TRIAD ®

Triad RackAmp 700 DSP Quick Start Guide

RackAmp 700 has significant changes from previous Triad RackAmps. They are highlighted in **_bold italic_**.

You must select the Triad Subwoofer Model that the RackAmp 700 DSP will drive when the amp is initially power on or after a factory reset. Once confirmed, the subwoofer model can only be changed in the Installer Setup Menu.

Triad In-Wall and In-Ceiling subwoofer model names are labeled on their front baffles. **_The RackAmp 700 DSP has EQ profiles for all current Triad Sub models (some require 8Ω enclosures). A new FLAT selection has no model EQ and its Sub High Pass Filter is turned OFF._** If you do not see your Triad subwoofer model contact support for help.

Power On Methods — Options include Auto Sense (the default), Trigger (low voltage), IR/IP, and Manual (the front panel button). Other IR commands continue to work if IR/IP is not used for powering the amp on.

For remote troubleshooting and configuration, use IR/IP to let the amp go to standby mode. See the "Triad RackAmp 700 DSP v2 Instructions for IP Setup & Advanced Features" at **snp1.co/tc** for more info.

To disable all power on methods for the amp (except manual), press the front standby button. Press the standby button again to resume normal functions.

A solid blue light indicates the amp is on. A red light means the amp is in standby. Flashing red means the amp is in protection mode.

Protection — No output? If the front panel button is flashing red the amp is in protection mode. This could be from a short, heat, or over voltage. Check the cables for shorts and verify the amp has adequate ventilation. If the amp is hot, power it off and allow it to cool down (up to 30 minutes). If that doesn't work, reset the RackAmp by switching off the Mains power switch, next to the back panel's power cord, for 30+ seconds.

Input Selection & Outputs — From the User Menu, select the desired input from default RCA (LFE unbalanced), XLR (unbalanced), and Speaker. Only the selected input gets amplified. Speaker level inputs cannot pass through to any output.

For daisy chaining, only the selected XLR or RCA input can pass through to its output. Both XLR and RCA outputs can be high pass filtered and delayed for bass management and time alignment of 2-channel systems or for multiple subs to produce different parts of the bass spectrum.

Menus — Menu changes affect all inputs and occur in real time. All changes are saved instantly. Volume changes are not volatile. RCA (unbalanced), XLR (balanced), and Speaker inputs can be filtered. **_The default user volume is 00dB. Switching the amp to Standby does not reset the volume to 00dB. For permanent gain matching, use the User Volume. There is no Input Gain adjustment in the Installer Menu._**

Presets — Use presets to change the sound to match your circumstance. The default preset is **Normal**. The **Cinema** preset boots the bottom end at 40Hz for extra oomph during movies. The **Night** preset reduces deep subwoofer frequencies at 35Hz as a courtesy to others. **User 1, 2, and 3 Custom** presets are only configurable via IP to match specific circumstances using 2 parametric filters and a separate default volume per user preset. The amplifier maintains its preset when put into standby. For repeatability, calibrate to the Normal preset.

RackAmp 700 DSP drives speaker loads of 4Ωs or higher. Use with 8Ω Mini and Bronze subs only, as singles or in pairs.

Advance Features — To configure 6 Band Room EQ and custom User Presets, read the "Triad RackAmp 700 DSP v2 Instructions for IP Setup & Advanced Features" at **snp1.co/tc** for more info.

IR Input/Output — The IR input accepts commands from IR distribution. The output allows daisy chaining IR control of multiple RackAmp 700s. Insert a 3.5mm (mono) plug into the IR input to disable the front panel IR receiving eye.
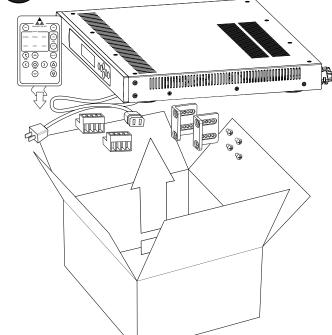
Input Voltage & Fuses — The RackAmp 700 automatically adapts to 110VAC or 220VAC. The only necessary change is an IEC power cord that''s appropriate for the local conditions. Fuse values do not change. There are no internal fuses. The fuse is accessible is to the left of the IEC power cord socket.

Firmware Updates — Read "Firmware Update for Triad RackAmp 700" at **snp1.co/tc** for more info.

