



### JDM® 4 Zone All-In-One Desktop Mixing Amplifiers

An economical solution for smaller installations including offices, workshops, smaller shopping arcades, schools etc. Supplied with one front panel mic input and three rear mounted mic inputs which can also be configured as line inputs. Inputs two and three are 3 pin XLR whilst input four consists of either a 3 pin XLR or RCA sockets. Input five is suitable for either a line or phono input. A pre-amp output socket is provided enabling connection to extra slave amplifiers. Four speaker zones may be selected on or off via the front panel switches. Output level is monitored via the LED VU meter. Provision is included to fit one of the following optional modules: **A 4344A** Tuner or **A 4346** CD/MP3 player/Tuner. Operation is from 240V mains with provision for 24V DC battery operation in the event of mains failure. Telephone paging is also available along with a chime and siren tone generator.



Rear panel shown with tuner connections fitted (See A 4344A & A 4346)  
Picture shows A 4320 and A 4322 rear panel. A 4324 rear panel differs.

**SPECIFICATIONS**

A 4320 Power:	60 watts RMS	Telephone input	245mV
A 4322 Power:	120 watts RMS	Bass:	±10dB @ 100Hz
A 4324 Power:	240 watts RMS	Treble:	±10dB @ 10kHz
Distortion:	< 1% @ 1kHz	Power supply:	240V AC or 24V DC
Signal to Noise Ratio	Line: >70dB Mic: >60dB	Dimensions:	≈420W x 320D x 110H mm
Frequency Response	80Hz - 15kHz, ±3dB	A 4320 weight:	10.5kg
Mic input sensitivity:	3mV balanced	A 4322 weight:	12.5kg
Line inputs sensitivity:	300mV	A 4324 weight:	18.7kg

**Features** • 5 inputs • 4 output zones • 70V or 100V output • 4Ω or 8Ω output • 24V DC operation • LED VU meter • 2 year warranty • Telephone paging input • Chime and siren

Price Each	RRP	2+
A 4320 60W	749.00	675.00
A 4322 120W	835.00	755.00
A 4324 240W	1265.00	1140.00

### JDM® Accessories

#### CD/MP3 Tuner Module



A plug-in combination AM/FM tuner and CD/MP3 player module. Suits all JDM® public address amplifiers. Tuner features 30 station presets. 1 year warranty. Includes rear connection panel.

**Features** • Audio CD & MP3 CD playback • Random, repeat functions • Adjustable output level • Track cue function • CD-R, CD-RW compatible

Price Each	RRP	2+
A 4346	699.00	675.00

#### AM/FM Tuner & USB Player Module



A plug-in AM/FM tuner & USB audio player module to suit all JDM® public address amplifiers. Features 18 station presets and adjustable output level. Includes rear connection panel.

**Features** • 18 station presets • AM/FM • Inbuilt level control • Auto seek tuning • LCD readout • Easy plug-in installation for all JDM® amplifiers.

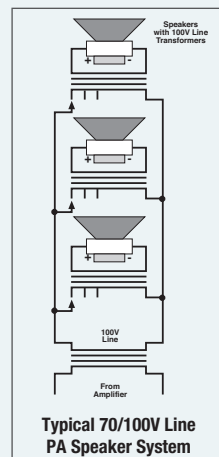
Price Each	RRP	2+
A 4344A	279.00	265.00

### About 70V & 100V Line Speaker Systems

**Wiring speakers in parallel for 70/100V line:** Where several speakers are to be used at one time, on one circuit, it becomes necessary to use speakers fitted with line-matching transformers. This is to overcome the effects of connecting speakers in parallel and cable losses. The amplifier generally has an output voltage of 100 volts (70 volts is typically used in North America, however operation is similar). In this configuration the total wattage load on the amplifier is derived from adding all the line transformer primary tap ratings together. For example, 70 one watt speakers will have a total speaker load of 70 watts. Or alternatively, it is conceivable to connect 100 one watt speakers to a 100 watt, 100 volt line amplifier.

**Measuring 70/100V Line Speaker Impedance:** To measure amplifier system load, you must use an impedance meter in order to measure the AC resistance of the connected speaker network. Impedance cannot be measured with a standard multimeter, as this measures the DC resistance. Use the Altronics Q 2003 or similar impedance meter.

Load	70V	100V
0.5W	9.4kΩ	20kΩ
0.66W	7.12kΩ	15kΩ
1W	4.7kΩ	10kΩ
1.25W	3.76kΩ	8kΩ
2W	2.35kΩ	5kΩ
2.5W	1.88kΩ	4kΩ
3W	1.56kΩ	3.3kΩ
5W	940Ω	2kΩ
7.5W	626Ω	1.3kΩ
10W	470Ω	1kΩ
15W	313Ω	666Ω
20W	235Ω	500Ω
30W	156Ω	333Ω
40W	117Ω	250Ω
60W	78Ω	166Ω
100W	47Ω	100Ω
125W	37Ω	80Ω
250W	19Ω	40Ω
500W	9.4Ω	20Ω



Typical 70/100V Line PA Speaker System