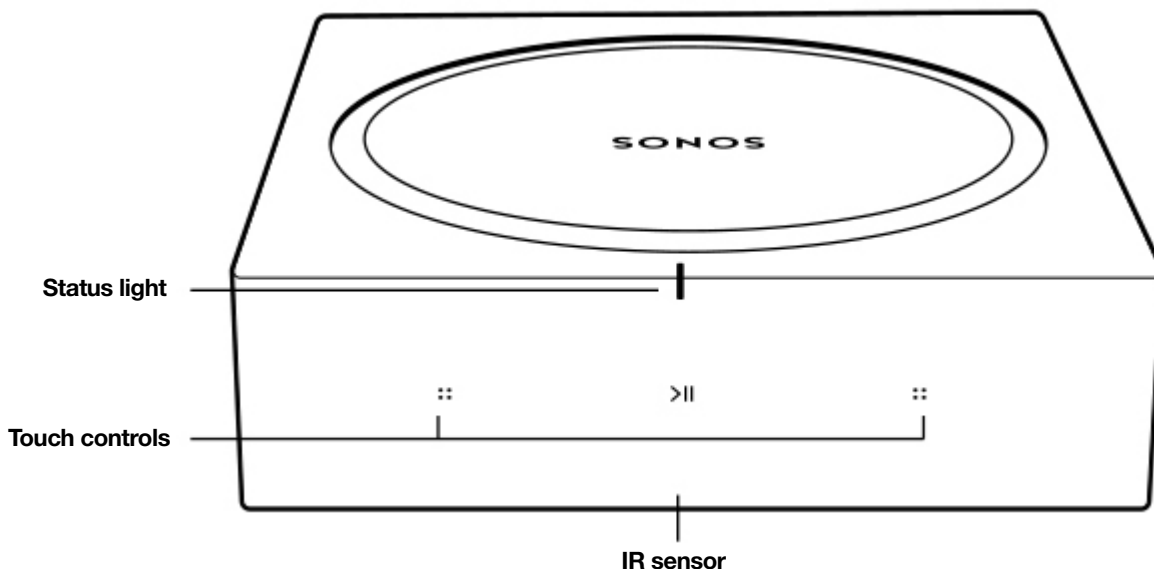# SONOS

Sonos

User Guide

Amp

Amp features a built-in state-of-the-art digital amplifier that can power large or small speakers so you can enjoy superior audio in any room.

- Power your bookshelf, floor-standing, in-wall, and in-ceiling speakers.
- Connect to your TV to create the ultimate entertainment system.
- Stream everything you love with the Sonos app and AirPlay.
- Plug in any audio device, like a turntable or a phone, and listen out loud.
- See **Getting started** when you're ready to add Amp to your Sonos system.

Controls and lights

Swipe, touch, or tap—with Amp you've got choices on how to control the sound.

- Use the touch controls on Amp.
- Use our app.
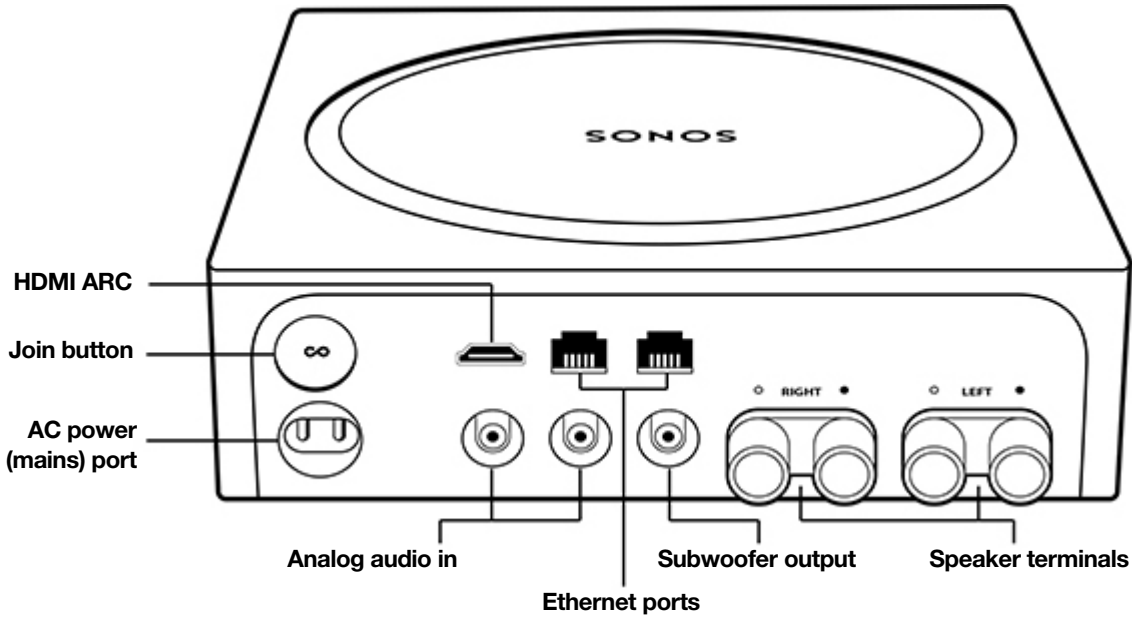- Use your TV remote control.

