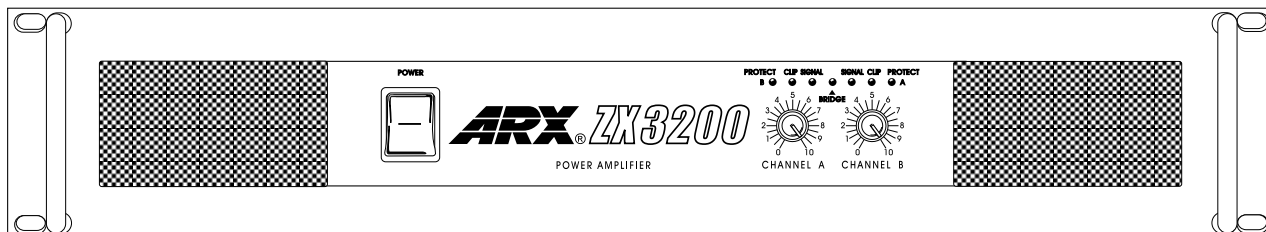


# ZX3200

# ARX

www.arx.com.au®

## DUAL CHANNEL HIGH CURRENT POWER AMPLIFIER



For the ZX 3200 we asked amplifier users, installers and distributors around the world for their input. Their responses have resulted in an amplifier designed from the ground up for the intensive duty cycle that today's standards of production demand. More power, more protection; less heat, less weight, and most of all - better sound.

Computer modelling and the use of compact, efficient toroidal transformers give the ZX 3200 excellent power-to-weight ratios, plus specifications designed to satisfy the most demanding professional applications. It is a distillation of our experience gained through years of making compact, powerful amplifiers.

### New Technology Inside

ARX design engineers have chosen the latest generation Lateral Mosfet devices for the all-important amplifier output stage. These devices provide ultra fast high current-to-load capability, switching many amperes of high frequency current in nanoseconds, up to 100 times faster than amplifiers using conventional Bipolar transistors.

The ZX3200 features a Dual Lateral Mosfet output stage with 20 Mosfets per channel. This is designed to deliver very high current into low impedance loads such as Sub Woofers.

'Headroom Enhance' circuitry based on the core ISC error correction technology developed by ARX for our new range of ISC Loudspeaker Processors. This 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 ZX 3200 has a new re-settable High

Current relay switched protection circuits that instantly disconnect the speakers when a potentially damaging signal is detected.

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

### Proven Heat Exchange technology

Dual variable speed cooling fans circulate cooling air through dual units of ARX's proven 'UltraFin™' heat exchanger, ensuring that the Mosfet output devices are kept well within their thermal tolerance levels under all operating conditions.

### Safety First

In keeping with current safety practices, the outputs are all fully isolated Speakon connectors. For added convenience, there is a separate connector for bridged mono mode.

### Built to Last

Over 12 years ago, ARX was one of the first companies in the world to bring out a high powered amplifier (the SS700) in only 2 rack spaces! Today, thousands of amplifiers later, we've probably had greater experience in getting more from less than just about anyone else!

ARX is dedicated to producing pro audio products that consistently deliver the power and the quality that audio professionals expect.

The ZX 3200 is proof of our commitment - an amplifier that works as hard as you do, day after day, night after night.

## Features

- A Low Impedance amplifier designed for Sub Woofers
- Toroidal transformer based power supply
- Headroom Enhance circuit for maximum output
- Quad variable speed fans
- LED status display of all amp functions
- Balanced XLR Inputs; Speakon outputs
- Twin Super efficient 'Ultra-Fin' heat exchangers
- Extra heavy duty rear mounting ears
- Flawless performance in any audio environment

## Specifications

The ARX ZX 3200 amplifier is designed around an 'over-specified' Toroidal power transformer, heavy duty diode bridge and multi capacitor arrays for high peak current outputs to retain dynamic range under even the heaviest load conditions.

