AudioControl®

BIJOU SERIES 3100

ACP-BIJOU-3100

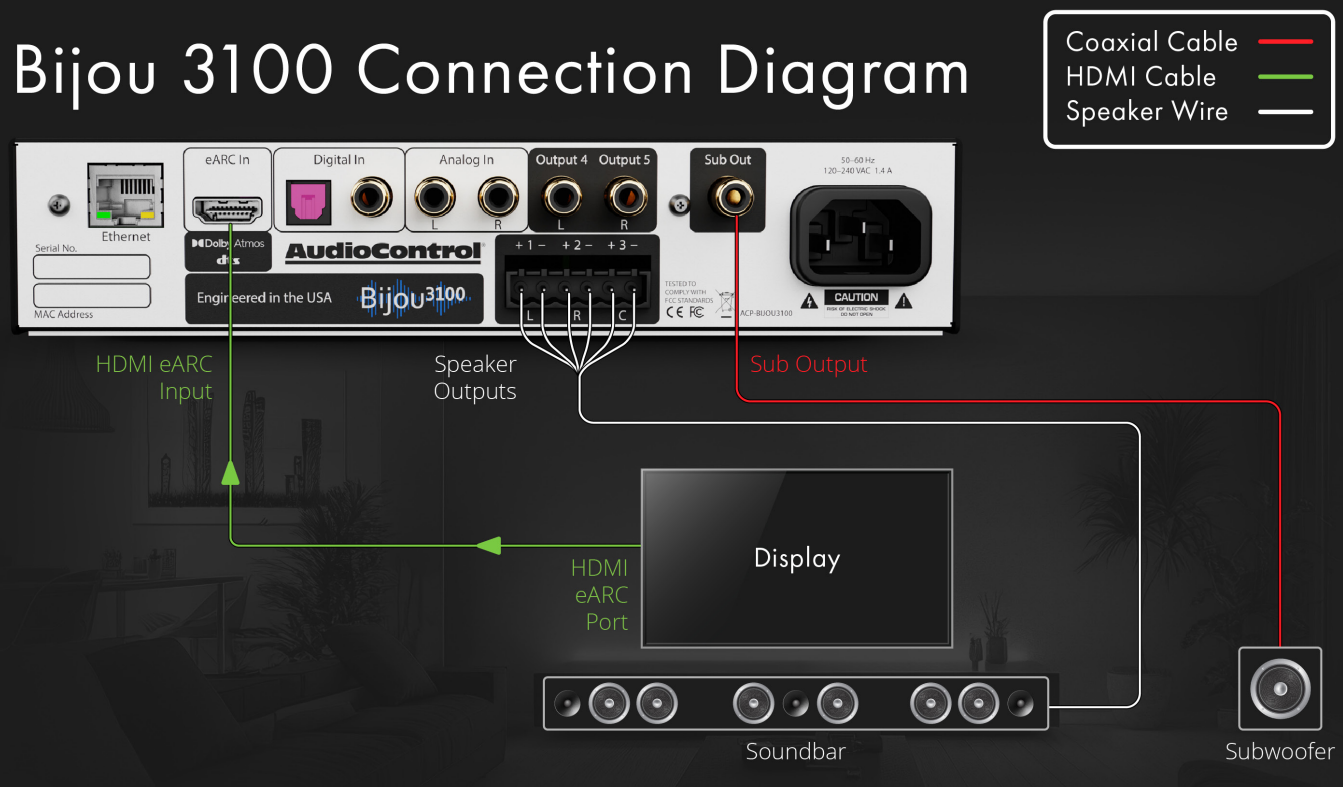


MAKING GOOD SOUND GREAT

Bijou 3100 is a compact, 3.1-channel high-power integrated amplifier for professional installations, delivering 100W per channel at 8 ohms. Featuring eARC decoding and GaN technology, it ensures highest-quality audio, supporting Dolby Atmos and DTS. Versatile connectivity options and IP control let installers deliver exceptional AV experiences in residential and light commercial settings.

The Bijou 3100 ups the channel ante to perfectly complement high-end, power-hungry passive soundbars. Left, Center, and Right game-changing GaN-fueled channels each punch well above their weight class, delivering 100 uncompressed pristine watts or more to launch the latest box office action soundtrack directly through to the living room's back wall. HDMI eARC in and line-level subwoofer out enhance TV viewing, while the automaton-friendly and web-configurable Bijou 3100 seamlessly integrates into any popular automation ecosystem.

Bijou 3100 Connection Diagram



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SPECS

INPUTS	
eARC Inputs	1 Audio-Only HDMI Input
Digital Inputs	1 Optical Toslink and 1 Coax SPDIF
Analog Inputs	Stereo L/R RCA unbalanced
Analog Input Impedance	47 kOhm
Analog Input Sensitivity	2 Vrms
OUTPUTS	
Preamp Outputs	2 RCA unbalanced
Sub Output	1 RCA unbalanced
Speaker Level Outputs	3 outputs, 6-pin speaker connector
Power Output	100W at 8 ohms, 200W at 4 ohms
AUDIO	
Minimum Speaker Load	4 ohms
Frequency Range	20Hz - 20kHz
Total Harmonic Distortion	0.15%
DAC	48k/24 bit
POWER	
Input Voltage	110 - 240 VAC
Power Consumption	
Standby	3 W
Typical loud listening (⅛th power)	125 W
Maximum	700 W
BTU/hr	
Standby	10 BTU/hr
Typical loud listening (⅛th power)	340 BTU/hr
Maximum	2046 BTU/hr
DIMENSIONS	
Height	1.7" (43.9 mm)
Width	8.3" (211.3 mm)
Depth	11.9" (302.2 mm)
Weight	6 lbs (2.7 kg)
Rack Space	0.5U

FEATURES

- HDMI eARC input transfers uncompressed high-bandwidth source audio, including Dolby Atmos, Dolby TrueHD, DTS:X, and DTS-HD Master Audio.
- GaN-based high-power, hyper-performance, Class-D amplifier design
- 100 watts RMS into 8 ohms, 200 watts into 4 ohms, all channels driven
- Analog and Digital Inputs; Analog Stereo Preamp and Subwoofer outputs
- IP and IR-Controllable for seamless third-party automation compatibility
- **Next-generation GaN Semiconductor Amplification Technology:** The Bijou 2100 Class-D GaN amplification runs cool to the touch, enabling installation options that otherwise limit traditional amplifier designs. GaN-based amplifier topologies achieve power conversion efficiencies in the 95%-99% range through higher frequency fast switching speeds and lower on-resistance, which reduces conduction loss and lowers thermal temperatures, allowing for higher output power.
- **Compact Size:** GaN implementation requires less circuit board real estate and no ancillary device components to govern thermal convection, resulting in cool-running smaller chassis dimensions with more placement options.
- **HDMI eARC Input:** Video soundtracks from connected devices or internal streaming services feature immersive audio codecs like Dolby Atmos or DTS:X. Before HDMI 2.1b, playback of these dynamic audio formats was often riddled with discerning lip sync issues as the display was last to receive the signal. eARC simplifies this process with a single HDMI cable. Automatic lip sync is mandatory for all eARC-equipped devices. It uses a dedicated audio channel via the HDMI cable for discovery, control functions, and precise audio and video alignment.
- **Web Configurable and IP-, IR-Controllable:** AudioControl provides a programmer-friendly API to integrate the Bijou 2100 into any popular automation ecosystem easily. Setup configuration is intuitive and fast via the web interface. An included remote enables stand-alone IR control.

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