Note: See **The Sonos app** for more information on how to use our app.

Touch controls

	Status light	Indicates the status. For more information, see **http://faq.sonos.com/led**.
⠿	Volume control	Touch for small adjustments or touch and hold to quickly change the volume: • **Volume up** (right) • **Volume down** (left) **Note:** You can also use our app or your remote control.

>‖	**Play/Pause**	Touch to play or pause sound. • **TV**—When the TV is on, touch >‖ to toggle the sound on and off. • **Music**—When the TV is off, touch >‖ to pause or restart music.
∷ >‖ ∷	**Next/Previous** (Music only)	• Swipe right across the touch controls to skip to the next song. • Swipe left to go to the previous song. **Note:** You can't skip forward or go back when listening to a radio station.
	IR sensor	The IR (InfraRed) sensor receives signals sent by a remote control.

Connector panel

HDMI ARC	Use an HDMI cable to connect Amp to your TV's HDMI ARC port.
Join button	Press to connect during setup.
AC power (mains) port	Use only the supplied power cord (using a third-party power cord will void your warranty). **Note:** Insert the power cord firmly.

Analog audio in	Use a standard RCA audio cable to connect Amp's analog audio inputs to the audio outputs from a separate audio component, such as a turntable or a portable music player.
Ethernet ports (2)	Use an Ethernet cable if you want to connect to a router, computer, or network-attached storage (NAS) device (optional).
Subwoofer output **Note:** If you disconnect your subwoofer, make sure to also disconnect the subwoofer's cable from the Amp output.	Connect a powered subwoofer to this output using a standard RCA cable. The system will detect when a cable is connected to the subwoofer output and adjust the crossover frequency automatically.
Speaker terminals	Use high-quality speaker wire to connect your speakers to Amp.

What can you do with Amp?

Play music through your favorite speakers

Connect your favorite bookshelf, floor-standing, in-wall, or in-ceiling speakers to Amp to stream all the music you love. Connect a turntable, stereo, or portable music player and play the sound on any Sonos speaker.

Enhance your TV sound

Connect Amp to your TV to create the ultimate entertainment system.

- Use Amp and a pair of 3rd-party speakers to create two front audio channels.
- Use Amp with third-party speakers to add surround sound if you already have a Sonos home theater speaker (Beam, Playbase, Playbar, or another Amp) connected to your TV.

(For even deeper sound, add a Sonos Sub or connect a third-party subwoofer.)

See **Connect Amp to your TV** for setup information.

Select a location

You can place Amp just about anywhere— in an electronics rack, on a shelf, or on a credenza with your TV.

Rack mounted

- Amp mounts perfectly in any electronics rack.
- Place two Amps side by side in a 2U rack.
- Place four Amps in a 3U rack.

Placed on a credenza

- Place horizontally on a stable and level surface at least 3" (50mm) from TV.
- Don't block the TV's IR sensor.
- If put on a shelf, place at the front and keep 3" (minimum) clearance on all sides.
- Don't block the front of Amp so you can reach the touch controls.

Connect the cables

Attach desired speakers

Your speakers' power rating should be at least 125W for 8 ohm speakers, and at least 200W for 4 ohm speakers. Do not connect speakers rated at less than 4 ohm.

Note: Amp can drive speakers with nominal impedance above 4 ohms. Two pairs of 8 ohm speakers wired in parallel are also supported. Don't wire your speakers in series because it will result in poor sound quality.

1. Remove the cap from the banana plug to reveal the connection hole.
2. Insert the stripped end of the speaker wire into the hole, then return the cap to the banana plug to secure the connection.

Note: Connect the **red** (+) and **black** (-) terminals from each speaker to the corresponding banana plug and terminal on Amp. Mismatching of polarities will result in weak central sound and a distorted sense of sound direction.

3. Insert the banana plug into the proper speaker terminal on the back of Amp.
4. Repeat to install the other speaker wires.

Connect the power cord

Attach the power cord and plug in Amp.

You'll use our app to set up and control your Sonos system. If you don't have the Sonos app, download it from your app store. See **Controls and lights**.

Connect Amp to your TV

Use an HDMI cable to connect Amp to your TV. When connected, Amp creates two front audio channels and plays your TV sound through your favorite non-Sonos speakers.

Note: You may need the **optical adapter** too (the app lets you know).

