URC®

HDA-130

Owner's Manual

Total Control™

Table of Contents

Technical Support

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Hours: 9:00am - 5:00pm EST M-F

Rev 1.0

Introduction

URC's HDA-130 amplifier delivers incredible performance, reliability, and powerful amplification to any audio zone.

The HDA-130 amplifier is designed with **ICEpower technology** to provide a robust distributed audio system.

Using URC's HDA amplifiers in conjunction with **URC architectural in-ceiling speakers** delivers an incredible high-fidelity audio experience throughout the home or business.

HDA products are **NOT** compatible with URC's legacy DMS amplifiers.

Features and Benefits

- **Single-Zone Amplifier:** Each amplifier channel is rated @ 30 Watts RMS/Channel into 8Ω, 70 Watts Peak Power Output per channel.

- **HDA Audio Streams:** This device supports up to two (2) audio sources that are converted into a digital "high resolution" audio stream over the network.

- **Source Sharing:** Any zone controlled via an HDA amplifier or I/O device has access to the system's HDA Audio Streams

- **Flexible Zone Linking:** Link one or more zones on the fly via Total Control's **Rooms Menu** or have your programmer configure a "Party Mode" button. **Room Linking** is an easy way to distribute audio across the system.

- **Preamplifier Output for Subwoofer:** Connection available for simple setup and addition of a subwoofer.

- **Integrated Audio Sensor:** Each available input on the HDA-130 has built-in audio sensing capabilities. These sensors can be used to trigger programmed events or activities.

- **Zone Input Ducking:** The HDA-130 has the ability to "fade in" an audio input over the currently selected audio input.

  The perfect solution to briefly lower the volume on the current source to make an audio announcement or doorbell chime.

- **Power Configuration Options:** The HDA-130 can be powered via PoE+, PoE++, or the supplied 48V DC adapter.

Parts List
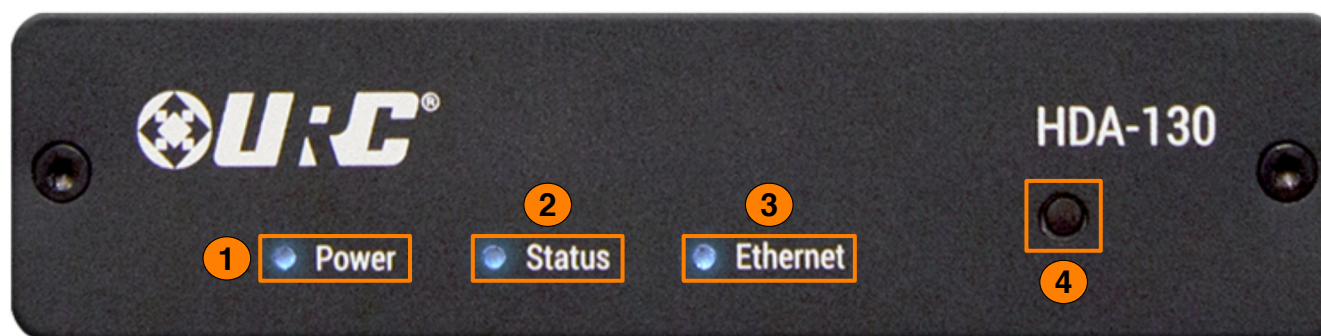
The HDA-130 amplifier includes:

- 1x HDA-130 System Controller
- 1x AC Power Adapter
- 1x Power Cord
- 1x Adjustment Tool
- 1x Ethernet Cable
- 12x IR Emitters 3.5mm (standard)

Front Panel Description

There are three (**3**) LEDs and a button on the front panel of the HDA-130:

1. **Power LED:** Indicates one (**1**) of the following:

   - **Solid Blue:** Power has been applied to the device and it has successfully initialized.

   - **Off:** Power has been removed from the device.

2. **Status Light:** Indicates one (**1**) of the following:

   - **Solid Blue:** The device has been programmed with Total Control software and is ready for operation.

   - **Blinking Blue:** The device is receiving a download from the Total Control programming software.

   - **Blinking Green:** The device is receiving a firmware upgrade, this light continues to blink until the update is fully applied.

   - **Off:** The device has not been programmed with Total Control software.

3. **Ethernet LED:** Indicates one (**1**) of the following:

   - **Solid Blue:** The device has received an IP address from the local network.

   - **Blinking Blue:** The device is connected to the local network; however, it has not received an IP address.

