

# FreeSpace® IZA 250-LZ / 190-HZ integrated zone amplifier

**BOSE**



## Product Overview

For background/foreground music and paging applications, the Bose® FreeSpace® IZA 250-LZ and IZA 190-HZ integrated zone amplifiers are designed to deliver premium sound, provide simplified set up and easy daily operation, and offer the flexibility to expand when more loudspeakers are required. When used with FreeSpace DS 16 and DS 40 loudspeakers, even further sound optimization is possible through onboard selectable EQ presets.

## Product Information

The Bose® FreeSpace® IZA 250-LZ / IZA 190-HZ integrated zone amplifier provides signal processing, routing, paging and amplification for a wide range of commercial applications such as retail stores, restaurants and bars, hospitality venues, conference rooms, schools and auxiliary zones. The integrated zone amplifier offers a variety of easy-to-use input connections (mic/line/page), input gain and output level adjustments, and operational modes. Selectable Bose FreeSpace DS 16 and DS 40 loudspeaker EQ presets are available for loudspeaker optimization.

## Applications

Designed for a wide range of applications, including:

- Retail stores
- Restaurants and bars
- Hospitality venues
- Conference centers
- Schools
- Auxiliary zones

## Key Features

- **Amplification for premium sound** from a reliable, high quality Class-D amplifier provides optimized performance and premium sound quality through the use of internal digital signal processing
- **Installation made simple** with set up done locally from the front and rear panels of the amplifier—no computer is required
- **Opti-voice® paging** provides smooth automatic transition between the music and page signals
- **End-user friendly** front panel allows users to connect devices easily, make tonal adjustments or select between two sources. Optional wall mountable Bose Volume control with A/B switch user interface allows volume and source selection controls to be placed away from the amplifier for user convenience
- **Compact, lightweight design** enables the FreeSpace integrated zone amplifier to be placed out of the way—on a table, desk, counter, shelf or in an equipment rack using the optional Rack Mount Kit accessory
- **Easy connectivity and expansion** are possible for applications where a second set of output channels are required. An auxiliary line output is provided to share signals with an optional FreeSpace ZA 250-LZ or ZA 190-HZ

# FreeSpace® IZA 250-LZ / 190-HZ integrated zone amplifier



## Technical Specifications

Power Rating				
	FreeSpace® IZA 250-LZ integrated zone amplifier		FreeSpace® IZA 190-HZ integrated zone amplifier	
Amplifier Power	2 x 50 W @ 4 Ω, 2 x 25 W @ 8 Ω		1 x 90 W @ 70/100 V	
Audio Performance Specifications				
	FreeSpace® IZA 250-LZ integrated zone amplifier		FreeSpace® IZA 190-HZ integrated zone amplifier	
Frequency Response	40 Hz - 20 kHz (+0/-3 dB, @ 1 W reference 1 kHz)		60 Hz - 20 kHz (+0/-3 dB, @ 1 W reference 1 kHz)	
THD+N	≤0.3 % (at full rated power)		≤1 % (at full rated power)	
Channel Separation (Crosstalk)	≤-60 dBV (below rated power, 1 kHz)		≤-60 dBV (below rated power, 1 kHz)	
Dynamic Range	88 dB		88 dB	
Integrated DSP				
A/D and D/A Converters	24-bit / 48 kHz			
Processing Functions	Loudspeaker EQ, Bose® Opti-voice® paging, Dynamic equalization			
Loudspeaker Presets	FreeSpace DS 16 and DS 40 loudspeakers, High-Pass Filter (HPF)			
Audio Latency	10.4 ms - (any input to speaker output or aux output)			
Audio Inputs				
	Line Inputs	Mic/Line Inputs	Page Inputs	Auxiliary Input
Input Channels	2 Unbalanced line	1 Balanced mic/line	1 Balanced mic	1 Unbalanced line
Connectors, Input	Stereo RCA	Combo XLR - 1/4" (6.5mm) TRS	4-pin Euroblock	1/8" (3.5mm) TRS
Input Range	-10 dBV - +10 dBV	-60 dBV - +10 dBV	-60 dBV - +10 dBV	0 dBV - +10 dBV
Adjustment Range	-20 dB - +20 dB	0 dB - +50 dB	0 dB - +50 dB	Fixed
Input Impedance	20 kΩ	2 kΩ	2 kΩ	20 kΩ
Maximum Input Level	+10 dBV	+10 dBV	+10 dBV	+10 dBV
Sensitivity	n/a	n/a	n/a	0 dBV
Nominal Input Level	0 dBV	-40 dBV	-40 dBV	0 dBV
Audio Outputs				
	Amplifier Outputs		Auxiliary Output	
	FreeSpace® IZA 250-LZ integrated zone amplifier	FreeSpace® IZA 190-HZ integrated zone amplifier	FreeSpace® IZA 250-LZ integrated zone amplifier	FreeSpace® IZA 190-HZ integrated zone amplifier
Outputs	2	1	1 Unbalanced	1 Unbalanced
Connectors, Output	2-terminal barrier strip	3-pin inverted Euroblock	Stereo RCA	Stereo RCA
Output Impedance	4 Ω	n/a	400 Ω	400 Ω
Nominal Output Level	2 x 50 W @ 4Ω (min); 2 x 25 W @ 8Ω	1 x 90 W @ 70/100 V	0 dBV (max)	0 dBV (max)
Indicators and Controls				
LED Status Indicators	Power - blue, Input clip - red (-3 dBFS)			
Controls, Front Panel	Power On/Off, Input Select (A/B), Tone Controls (Treble/Bass), Mic/Line Gain, Master Level			
Controls, Rear Panel	Amplifier Mode DIP switch, Loudspeaker EQ preset selector, Input Gain (A/B/Page mic), Output trim			
Electrical Specifications				
Mains Voltage	100 V AC - 240 V AC (+/- 10%, 50/60 Hz)			
AC Power Consumption	15 W (Idle), 200 W (Max)			
Mains Connector	Standard IEC (C14)			
Maximum Inrush Current	13.9 Amps (230 V / 50 Hz), 7.6 Amps (120 V / 60 Hz)			
Overload Protection	High temperature, short			
Physical				
Rack Space Units	1 RU high, half rack wide			
Dimensions	1.8" H x 8.4" W x 12.2" D (45 mm x 214 mm x 310 mm)			
	FreeSpace® IZA 250-LZ integrated zone amplifier		FreeSpace® IZA 190-HZ integrated zone amplifier	
Shipping Weight	6.7 lb (3.0 kg)		9.0 lb (4.1 kg)	
Net Weight	4.8 lb (2.2 kg)		7.0 lb (3.2 kg)	
Cooling System	Natural convection			
General				
Inputs (Control)	Remote input for Volume Control with A/B Select user interface, Mute input for amplifier muting via contact closure			