## FreeSpace IZA 2120-LZ Integrated Zone Amplifier





#### **Product Description**

For background/foreground music and paging applications, Bose Professional FreeSpace IZA 2120-LZ integrated zone amplifier elevates the audio experience when using FreeSpace loudspeakers. Optimized for commercial applications, FreeSpace IZA amplifiers feature selectable Loudspeaker EQ to enrich audio quality, Opti-Voice paging for clear speech intelligibility while providing seamless transitions and Dynamic EQ that ensures full and balanced music at any volume level.

#### **Applications**

Designed for a wide range of applications, including: Retail stores Restaurants and bars Hospitality venues Conference centers Schools Auxiliary zones

#### **Key Features**

Opti-Voice paging equalizes the vocal frequency range for clear speech intelligibility while providing seamless transitions.

Dynamic EQ ensures full and balanced music at any volume level.

Loudspeaker EQ enriches audio quality and simplifies connection to Bose Professional loudspeakers: FreeSpace FS2C/SE/P, FS4CE/SE and DesignMax DM2C-LP/S, DM3C/SE.

Remote option for volume/source selection eliminates the need for bulky, inefficient, and sound-altering in-line volume controls.

Reliable 2 x 120 W Class-D amplification optimized for low-impedance applications.

**Intuitive feature setup** enables the amplifier to be configured without a PC for output, remote, paging, auxiliary input/output and automatic standby options.

Auto-Standby feature allows the amplifier to consume less power when not in use.

**Simplified front panel interface** provides end users with tone, source selection and master volume controls as well as a connection to mobile sources via a 3.5 mm connector.

Remote muting allows the amplifier to be muted via a centralized control system.

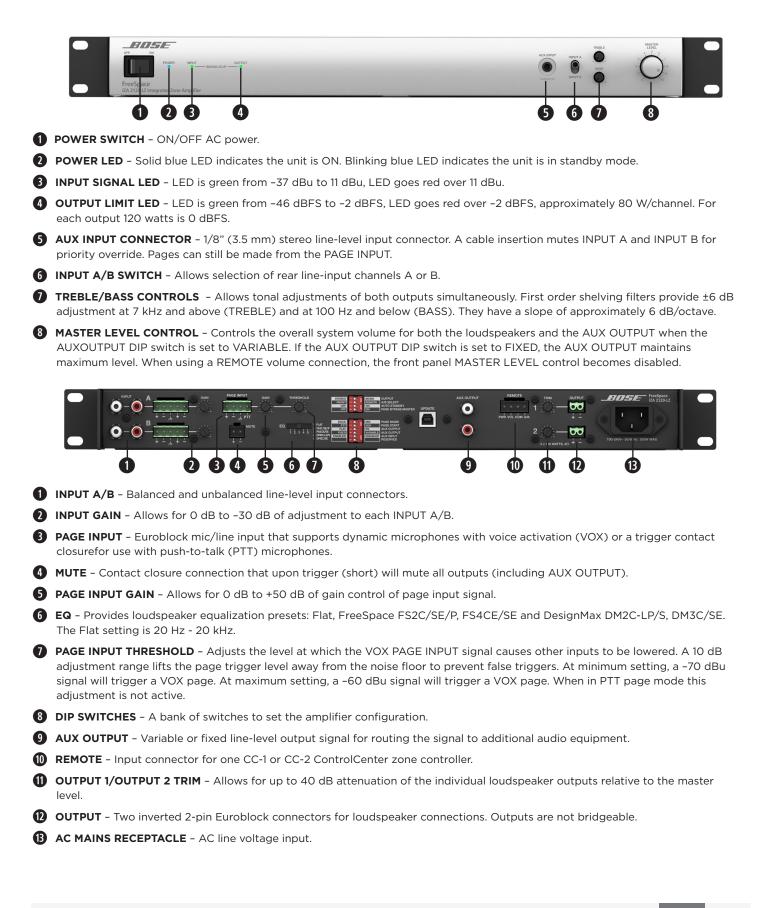
# FreeSpace IZA 2120-LZ Integrated Zone Amplifier