   - **Off:** The device is not connected to the local network.

4. **Reset Button:** There are two (**2**) ways to press this button:

   - **Single Press:** Tap the Reset button to power cycle the device.

   - **Factory Reset:** Press-n-hold the Reset button for 10 seconds or more.

     This option cannot be reversed, once the device has been factory defaulted it **requires re-programming**.

Rear Panel Description

Below are the ports located at the rear of the HDA-130:

1. **DC IN:** Connect the **supplied 48V DC adapter** to this port to power the HDA-130 amplifier.

2. **LAN:** Full Duplex Gigabit LAN **ONLY**, for audio streaming and zone control (Wi-Fi **NOT** supported, device must be hard-lined to the network).

   This port is also used for **PoE+/++**.

3. **Analog/Digital Inputs:** Both of the following inputs can be used simultaneously to provide two (**2**) HDA "high-definition" audio streams:

   - **Analog -** With supplied 3.5 mm adapter.

   - **PCM Toslink** (Optical)

4. **Sub Out:** Standard RCA connector, signal is left + right full range.

5. **Speaker Output:** Terminal block/phoenix style connector that can be configured one of the following ways:

   - **Powered by External 48V DC Adapter (supplied):** Output power of the amplifier is **2 x 30W RMS per channel @ 8Ω**.

   - **Powered by PoE++ Adapter (not included):** Output power of the amplifier is **2 x 30W RMS per channel @ 8Ω**.

   - **Powered by PoE+ Adapter (not included):** Output power of the amplifier is **2 x 15W RMS per channel @ 8Ω**.

Slotted-styled screws are used to secure the speaker wire to the terminal block/phoenix style connector.

Installing the HDA-130

The HDA-130 amplifier is **supplied** with two **(2)** "L" shaped brackets for **mounting** on the wall or secure vertical surface.
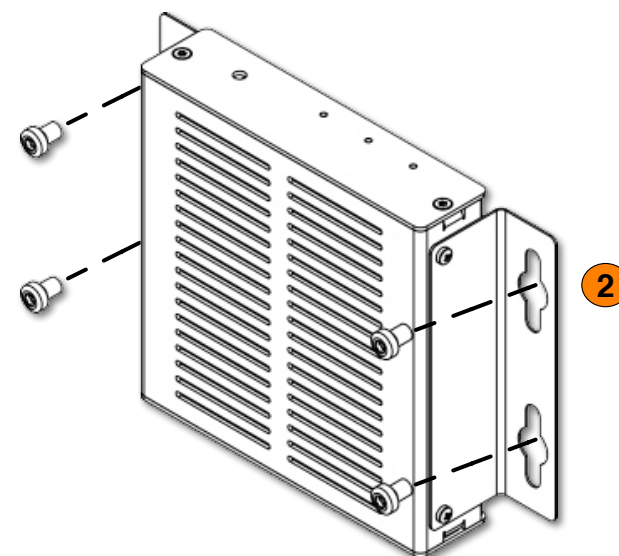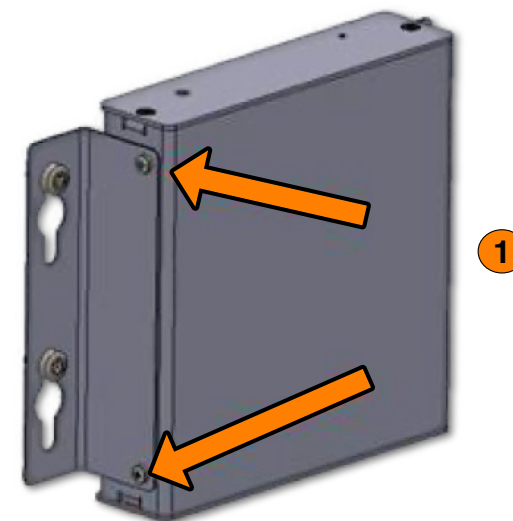
1. Insert the supplied screws into the two (**2**) keyed slots on the L shaped bracket (as displayed on the image at the right).

