source select, master volume, offset (individual source) volume, source naming, bass/treble, sub volume, balance, Auto Blend, IR Remote learning

and screen brightness. The app will open to the Master Volume screen when launched.

MASTER VOLUME

The Master Volume slider sets the amplifier output volume. It affects the output to the speakers and sub (if used) and headphones if connected.

When adjusting master volume, the volume level will appear in a bubble on the app screen and on the front panel display. If the volume is adjusted with the IR remote or front panel volume control, the app master volume will adjust automatically in real time.

OFFSET VOLUME

The Offset Volume slider sets the output of each connected source relative to the other sources. This allows adjusting the source levels so when switching from one source to another, one won't be very loud and another very soft. When adjusting Offset level be sure to use program material that is equal in intensity, volume and dynamics so the settings are made to the relative output of the sources and not the program material itself. Setting the Offset on one source to soft solo harp music and another to pounding electronic dance music will not result in proper settings.

The app provides two digital meters to indicate the relative input and output level of each source. Green is good. Amber is OK, but not too much, and Red is bad. The ideal settings have the Output levels set so that no source is in the red and maybe just flickering the amber cell. Also try to set the individual outputs so that no source can get so loud that it can damage the amp, speakers or your ears, even if the amp gets turned all the way up! The Offset levels can only be adjusted using the app...so keep the app away from the kids and friends!

1. Before setting the Offsets, turn the Master Volume down a bit just in case a particular source comes on louder than expected.
2. With all connected sources playing consistent program material, tap through all inputs at the top of the app screen to get a feel for which input are louder and softer.

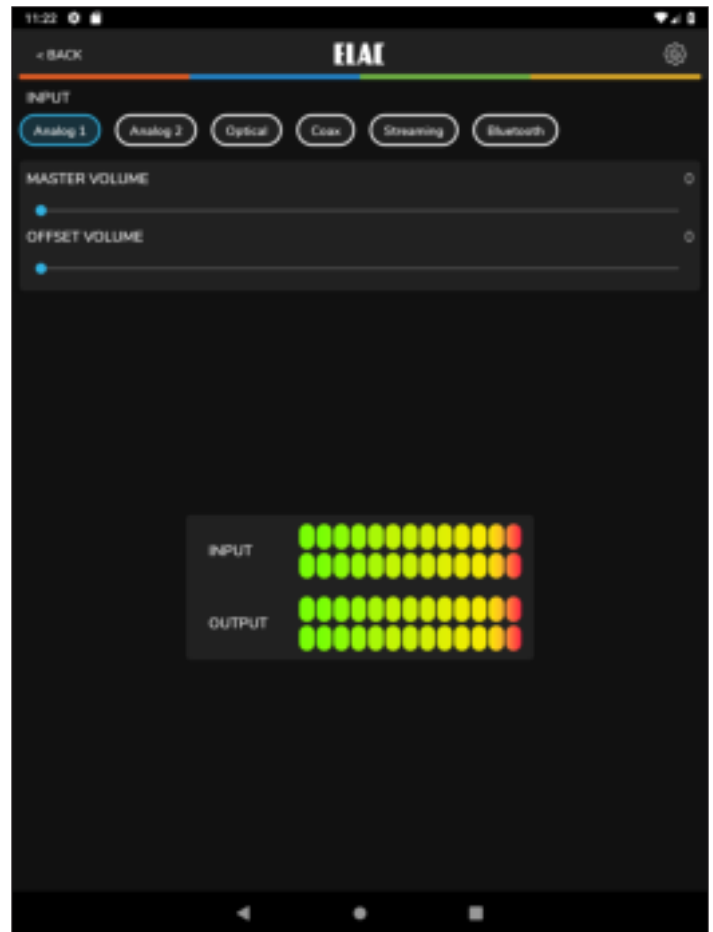


Figure 7 IS-AMP340 App - Master Volume

3. Adjust the Offset for each source until the output from the speakers is consistent across all sources. The settings will be automatically stored in the amp.

SETUP

The settings for Input Names, Bass/Treble, Sub Level, Screen Brightness and Speaker Balance can all be accessed by tapping the Settings Gear in the top right corner of the app when in the Source select/Volume screen. (**Figure 6**)

Tap the gear. The Settings Menu will appear.

INPUT NAMES

Each of the inputs can be renamed to indicate the actual connected source...i.e. Optical can be changed to TV or Blu-ray. The maximum number of characters is 9.

1. In the settings menu tap Input Names.
2. Tap to the right of a **NAME** in the list. Repeatedly tap the backspace key to delete the default name. OR...Drag/ select a name in the list.
3. The device keyboard will appear. Type the new name...Cable, Blu-ray, Internet, Server, etc.
4. Tap next to change other names and repeat **Steps 2-4**.
5. When finished tap the slider icon at the top right to return to the source/volume screen or select another setting in the menu bar. To return to the Setup menu tap the back button on the phone or tablet.



