a sound relationship
Russound

Product Guide
D890
Amplifier



D890 - Premium Multi-Channel Amplifier

The D890 low-profile amplifier is perfect for several different applications. Whether you want to drive your premium home theater speakers for optimum sound quality for your favorite movies or TV, or if you want to have enough power to drive multiple speakers all around the home with your favorite music, the D890 from Russound is there to meet your needs.

Russound amplifiers have been a go-to choice for audio specialists for years due to their performance, reliability and value and the D990 is built with the expertise to extend that legacy for years to come.

What's in the Box

- D890
- 6-foot Power Cord
- Set of removable 4-pin speaker connectors
- Set of rack mount ears with screws
- Owner's Manual



New premium industrial design for a clean look on a shelf or in a 19" rack.

Powerful Class-D amplifiers with up to 8 channels and up to 90 watts per channel. The inputs are bridgeable for even more power when needed.

3 input options for every channel with 2 bus inputs and 1 line input provide source flexibility.

Easy to configure options for Full Range sound, Low Pass filter 20Hz-160Hz, or High Pass filter 80Hz-20kHz.

Control flexibility with 3 turn-on modes from Always On, Signal Sensing to 12 V Trigger Control.

Rack mountable, low-profile form factor with 1 rack unit height.

Ideal for larger spaces and outdoor areas.

D890 Amplifier at a Glance



D890

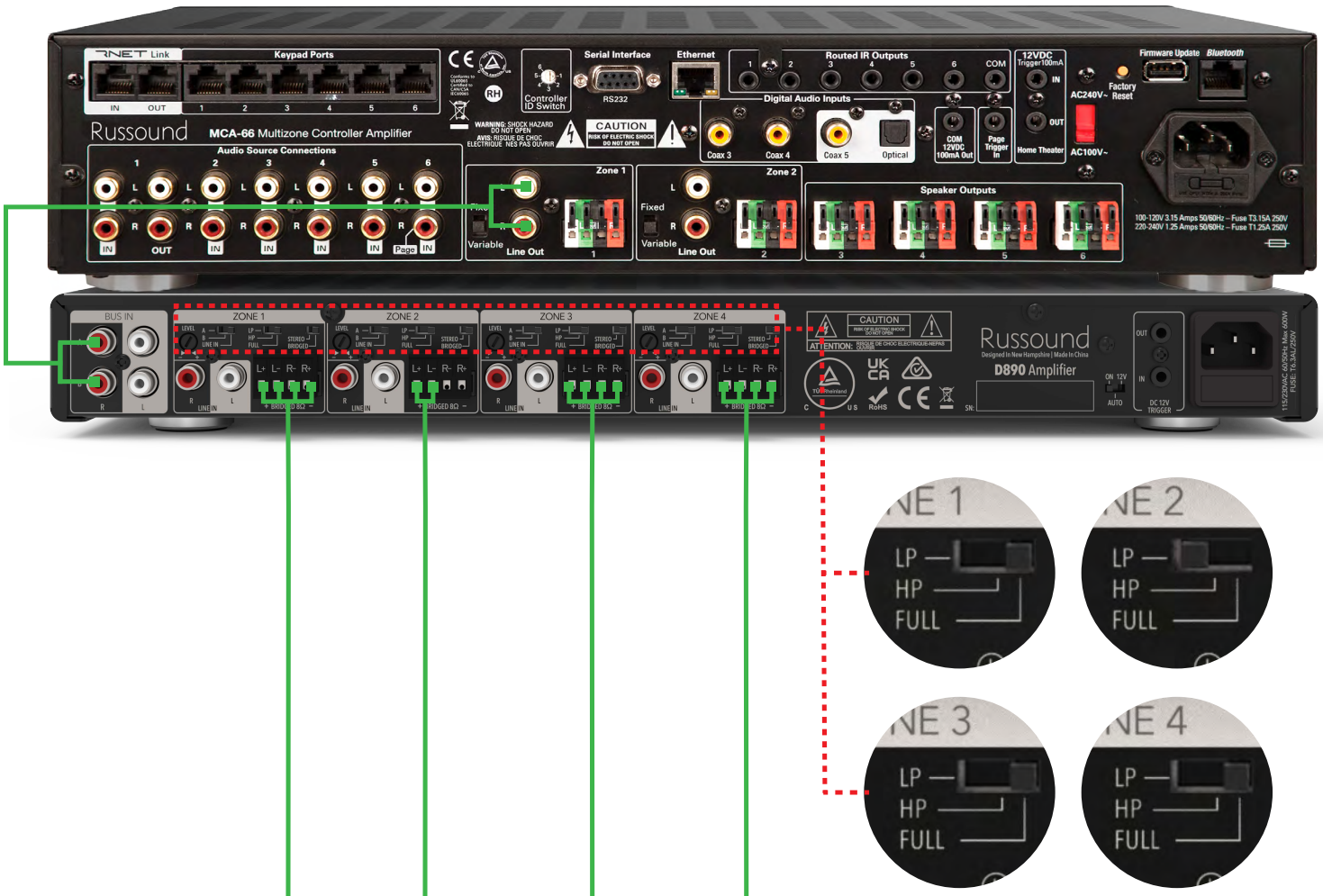
- Eight Channel 1 Rack Unit Premium Performance Amplifier
- 90 watts per channel @4 ohms
- 2.66 ohm stable, powers up to 3 pairs of 8-ohm speakers per zone
- Power On Modes: Signal Sensing/12V trigger/Always On
- Audio Filters: Full Range, Low Pass 20Hz-160Hz, High Pass 80Hz-20kHz

