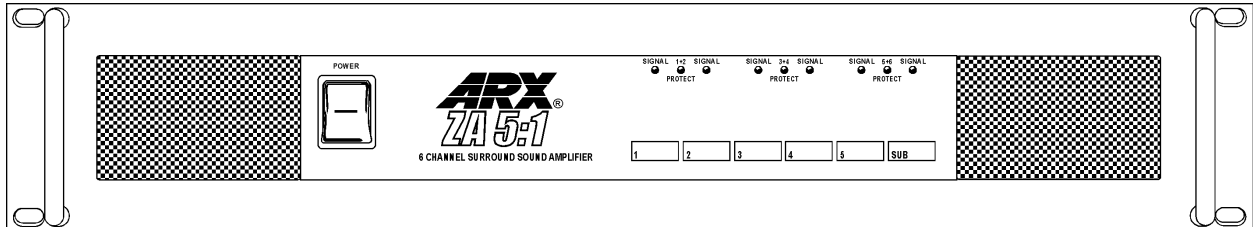


ZA 5:1



5:1 SURROUND SOUND SIX CHANNEL POWER AMPLIFIER



The ARX ZA 5:1 power amplifier has been designed specifically to meet the ever-increasing demand for high quality surround sound amplification, especially in the demanding corporate A/V market.

Channels 1 through 5 each deliver 100 watts @ 4 ohms, while Channel 6 offers a high current output of 240 watts @ 4 ohms for the most demanding sub-woofer applications.

Channel 6 features its own fully independent power supply to eliminate Low Frequency power modulation of Channels 1 - 5, a common design flaw in lesser surround amplifiers, and ensures that ample high level Low Frequency amplification is always available.

New Reliable Technology Inside

In the ZA 5:1, ARX design engineers have chosen a conventional toroidal transformer based Linear Power Supply and new 'state of the art' Power Amplifier Integrated Circuits, offering unprecedented amplifier and load protection.

This is coupled with our 'Headroom Enhance' circuitry based on our core ISC error correction technology. ISC (Interactive System Control) was developed by ARX for our range of Concert Series Loudspeaker Processors, and is now incorporated into all our Power Amplifiers and the SPL range of Integrated Powered Loudspeakers. It provides maximum power output levels under all AC mains supply voltages and rated load conditions, eliminating Output Stage clipping.

Comprehensive Protection circuitry onboard

Over the years ARX engineers have done intensive research into amplifier protection systems. The ZA 5:1 has a re-settable High Current switched protection circuit that instantly

disconnect the speakers when a potentially damaging signal is detected.

New Input delay muting circuitry eliminates switch on/switch off noise.

Safety First

The outputs are all fully isolated Speakon connectors, in keeping with all current Worldwide approval requirements for amplifier output connections. There are no bare Input or Output terminals, or low cost 'push terminals' used on this Professional product

Version Options

VR:(standard) For installation applications where tamper-proof operation is required, the VR version features rear panel accessible multi turn level controls.

VF:(optional) Where user adjustable level controls are required the VF version features multi-detent front panel mounted level controls

Built to Last

Over 15 years ago, ARX was one of the first companies in the world to bring out a high powered amplifier (the legendary SS700) in only 2 rack spaces! A concept that has been embraced by virtually every amp manufacturer since then. Today, thousands of amplifiers later, we've probably had greater experience in getting more from less than just about anyone else!

Designed from the ground up using extensive computer modelling and a compact, efficient toroidal transformer, the ZA 5:1 has been designed to satisfy the most demanding professional applications. It is a distillation of our experience gained through years of making compact, powerful amplifiers.

Features

- Six discrete amplifier channels
- Dedicated high current Sub Channel
- Toroidal transformer based linear power supply
- Headroom Enhance circuit for maximum output without amplifier clipping
- Balanced jack Inputs
- Insulated Speakon outputs
- Variable speed fan
- LED status display of all amplifier functions
- Flawless performance in any audio environment

Specifications

The ARX ZA 5:1 amplifier is designed around a Toroidal power transformer and heavy duty diode bridges for low induced noise and efficient power to weight ratio.