   This L shaped bracket **can be pre-installed** and the HDA-130 amplifier can be inserted afterwards.
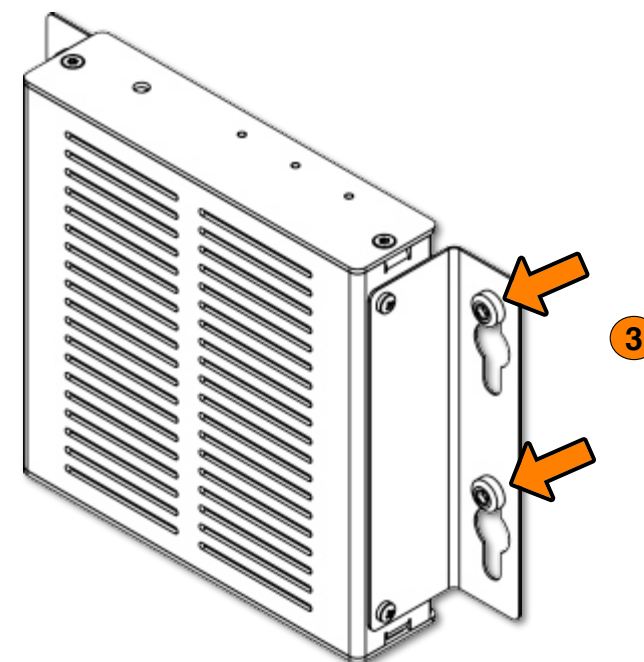
2. Insert the supplied screws into the four (**4**) keyed slots for wall mounting.

Please note, the keyhole diameter is **0.48"/12.5mm**.

4

3. Ensure that all screws have been installed **securely**.
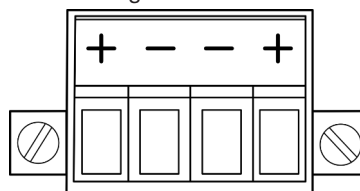
Connecting Speakers

The **HDA-130** can be placed nearly anywhere and deliver power to a local zone.

To connect a speaker wire:

1. Connect the **speaker wire** to the positive (red) and negative (black) to the wire terminals available on the speaker (be mindful of proper polarity).

   Please refer to the manufacturer's owner's manual for specific instructions on wiring the speaker.

2. Loosen the integrated slotted-style screws (turn counter-clockwise) and **remove the phoenix connector from the terminal block on the HDA-130**.

3. Secure the **speaker wire into the phoenix connector** (using the integrated slotted-styled screws), and reinsert it into the terminal block.

4. Using the integrated slotted-styled screws on the left and right sides of the phoenix connector (image at the right), **secure the phoenix connector to the terminal block**.

Verify the polarity of the speakers and the wires before returning the phoenix connector into the terminal block on the amplifier.

Network Setup

When using more than one (**1**) HDA device, URC's **HDA-SW5 Network Switch** is **REQUIRED** on the local network.

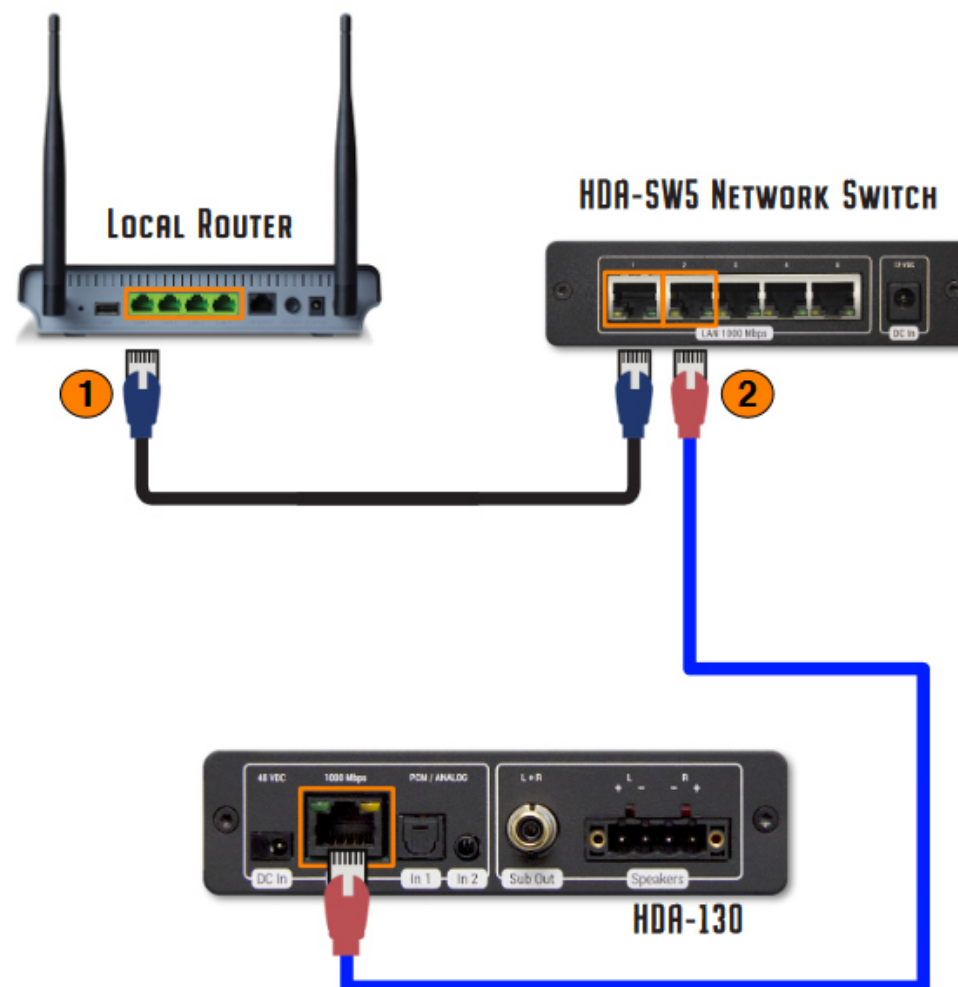For more information of the **HDA-SW5 Network Switch**, please refer to the HDA-SW5 Owner's Manual.