Figure 8 IS-AMP340 App - Setup Menu



Figure 10 IS-AMP340 App - Name Inputs

IS-AMP340 App

BASS/TREBLE

The Bass/Treble section adjusts the tone controls for the IS-AMP340 master output. Each control can be adjusted +/-12dB.

1. In the Settings Menu tap Bass/Treble.
2. With a fingertip, slide the blue dot on the Bass slider to adjust bass to desired level. A bubble will appear to indicate level setting.
3. With a fingertip, slide the blue dot on the Treble slider to adjust treble to desired level. A bubble will appear to indicate level setting.
4. Settings will be automatically stored in the amp.
5. To return to the Setup Menu tap the back button on the phone or tablet.
6. When finished tap the slider icon at the top right to return to the source/volume screen.



Figure 9 IS-AMP340 App - Bass/Treble

SCREEN BRIGHTNESS

Screen Brightness adjusts the intensity of the IS-AMP340 front panel display. RANGE: 1-100.

The Screen Auto ON/OFF sets the front panel display to stay on or turn off after making changes to power, source, volume, etc.

1. In the settings menu tap Brightness.
2. With a fingertip, slide the blue dot on the Brightness slider to adjust the front panel display intensity to desired level. A bubble will appear to indicate level setting.
3. To change the Screen Auto ON/OFF Setting, slide the switch to the left (white) to have the display remain on while the amp is powered ON. Slide the switch to the right (blue) to have the display turn off after making changes to power, source, volume, etc while the amp is powered ON.
4. Settings will be automatically stored in the amp.
5. To return to the Setup Menu tap the back button on the phone or tablet.
6. When finished tap the slider icon at the top right to return to the source/volume screen.



Figure 11 IS-AMP340 App - Screen Brightness

SPEAKER BALANCE

Speaker Balance adjusts the relative volume of the left and right speakers. Use this control to adjust the stereo sound from the speakers if they are unevenly placed relative to the listening position. Each control can be adjusted +/-100 with 0 being center.

1. In the settings menu tap Balance.
2. With a fingertip, slide the blue dot on the Speaker Balance slider to adjust balance to the desired position. A bubble will appear to indicate the setting.
3. Setting will be automatically stored in the amp.
4. To return to the Setup Menu tap the back button on the phone or tablet.
5. When finished tap the slider icon at the top right to return to the source/volume screen.



Figure 12 IS-AMP340 App - Balance

IS-AMP340 App

REMOTE LEARNING

The Remote Learning section allows the IS-AMP340 to learn IR commands from other remote controls. This can simplify user control by teaching the amp commands from another remote such as a TV remote so that remote can be used to control the TV, IS-AMP340 and other devices if capable.

When learning commands, be sure to use commands that will make sense when controlling the amp. Use volume up/down commands for volume. Use source select commands for source select functions. Use transport functions for play/pause/previous/next.

NOTE: The Play/Pause button is also a mute button except when used in Bluetooth mode where it is a pause/play command for a synchronized Bluetooth device. So...a mute command will mute/unmute the speakers for all sources except Bluetooth where it will pause/play the synchronized device.

1. In the source/Master Volume screen, tap the Setup Gear in the upper right corner. From the Setup Menu, tap Remote Learning. The Remote Learning - Select screen will appear.
2. In the 'Select' screen tap a button to be replaced with a new IR command. **Follow the cues on the amp front panel display.** 'Scanning' will appear on the display.
3. Press the button on the remote to be learned until the amp display indicates: 'Captured'. The Display will indicate 'OK' if the code was learned.
4. When 'Again' appears on the front panel display, press the SAME BUTTON on the remote to be learned until the amp again indicates: 'Captured'.
5. The amp will return to it's previous operating mode.
6. Press the button on the learned remote to test the command to be sure the command has been learned and is affecting the proper function.



Figure 13 IS-AMP340 App - Remote Learning - Select

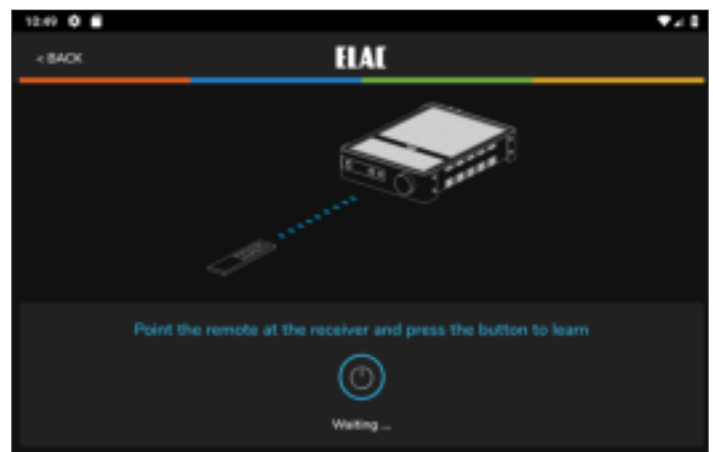


Figure 14 IS-AMP340 App - Remote Learning - Learn

7. Repeat Steps 2-6 for all commands to be learned.
8. For additional Setup Modes, tap an item from the Menu Bar at the top of the screen.
9. When finished tap the slider icon at the top right to return to the source/volume screen.

