

SR 5

540W Power Amplifier

Five channel power amplifier with crossover

Power Supply

Power supply voltage:	11±15 VDC
Idling current:	1.2 A
Switched off:	<0.01 mA
Remote IN voltage:	7±15 VDC (1 mA)
Remote OUT voltage:	11±15 VDC (15 mA)
Internal fuse (AFS):	40 A
Consumption @ 14.4 VDC, 2 Ω, Max Musical Power:	42 A

Amplifier stage

Distortion - THD (1 kHz @ 4 Ω) FR-RE:	0.08 %
Distortion - THD (100 Hz @ 4 Ω) SUB:	0.03 %
Bandwidth (-3 dB) FR-RE:	5 ÷ 50k Hz
Bandwidth (-3 dB) SUB:	5 ÷ 500 Hz
S/N ratio (A weighted, 1 V):	98 dB
Damping factor (1 kHz @ 4 Ω) FR-RE:	100
Damping factor (100 Hz @ 4 Ω) SUB:	500
Input sensitivity (PRE IN):	0.3 ÷ 5 VRMS
Input sensitivity (Speaker In):	1 ÷ 15 VRMS
Input impedance (PRE IN):	15 kΩ
Input impedance (Speaker In):	100 Ω
Load impedance (Min):	
5 Ch	4 x 2 Ω + 1 x 2 Ω
3 Ch	2 x 4 Ω + 1 x 2 Ω

Nominal power (RMS) @12 VDC; 1% THD :	
5 Ch @ 4 Ω	40 W x 4 + 130 W x 1
Output power (RMS) @14.4 VDC; 1% THD:	
5 Ch	55 W x 4 (4 Ω) + 185 W x 1 (4 Ω)
5 Ch	75 W x 4 (2 Ω) + 160 W x 1 (4 Ω)
5 Ch	50 W x 4 (4 Ω) + 300 W x 1 (2 Ω)
5 Ch	70 W x 4 (2 Ω) + 260 W x 1 (2 Ω)
3 Ch	150 W x 2 (4 Ω) + 160 W x 1 (4 Ω)
3 Ch	140 W x 2 (4 Ω) + 260 W x 1 (2 Ω)

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Output Power @ 4 Ω, ≤ 1% THD+N, 14.4 V:
53 W x 4 Ch + 175 W x 1 Ch

S/N ratio (ref.1Woutput):
53 W Channels: 83 dBA
175 W Channels: 80 dBA



Size

WxHxD (mm/inches)	213 x 53.5 x 300 8 ⁷ / ₁₆ x 2 ¹ / ₈ x 19 ¹¹ / ₁₆
Weight (kg/lb)	4.4 / 9.7



- PRE-OUT pass-through from high level SPEAKERS-IN input
- Fully by-passable crossover FILTERS
- Removable panel to hide and protect controls
- Monoblock aluminium heatsink construction
- Fanless convection cooling system
- Built-in SUBWOOFER volume control connector, requires only the connection of optional controller (VCRA)
- Electronic thermal control system rolls back output power in two levels (-1,5dB / 65°C; -3dB / 75°C)
- Fuse located on the control panel for easy replacement
- Connections:
 - Power supply terminals accept 7 mm diameter (4 AWG) cable
 - Speaker terminals accept 4.5 mm diameter (8 AWG) cables
 - Hi Level speaker and remote turn-on terminals equipped with removable connectors with screw fastening
- Subwoofer section stable into 2 Ω load, delivering over 300 W
- Dual range high-pass filter (50Hz÷500Hz / 500Hz÷5kHz) for multi-channel configurations

CONFIG.		SPEAKERS OUT			INPUTS		
XOVER	MODE	FRONT Ch	REAR Ch	SUB Ch	FRONT Ch	REAR Ch	SUB Ch
OFF	SCH MC FR	Hi-pass 12 dB 50 ÷ 5k	Hi-pass 12 dB 50 ÷ 220	Lo-pass 24 dB 50 ÷ 220	Input	ON OFF PRE OUT	ON OFF
ON	SCH MC FR	Hi-pass 12 dB 50 ÷ 5k	Band-pass 12 dB 50 ÷ 220 50 ÷ 5k	Lo-pass 24 dB 50 ÷ 220	Input	ON OFF PRE OUT	ON OFF
OFF	SCH MC FR	RIGHT Mono Hi-pass 12 dB 50 ÷ 5k	LEFT Mono Hi-pass 12 dB 50 ÷ 5k	Lo-pass 24 dB 50 ÷ 220	Input	ON OFF PRE OUT	ON OFF
ON	SCH MC FR	Full	Full	Full	Input	ON OFF PRE OUT	ON OFF