Although 3rd Party AVB switches may be utilized, they are **NOT** supported by URC's Technical Support team.

Connecting the HDA-130 to the Network

1. Connect an ethernet cable to an available **LAN port** on the head-end network switch.

   If no switch is connected to the network then connect the ethernet cable to an available LAN port on the local router (Luxul preferred).

2. Connect the ethernet cable from the previous step to any available LAN port on the **HDA-SW5**.

3. Connect another ethernet cable to an **available LAN port on the HDA-SW5 Network Switch**.

4. Connect the ethernet cable from the previous step to the ethernet port found at the **rear of the HDA-130** (page 3).

5. Configure the HDA-130 to a **DHCP/MAC reservation** within the local router and program the device into the new or existing Total Control system.

   A **certified URC integrator** is **REQUIRED** to integrate the **HDA-130** into a new or existing Total Control system.

HDA Modules

URC's HDA line of products contain several **two-way modules** that are accessible from any graphical user interface. These modules serve a variety of residential and commercial applications providing end-users with **advanced functionality** directly from any URC interface.
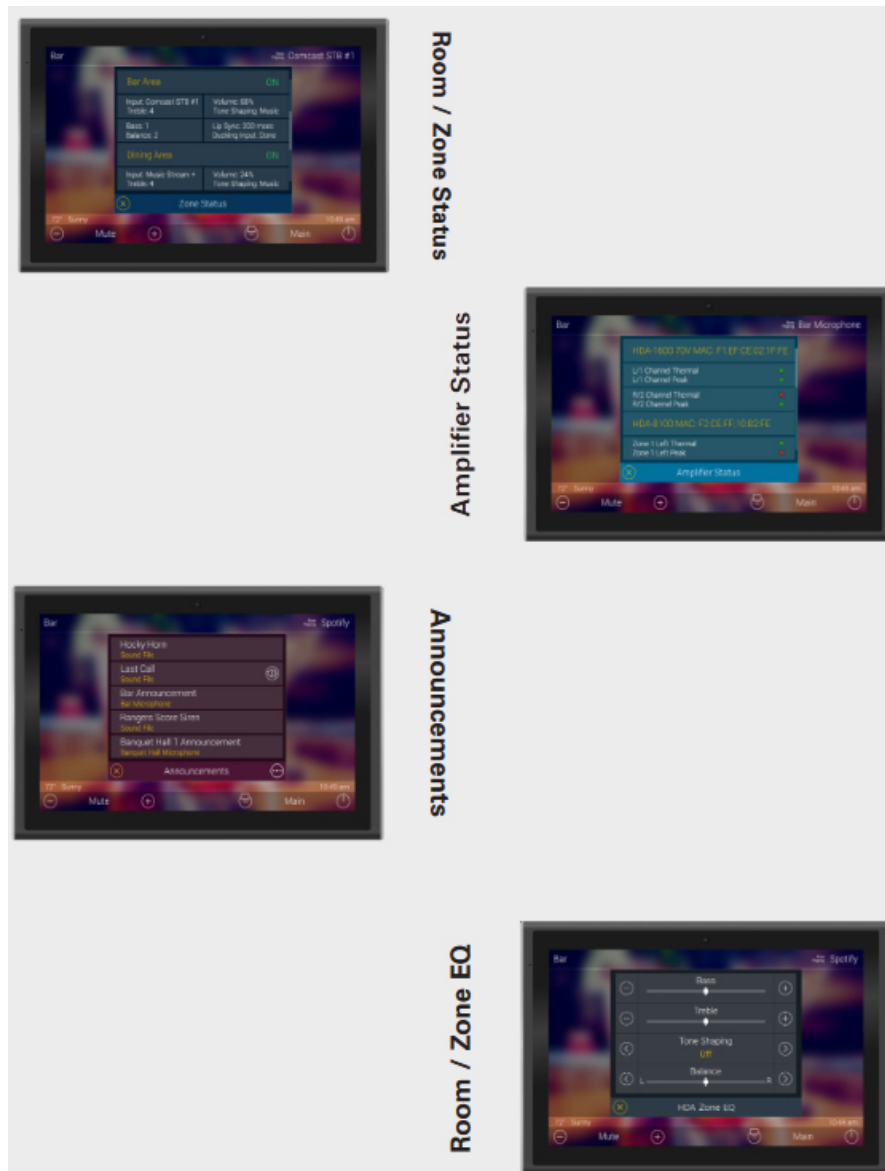
For specific instructions on how to use these HDA modules, please refer to the **HDA User's Guide**.