ABOUT

The About screen indicates important information about the device to which the app is synchronized (IS-AMP340). This can be useful for service purposes to determine whether the device has most current firmware to provide best performance and latest features. To confirm firmware version:

1. With the IS-AMP340 app synchronized to the amp, select About from the Setup Menu Bar.

Periodically visit <http://elac.com/firmware> to check for firmware updates to assure your amp has all current feature and performance updates.

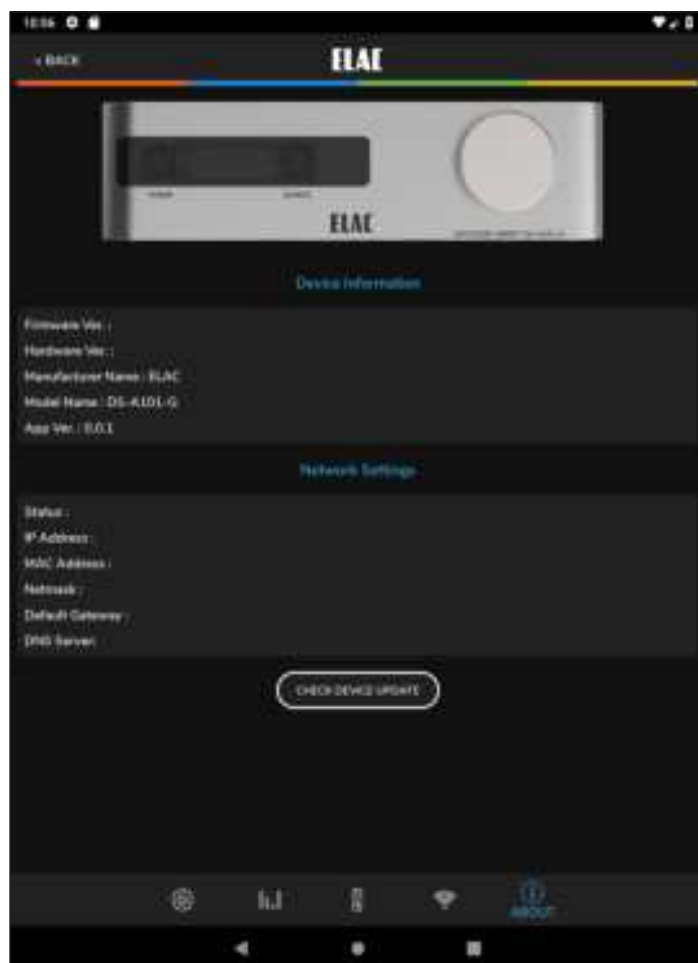


Figure 15 IS-AMP340 App - About

ELAC Americas Inc.
North America Limited Liability Warranty

Amplifiers

ELAC Americas Inc. warrants to the original purchaser that this product be free from defects and or workmanship for a period of 1 (One) year from the original date of purchase. During this time period, repair or replacement of parts will be free of charge to the original owner (see limitations below). Shipping to and return from the repair center will be the responsibility of the original purchaser.

Limitations

- Warranty begins on the date of original purchase from an authorized ELAC Americas Inc. dealer.
- Product is warranted only if used in home applications. Commercial use of this product is not warranted
- Product has been modified or altered in any way will not be warranted.
- Product that has been abused or subjected to faulty equipment will not be warranted.
- Products with defaced or removed serial numbers will not be warranted.

If Service is Required

In the event that service is required, please contact ELAC America at 714.252.8843 or at service@elac.us to arrange for service or replacement. You will be responsible to provide proof of purchase (Copy or original sales receipt). Shipping to and from our repair center will be the responsibility of the original purchaser.

Warranty Outside of North America

This warranty applies to products purchased in the United States and Canada. For Warranty information claims outside of North America, please contact the local dealer/distributor in the country of purchase.

TRADEMARK INFORMATION

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by ELAC Americas is under license.

Dolby, Dolby Audio and the double-D symbol are Trademarks of Dolby Laboratories.

App Store is a service mark of Apple Inc., registered in the U.S. and other countries.

Google Play and the Google Play logo are trademarks of Google Inc.

All other Trademarks and logos are property of their respective companies.

ELAC The life of sound.

ELAC Americas Inc. • 11145 Knott Ave. Suites E & F • Cypress, CA 90603 • USA
714.252.8843 • elac.com

ELAC Electroacoustic GmbH • Fraunhoferstraße 16 • 24118 Kiel • Germany
+49 (431) 64 77 4-0 • elac.com