Specifications — 700 Watts; 3.5 Amps/220VAC, 7 Amps\110; 10AL250VP Fuse; 3ms latency.
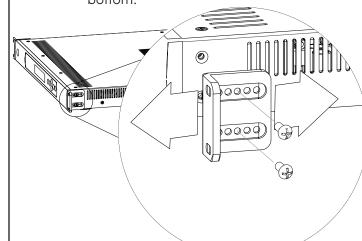
A Unpacking/Contents

B Rack installation

Install rack ears with the pre-packaged screws. Keep ventilation slots clear for airflow, particularly right front top and bottom.

Technical Support

For chat and telephone, visit **snp1.co/techsupport** • Email: **TechSupport@SnapOne.com**. Visit **snp1.co/tc** for discussions, instructional videos, news, and more.
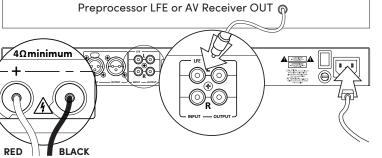
Warranty and Legal Notices

Find details of the product's Limited Warranty at **snapone.com/legal** or request a paper copy from Customer Service at **866.424.4489**. Find other legal resources, such as regulatory notices and patent and safety information, at **snapone.com/legal**.
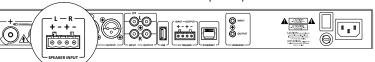
C Connections

Output (to subwoofer), Inputs, AC cord

Preprocessor LFE or AV Receiver OUT
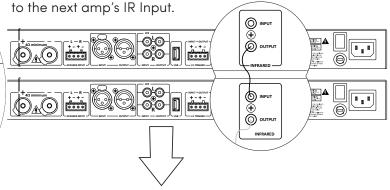
4Ω minimum

RED   BLACK

To single 4Ω Silver, Gold & Platinum subs and **single or dual 8Ω Mini and Bronze subs only.**

Daisy chain multiple amps by sending Unbalanced **RCA or Balanced XLR** source signal from Outputs to the next amp's Inputs.
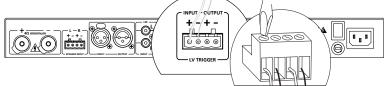
New on the RackAmp 700 DSP is speaker level input

IR Input — Accepts feed from IR distribution using cables with 3.5 mm plugs. Plugged Input disables front panel IR eye. Daisy chain IR to multiple RackAmps from IR Output to the next amp's IR Input.

Low Voltage Trigger — Via snap in/pull-out phoenix connector. Input from low voltage (3-15V) trigger source. Daisy chain LV Output to next amp's input.

Triad RackAmp 700 DSP Features and Benefits

Significant changes from previous Triad RackAmps are highlighted in **bold italic**

Powerful RackAmp 700 DSP Class D amplifier technology provides superior bass, setup, calibration, and control. Using Triad subwoofers, single or multiple, the RackAmp 700 produces extended, high-impact, and explosive bass for movies and nuanced, detailed bass for music. You will hear the difference.

Performance — With 700 Watts and built-in EQ profiles for Triad's current subwoofer line, The RackAmp 700 ensures peak performance for each Triad model. ***The Flat setting can drive any subwoofer.***

Size — Taking up a single rack space (1RU), the RackAmp 700 saves rack and shelf space.

Energy Start Compliant — High efficiency saves energy and money.

Balanced Input and Output — The RackAmp 700 uses high-end multi-channel and 2 channel systems using Balanced XLR connections.

Speaker Level Inputs — Allows you to add subs to any system, even house music.

2-Channel Bass Management — With Crossovers and Delay (time alignment) on ***Unbalanced and Balanced Line Outputs*** improves the sound of your 2-channel music system.

Unique Multi-Sub Setup — Delays, filters, and level adjustments provide increased control of daisy chained subwoofers. Experience better bass impact, dynamics, and accuracy when all your subwoofers work together.

Four Power/Control Options — Sense, Trigger (low-voltage), IR/IP, and Manual power-on methods let you integrate the RackAmp 700 with every type of control system.

Dynamic Menu — Menu changes immediately take effect so you hear changes as you make them. All changes are ***instantly saved***.

Three Convenient Setup Methods

1. Use the RackAmp 700 as-is for high-performance plug & play.
2. Front panel display and menu access a broad array of DSP filters and control options to refine system performance and integration. Available manually and with an IR remote control.
3. Use IP configuration to custom-tailor every aspect of the RackAmp 700. IP configuration allows you to configure and calibrate the system remotely and provides two Advanced Features:

- Create a One Room EQ profile with six manual PEQ filters to optimize the sub for the room.
- Customize up to three User presets, each with two additional parametric filters and preset volumes, for individual use cases.

Menus and Setup

Use the cursor and Enter buttons on the remote control or front panel.