The following modules are supported by the **HDA-130**:

- **Room Volume Module**

- **Room / Zone EQ Module**

- **Volume Mixer Module**

- **Announcement Module**

- **Input Status**

- **Amplifier Status**

- **Zone Status**

> The examples shown are only a few of the available modules for HDA devices. For **full details**, please refer to the HDA User's Guide.

Room / Zone Status

Amplifier Status

Announcements

Room / Zone EQ

Specifications

Inputs:

- 1 x 3.5 mm analog (unbalanced) input (adapter required for

- Coaxial Digital input)

- 1 x PCM TOSLink Digital input

Zone Speaker Outputs:

- One (**1**) stereo amplifier output channel

- Single L (left) + R (right) preamplifier output for subwoofer application

Audio:

- Frequency Response: ±0.4 dB, 10Hz - 20kHz, all loads 4Ω - 8Ω

- Signal to Noise Ratio: >100 dB

- High & low pass filters per zone

- Each Zone supports a fully customizable 5-band parametric EQ

- Permanent Zone Grouping (also between multiple amplifiers)

- 96 kHz / 24-bit streaming

- Ducking input capability

- Page event support

- Store up to 10 .wav files in each amplifier (for doorbell ring and/or trigger alert chimes)

Rate Wattage Per Channel:

- 30W RMS per channel @ 8Ω

- 70W Peak Power Output per channel

Power:

- **AC Main Power:** Universal mains 100-240VAC, 50 - 60 Hz

- **Power Consumption:** 48 V DC 1.25A (supplied adapter)

Thermal:

- **Operating Temperature:** 32° F to 86° F

- **Humidity:** Maximum 95%

- **Storage:** -40°F to 140°F

Network: One 10/100/1000M RJ45 Ethernet port (two LED indicators)

Weight: 12 oz

Size: 1" x 4.5" x 5"

Limited Warranty Statement
https://www.urc-automation.com/legal/warranty-statement/

End User Agreement
The terms and conditions of the End User Agreement available at https://www.urc-automation.com/legal/end-user-agreement/ shall apply.

Federal Communication Commission Interference Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

CERTIFICATE OF COMPLIANCE

Certificate Number	E496941
Report Reference	E496941-A6018-UL
Issue Date	2020-JUNE-29

Issued to:	ICEPOWER A/S Vandtarnsvej 62A, 3B 2860 Soborg DENMARK
This certificate confirms that representative samples of	Audio/Video, Information and Communication Technology Equipment Audio amplifier Model: HDA-130
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 62368-1 and CAN/CSA C22.2 No. 62368-1-14 Audio/video, information and communication technology equipment Part 1: Safety requirements
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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Page 1 of 1

Warning!

The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Regulatory Information to the User

- CE conformity Notice Products with "CE" marking comply EMC Directive 2014/30/EU issued by the commission of the European Community.

  1. EMC Directive

      - Emission
      - Immunity
      - Power

- Declaration of Conformity

  "Hereby, Universal Remote Control Inc. declares that this HDA-130 is in compliance with the Essential requirements."