Ports



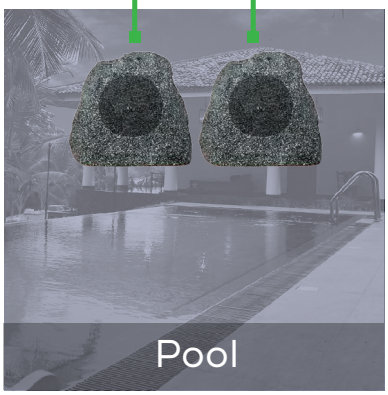
1. Dual Bus Inputs – Allows for up to 2 different audio sources to be configured to be shared among any of the amplifier's zones
2. Dedicated Zone Input – Allows for a dedicated audio source to be provided to each of the amplifier's zones
3. Level Gain Adjustment – Allows for a gain adjustment (increase/decrease) for every zone
4. Zone Input Selector – Setting this allows for an easy configuration for either using Bus Input A, Bus Input B, or the dedicated Line In for each zone
5. Audio Filter Setting Switch – Easily set for Low Pass (LP), High Pass (HP), or Full-Range (Full) depending on the audio needs for each zone
6. Stereo/Bridged Mode Switch – When bridging a zone's channels into a single, mono zone, set this to Bridged. Please note that speaker wiring must be re-configured for Bridged Mode as outlined in the owner's manual
7. Speaker Connection – The removable screw-down speaker selectors accept up to 12AWG wire
8. Turn-on Mode Switch – Set for Always On, Auto-Sensing, or 12V for use with the 12V trigger input
9. 12V Trigger In/Out – To enable automated turn-on and turn-off via a 12V DC trigger. When using the trigger, make sure to set the Turn-On Mode Switch to 12V

Application Example: Add extra Speakers to any System









*The D-Series amps are stable to 2.66 ohms, so you can add 3 pairs of 8 ohm speakers where needed.

Specifications

	D890
Number of Channels	8
Filter Options	High Pass, Low Pass, Full Range
Power Output - 4Ω	90W /Channel, 1kHz One Zone Driven
Power Output - 8Ω	45W /Channel, 1kHz, One Zone Driven
Power Output - 8Ω Bridged	180W, 1kHz, One Zone Driven
Freq Response	Full Range Mode: 20Hz to 20kHz +/-3dB at 1W output into 4 or 8 Ohms Low Pass (LP) Mode: 20Hz to 160Hz +/-3dB at 1W output into 4 or 8 Ohms High Pass (HP) Mode: 80Hz to 20KHz +/-3dB at 1W output into 4 or 8 Ohms
Input Sensitivity	4Ω, One Zone: 620 mV for 90W @ 1kHz 8Ω, One Zone: 690 mV for 45W @ 1kHz
Input Impedance	>22k ohms Line Input
Signal to Noise Ratio	>90dB A-weighted
Signal to Noise Ratio , 8Ω	>96dB A-weighted
Trigger Input	12V, Global
Trigger Output	12V, Global
Volume Gain Adjustment	By Zone
Line Inputs	Selectable: Bus A, Bus B, Zone
Speaker Connectors	Detachable Screw-down, up to 12 Gauge
Operating Temperature	32°F to 104°F (0°C to 40°C)
Altitude	0 to 9,843ft (3,000m)
Power Requirements - North American Model	115-120VAC, 60Hz (800W Max)
Power Requirements - International Model (-i)	220-240VAC, 50Hz (800W Max)
Power Connector	IEC C14
Standby Power Consumption	Less Than 0.5W
Product Dimensions	17.125" (W) x 1.75" (H) x 9.75" (D) (43.5 x 4.4 x 24.8 cm)
Product Weight	9 lbs (4.1 kg)
Shipping Dimensions	20.2"(W) x 4.9" (H) x 14.3" (D) (51.33 x 12.5 x 36.3 cm)
Shipping Weight	10.6 lbs (4.8 kg)
Limited Warranty	2 Years

a sound relationship

Russound

WE'RE IN THE BUSINESS TO HELP OUR DEALERS



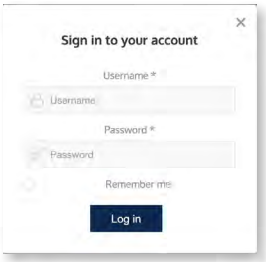
RCI Program

- Prevents unauthorized internet reselling
- Units ship in lock-down mode
- Russound Certified Installer credentials required to activate and install
- Installers must accept agreement that they will not resell online
- Featured on all new MCA-Series Controllers and MBX-Series Products
- 16,000+ Installers Worldwide
- Award-winning tech support

RUSSOUND CERTIFIED INSTALLER

Dealer Website

- The tool kit every partner needs. All in one place!
- Password-protected, dealer-only information available
- Current Promos & Dealer Price Sheet
- Training & Tech Tips including alerts when new YouTube videos are posted
- Recent Email Blast Announcements
- Dealer Version of Product Pages
  - o Firmware Updates
  - o Training Files



Integrator Support

- Dealer Locator on our site so end users can find knowledgeable dealers
- RCI Products sold through distribution, not direct
- Profitable margins
- Training webinars and tech tip videos
- Surveys & outreach to identify customers' needs



Online Training Modules

- The training modules on our site are intended for users and prospective users to develop a basic understanding of Russound's products, functionality and operation.
- Available Modules: MIXAMP-60 and VoicePlay