All models can be switched to run in bridged mono mode. The ZX3200 is optimised for low impedance loads

### Input Connectors

1 x Female XLR and 1 x Male XLR loop out

Pin 3 -, Pin 2 +, Pin 1 Audio Ground

**Output Connectors** Neutrik Speakon (1+, 1-)

**Input Impedance** 40 Kohms Balanced

**Input Sensitivity** 1.4 Vrms (0 dB)

**Input CMRR @ 1KHz** >70dB

**Channel Separation @ 1KHz** -88dB

### Frequency response

@ rated output: 20Hz - 20KHz  $\pm$ 0.4dB

### Metering:

LED status indicators for Signal Present, Clip, Bridge, and Dual Channel Protection

### Protection Features

- Relay switched thermal sensing
- Relay switched DC sensing
- 'SilentStart/SilentStop' Input/Output muting at turn on/off
- 'SoftStart' slow power ramp-up at turn on

### Cooling

Dual Ultra Fin heatsinks and variable speed DC cooling fans: 4 fans, air in front and rear, side exit

### AC Power

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

**Weight** 23 Kg (49 lbs)

### Size

All are standard 2 rack units high and 19" (482mm) wide

**Depth 16"** (405mm)

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

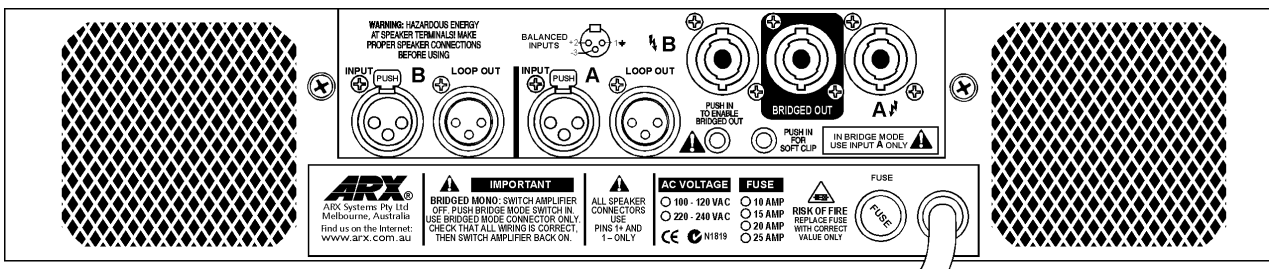
Add >1" (30mm) to depth before front panel to allow for handles and controls.

**Slew Rate** 35V $\mu$ S

**Damping Factor** 200:1

### 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 mobile installations



## Rear Panel

- XLR inputs
- Bridged mono switch
- A, B and Bridged Speakon outputs
- SoftClip switch
- Fixed power lead
- Fuse holder

## How Much Power?

*Please Note:* When comparing amplifier power ratings, remember that these are true RMS power ratings and should not be confused with the unsustainable peak and multiple rail ratings often claimed by other amplifier manufacturers.

## Power Chart *Watts RMS \*Both Channels Driven*

8 OHMS	4 OHMS*	2 OHMS*	BRIDGED 8 OHMS
700	1000	1250	2000 (2500/4)



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 dual channel unit 16" (405mm) deep, and shall be of all steel monocoque construction, with front and rear rack mounting points.

Input and Loop Out connectors shall be Balanced 3 pin XLR type, wired Pin 3-, Pin 2+, and Pin 1 Audio ground. Output connectors shall be Neutrik Speakons.

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

The rear panel shall have a Bridged mono mode switch with separate Bridged output connector, and there shall be an internal insert point for a Plug-in processor module card.

Each channel shall have LED status indicators for Sig-

nal, Clip, Bridge and Protection functions. Protection features shall include switchable headroom enhancing soft limit circuitry, 4 x fans, relay switched DC sensing, Slow Start, and Input/Output muting at turn on and turn off.

The Output power of channels A and B shall be 700 watts RMS into an 8 ohm load, and 1250 watts RMS into a 2 ohm load. The amplifier shall be the ARX ZX3200.

Specifications available on CD ROM. Latest updates available at: [www.arx.com.au](http://www.arx.com.au)



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