Input Connectors

Balanced Jack wired: Tip + Hot, Ring – Cold, Sleeve Audio Ground

Output Connectors

Neutrik Speakon, wired as follows:

Connector 1 - Channel 1 (1+, 1-), Channel 2 (2+, 2-)

Connector 2 - Channel 3 (1+, 1-), Channel 4 (2+, 2-)

Connector 3 - Channel 5 (1+, 1-), Sub Ch 6 (2+, 2-)

Input Impedance

40 Kohms Balanced

Input Sensitivity

.775 Vrms (0 dB)

Input CMRR @ 1KHz >70dB

Slew Rate 35V/μS

Distortion 0.01%, 1 watt @ 1 KHz

Damping Factor 200:1

Channel Separation:@ 1KHz -88dB

Frequency response:

@ rated output: 20Hz - 20KHz ±0.4dB

Metering:

LED status indicators for Signal and Protection shut down

Protection Features

- Unique 'Headroom Enhance' circuit provides maximum output levels without clipping
- DC sensing
- 'SilentStart/SilentStop' Input/Output muting at turn on/off

Cooling

Internal heatsink and twinvariable speed DC cooling fans

AC Power

Supplied 'zone-specific' 100/120/220/240V AC with removable power lead

Weight

15 Kg (33 lbs)

Size

Standard 2 rack units high and 19" (482mm) wide

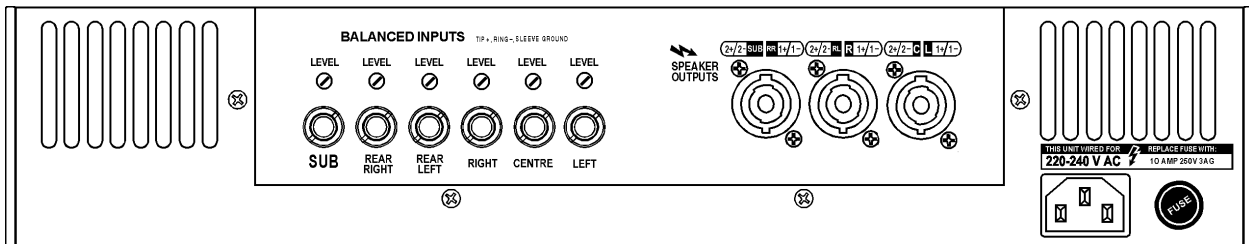
Depth: 16" (400mm)

Add 3" (80mm) to depth behind front panel to allow for rear rack mount ears and connectors.

Add 1" (25mm) to depth before front panel to allow for handles and controls.

Construction

All steel chassis and front panel, with Lexan front print. Front panel power switch and level controls. Rear rack mount ears for four point racking in high stress installations



Rear Panel

- Balanced Jack inputs
- Level controls
- Neutrik Speakon outputs.
- Removable power lead with IEC 3 pin connector
- Fuse drawer

Power Chart *Watts RMS per Channel*

ZA 5:1	8 OHMS	4 OHMS
Ch 1 - 5	75	100
Sub Ch 6	180	250



Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.



Architectural Specifications

The amplifier shall be a 2 rack unit high Six channel unit 16" (405mm) deep.

The amplifier shall be of all steel monocoque construction, with front and rear rack mounting points.

Input connectors shall be Balanced TRS Jacks, wired Tip + Hot, Ring – Cold, Sleeve Audio Ground.

Output connectors shall be Neutrik Speakon, wired as follows: Connector 1/ Channel 1 (1+, 1-), Channel 2 (2+, 2-), Connector 2/ Channel 3 (1+, 1-), Channel 4 (2+, 2-), Connector 3/ Channel 5 (1+, 1-), Sub Channel 6 (2+, 2-)

Input Impedance shall be 40 Kohms Balanced, with a CMRR of >70dB @ 1 KHz.

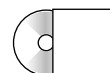
There shall be LED status indicators for Signal present and Protection functions. Protection features shall consist of headroom enhancing soft limit circuitry, 2 x fans, DC sensing, and Input/Output muting at turn on and turn off.

The Output power of Channels 1 - 5 shall be 100 watts RMS into a 4 ohm load.

The Output power of the Sub Channel 6 shall be 250 watts RMS into a 4 ohm load.

The amplifier shall be the ARX ZA5:1.

Specifications available on CD ROM. Latest updates available at: www.arx.com.au



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