Warning
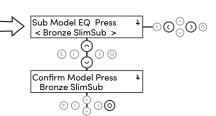
The IR Remote supplied with this product contains a coin/button cell battery. Keep product and batteries away from children. Battery can cause severe or fatal injuries in 2 hours or less if swallowed or placed inside any part of the body. Seek immediate medical attention if it is suspected that a coin/button battery has been swallowed or placed inside any part of the body.
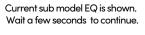
Menu Navigation, Operation, and Saving:

Use the Up and Down buttons to navigate through menus.

Item between arrows is selected and active immediately.

Use Left and Right buttons to change values. Enter ⊙ is not needed unless prompted.

All changes are saved instanlty. To exit Installer Menu, press Back.

Submenus appear only when relevant. For example, you can see & select a Delay amount when delay is active.

Sub Lowpass Filter
300Hz< LFE > 30Hz

INSTALLER MENU CODE

Installer Menu
Enter Code ***

Access to the Installer Menu is located at the bottom of the User Menu. The Enter Code is Left, Right, Left.

First Power On

Select Triad subwoofer model this amp will power.

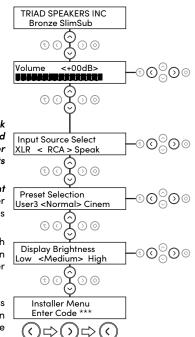*Select Bronze SlimSub for all current Bronze SlimSub models. Flat has no EQ or Sub HighPass filter set.*

Sub Model EQ Press
< Bronze SlimSub >

Confirm Model Press
Bronze SlimSub

User Menu

Current sub model EQ is shown. Wait a few seconds to continue.

TRIAD SPEAKERS INC
Bronze SlimSub

MUTE, -40dB to +11dB
Changing Volume is the only way to adjust Input Gain. Changes are permanent

Volume   <+00dB>

XLR, RCA, Speak
Select between balanced (XLR), unbalanced (RCA), or speaker inputs

Input Source Select
XLR < RCA > Speak

Normal, Cinema, Night
User1, User2, User3 allow user to select preset EQ profiles

Preset Selection
User3 <Normal> Cinem

Low, Medium, High
Adjusts display brighteness on front of amplifier

Display Brightness
Low <Medium> High

To enter Installer Menu, press these three buttons in sequence

Installer Menu
Enter Code ***

Installer Menu

IP Address
xxx.xxx.xxx.xx

Shows slected sub model EQ profile. *Change the selected sub to any current Triad model. Flat has no EQ.*

Current Sub Model EQ
< Bronze SlimSub >

0°, 180°
Invert phase of sub output

Phase
180 < 00 > 180

30 Hz to 300Hz, LFE
Filters sub output only. LFE bypasses filter when using sub crossover in your AVR or pre-processor.

Sub Lowpass Filter
300Hz< LFE > 30Hz

12, 24, 48
Sets the rollof slope (in dB/octave) of the Sub Lowpass fitler.

Sub Lowpass Slope
12 < 24 > 48

20Hz to 100Hz, OFF
Sets low-end extension for Sub output to only increase frequency for more headroom. Do NOT turn OFF.

Sub Highpass Filter
OFF < 20Hz > 21Hz

12, 24, 48
Set the roll-off slope (in dB) of the Sub Highpass filter.

Sub Highpass Slope
24 < 48 > 12

30 Hz to 300Hz, Thru
Removes lover frequences from line outputs. For 2-channel systems without bass managemnet and for tiered subs.

Line Output Highpass
300Hz< Thru > 30Hz

12, 24, 48
Sets the roll-of slope (in dB/octave) of the Line Output Highpass fitler.

Line Highpass Slope
48 < 12 > 24

Line, Sub, Off
Applies time delay to line outputs, sub output, or neither. Used to time-align sub to speakered or additional subs.

Route Delay to
Line < Off > Sub

0ms to 25ms
1ms dleay equals 1 foot distance.

Delay in mS or (Ft)
25.0 < 00.0 > 00.5

Manual, IR/IP, Sense, Trigger
Selects how the amp powers on out of standby.

Power On Method
IR < Sense >Trigg

03mV, 06mV, 09mV, 12mV, 15mV
Sets the audio signal level threshold to bring the amp out of standby when in Sense mode.

Sense On Threshold
03mV < 06mV > 09mV

5, 10, 20, 30, 60 minutes
Amount of time with no signal above the Sense On threshold until the amp goes into standby.

Sense Off in Minutes
10 < 20 > 30

Yes, No
Resets the amp to factory defaults. Requires confirmation below.

Factory Reset Press
Yes < No > Yes

Yes, No
Confirms a full factory reset of the amp.

Confirm Full Reset
Yes < No > Yes