Inputs / Filters

Inputs	Pre IN / Speaker IN
Output	Pre
FRONT Ch Filter Full / Hi-pass:	50 ÷ 5k Hz @ 12 dB/oct
REAR Ch Filter Full / Hi / Band-pass:	50 ÷ 220 Hz @ 12 dB/oct / 50 ÷ 5k Hz @ 12 dB/oct
SUB Ch Filter Full / Lo-pass:	50 ÷ 220 Hz @ 24 dB/oct
Remote SUB Volume:	(-50) ÷ 0 ÷ (+6) dB

SR

Power for fun

Enjoy the new SR: style and performance

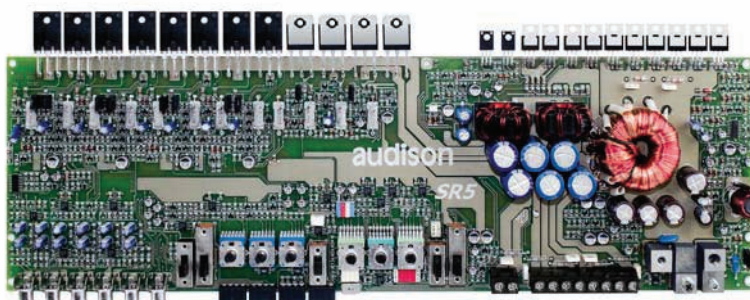
The new SR range was created for the enthusiasts who want to enter into the world of car audio through an amplifier of excellence: an amplifier which satisfies their quality, power and cosmetics desires. In terms of electronics and mechanics, the SR project is the best available product in its class; balancing size, versatility, power and, like all Audison products, sound quality.



ideato, progettato,
 ingegnerizzato in Italia

DYNAB Circuitry

For the final stage of the amplifier, the proprietary DYNAB (Dynamic AB) Class circuitry was employed, automatically managing bias current without the need for complex adjustments. DYNAB merges the simplicity of the traditional B Class amplifier with the qualitative benefits of an AB Class amplifier. Essential in the SR project is the use of the latest generation high speed TO247 transistors, fixed to the heatsink with a new spiral spring system. Smooth, dynamic sound; an Audison philosophy.



Solid Aluminium Heatsink

Internal amplifier components can reach temperatures of 90°C (194°F) or more. This is why Audison chose to create the heatsink and related parts from aluminium; a material which has no peer in terms of heat dissipation and light weight.

Level Virtual Heatsink

Electronics and mechanics merge into the new SR to create full synergy, giving form to the 2-Level Virtual Heat sink; a system which allows the amplifier to perform longer, even as it reaches high temperatures. The SR delivers maximum power, even under demanding thermal conditions, without deteriorating the sound quality.



Terminal Blocks

Unconventional in the car audio world, and approved by the most important international security regulatory authorities, the terminal blocks of the SR feature a rising clamp system, preventing the cable from damage. The new guided wire insert system accepts cables up to 4 AWG for the power supply and up to 8 AWG for the loudspeakers with easy, intuitive, safe and secure connection.

Top Panel Controls

According to the tradition of Audison, the controls for operating modes, input sensitivity and crossovers are found along the top panel of the amplifier, protected by the hinged cover plate. All crossover filters are entirely independent and are by-passable, allowing system design versatility. Also featured is the built-in remote volume control circuitry.



Hi and Low-Level Inputs

With its hi-level input, the new SR can be interfaced with virtually any factory OEM system or other source units without low-level outputs. The high level input also features ART™, negating the need for a remote turn on signal from the source. Being the only one within its market range, the hi-level speaker input signal can also be output through the PRE OUT RCA terminals. Both the low and the hi-level signal inputs incorporate the LNS™ circuit to eliminate electrical disturbances found in the car environment. These features allow you to expand any system with the highest possible sound quality.