1. Fully insert the HDMI cable into Amp's HDMI port.
2. Connect the HDMI cable to your TV. You have two choices:
   - **If your TV has an HDMI ARC port**, connect the HDMI cable directly to the TV's HDMI ARC port.
   - **If your TV doesn't have an HDMI ARC port**, attach the optical adapter to the HDMI cable and connect it to the TV's optical digital OUT port.
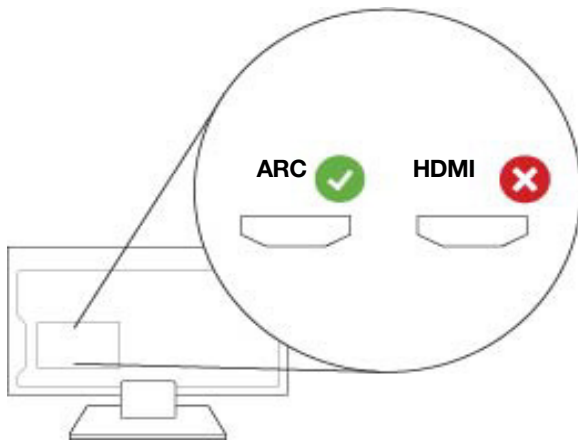
If your TV has an HDMI ARC port

HDMI ARC is a special port that looks like a standard HDMI port. Although they look the same, if you connect to a standard HDMI port, *you won't hear sound*.

1. On your TV's **audio OUT** panel, locate the **HDMI ARC** port.

It may be on the back or side of your TV. Look for the port with "ARC" on the label.
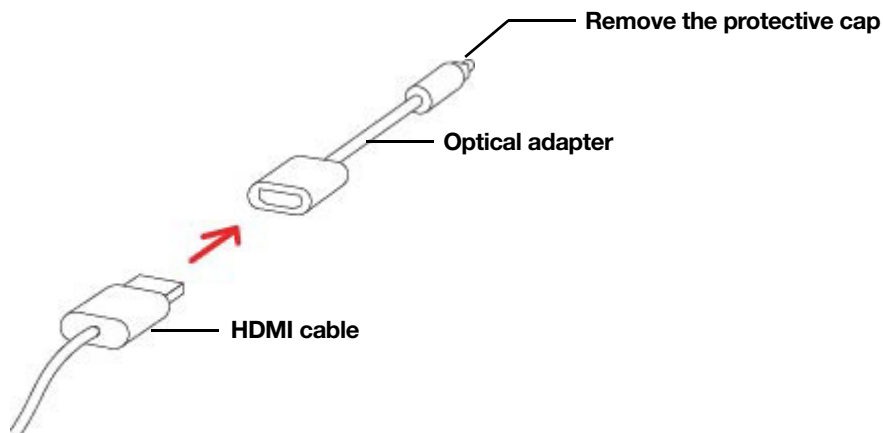

2. Connect the HDMI cable to the TV's **HDMI ARC** port.

Note: If you can't find a port with the word "ARC" on the label, your TV doesn't have an HDMI ARC port. See **If your TV doesn't have an HDMI ARC port**.

If your TV doesn't have an HDMI ARC port

You'll need the **optical audio adapter**.

1. Remove the protective cap from the optical adapter.
2. Attach the optical adapter to the HDMI cable.

3. Connect the optical adapter to the TV's **optical digital OUT** port.

   Note: The optical adapter's port is "D-shaped"—make sure the connector aligns correctly into the port. Inserting the adapter incorrectly may damage the cable.

You'll use our app to set up and control your Sonos system. If you don't have the Sonos app, download it from your app store. See **Controls and lights**.

Line-in

See [From other audio devices](#) to learn how to connect an external source like a pre-amplified turntable to any Sonos speaker that has a line-in connection.

Change from stereo to mono

Amp plays audio in stereo by default. You can set it so that Amp plays in two mono channels when playing music.

1. Tap **•••** > **Settings** > **Room Settings** and select the room.
2. Tap **Advanced Audio** > **Stereo/Mono**, then choose an option.

Specifications

Feature	Description
Audio	
Amplifier	Class-D digital amplifier
Amplifier power	125W/Ch into 8 ohms
Speaker Connections	Banana plugs (2)
Line-In Sources Supported	Audio device with analog RCA output or optical output (optical adapter required). TV device with HDMI ARC or optical output (optical adapter required).
Subwoofer Output	Auto-detecting RCA type, adjustable crossover
Networking	
Wireless Connectivity	Connects to your home Wi-Fi network with any 802.11 b/g/n router. 802.11n only network configurations are not supported—you can either change the router settings to 802.11 b/g/n or connect a Sonos product to your router.
Ethernet Ports	Dual Ethernet ports can connect Amp to a wired home network and allow for connection of additional Sonos players.
General	
System Requirements	Passive speakers with speaker wire, broadband internet, and Sonos app.
Power Supply	AC 100-240V, 50-60 Hz
Controls	Touch interface with volume up/down, previous/next track and play/pause.
Status indicator	Light indicates Amp status.
Dimensions (H x W x D)	2.52" H x 8.54" W x 8.54" D, (64mm x 217mm x 217mm)
Weight	4.6 lbs. (2.1 kg)
Operating Temperature	32°F to 104°F (0°C to 40°C)

Feature	Description
Storage Temperature	-4°F to 122°F (-20°C to 50°C)
Product Finish	Black
Package Contents	Sonos Amp, Sonos banana plugs (2), AC power cord, warranty and regulatory booklet, and Quickstart Guide.

* Specifications subject to change without notice.