#### **Technical Specifications**

POWER RATING							
Amplifier Power	2 x 120 W @ 4 Ω, 2 x 60 W @ 8 Ω						
AUDIO PERFORMANCE							
Frequency Response	20 Hz - 20 kHz (+0/-3 dB, @ 1 W refer	20 Hz - 20 kHz (+0/-3 dB, @ 1 W reference 1 kHz)					
THD+N	$\leq$ 0.5 % (at rated power)						
Channel Separation (Crosstalk)	≤ -58 dBu (below rated power, 1 kHz)						
Dynamic Range	88 dB						
INTEGRATED DSP							
A/D and D/A Converters	24-bit / 48 kHz						
Processing Functions	Loudspeaker EQ, Bose Professional O	oti-Voice paging, Dynamic equalizatio	on				
Loudspeaker Presets	Flat, FreeSpace FS2C/SE/P, FS4CE/SE	Flat, FreeSpace FS2C/SE/P, FS4CE/SE and DesignMax DM2C-LP/S, DM3C/SE					
Audio Latency	10.4 ms (any input to speaker output o	or aux output)					
AUDIO INPUTS	LINE INPUTS	PAGE INPUTS	AUXILIARY INPUTS				
Input Channels	2 unbalanced, 2 balanced	1 balanced mic/line	1 unbalanced line				
Connectors	Stereo RCA, 5-pin Euroblock	4-pin Euroblock	1/8" (3.5mm) TRS				
Input Range	-8 dBu to +22 dBu	-58 dBu to 12 dBu	-60 dBu to -1 dBu				
Adjustment Range	0 dB to -30 dB	0 dB to +50 dB	Fixed				
Input Impedance	20 kΩ	2 kΩ	20 kΩ				
Maximum Input Level	22 dBu	12 dBu	-1 dBu				
Sensitivity	-8 dBu	n/a	-3 dBu				
Nominal Input Level	4 dBu	-38 dBu	-8 dBu				
AUDIO OUTPUTS	AMPLIFIER OUTPUTS						
Outputs	2	1 unbalanced Input Channels					
Connectors	2-pin inverted Euroblock	Stereo RCA Input Channels					
Output Impedance	4 Ω	150 Ω Input Channels					
Nominal Output Level	2 x 120 W @ 4 Ω, 2 x 60 W @ 8 Ω	2 dBu Input Channels					
INDICATORS AND CONTROLS							
Power LED	Solid blue indicates power is on, blinki	ng blue indicates standby mode					
Input Signal Clip LED	Green indicates input signal is within -37 dBu to 11 dBu, red indicates signal is over 11 dBu						
Output Signal Clip LED	Green indicates output signal is within -46 dBFS to -2 dBFS, red indicates signal is over -2 dBFS, approximately 80 W/ channel, for each output 120 watts is 0 dBFS						
Controls, Front Panel	Power On/Off, Input Select (A/B), Trek	ole/Bass Tone Controls (x2), Master L	evel				
Controls, Rear Panel	Amplifier Mode DIP switches, Loudspea	aker EQ preset selector, Input Gain (A,	/B/Page), Output trims, Remote				
ELECTRICAL							
Mains Voltage	100 VAC - 240 VAC (±10%, 50/60 Hz)						
AC Power Consumption	24 W (Standby)						
Mains Connector	Standard IEC (C14)	1					
Maximum Inrush Current	12.6 Amps (230 VAC / 50 Hz), 6.6 Amps (120 VAC / 60 Hz)						
Overload Protection	High temperature, output short, excessively low or high AC line voltage						
PHYSICAL							
Dimensions (H x W x D)	1.7" H x 19.0" W x 12.8" D (44 mm x 48	3 mm x 324 mm)					
Shipping Weight	12.0 lb (5.4 kg)						
Net Weight	9.0 lb (4.1 kg)						
Cooling System	Single fan, continuous left-to-right air flow						
GENERAL							
Inputs (Control)	Remote input for one CC-1 or CC-2 ControlCenter zone controller. Mute input control via contact closure (normally open).						

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Integrated Zone Amplifier



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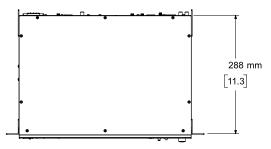
Integrated Zone Amplifier

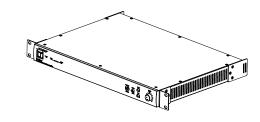
#### AC Current Draw and Thermal Dissipation Information

Amplifier rated channel power is 120 W.

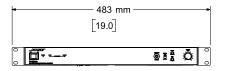
IZA 2120-LZ, AC Current Draw and Thermal Dissipation								
Test Signal & Power Level	Load Configuration (Both IZA channels driven)	Total Audio Output, W	120 VAC 60 Hz Line Current, A		Thermal Dissipation, Max			
					Watts	BTU/hr	kCal/hr	
Power On, Idling		0	0.15	0.12	27	92	23	
1/8th Rated Power IEC268 Bandlimited Pink Noise	8Ω / Ch	15	0.30	0.18	26	90	23	
6 dB Crest Factor FS2C/SE/P EQ Enabled	4Ω / Ch	30	0.51	0.30	39	133	34	
1/3rd Rated Power IEC268 Bandlimited Pink Noise	8Ω / Ch	40	0.63	0.33	36	122	31	
6 dB Crest Factor FS2C/SE/P EQ Enabled	4Ω / Ch	80	1.15	0.58	58	198	50	

#### **Mechanical Diagrams**

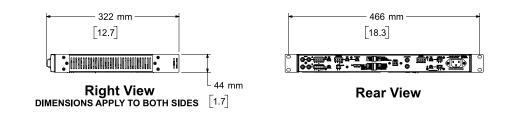




**Top View** 



**Front View** 



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#### Safety and Regulatory Compliance

The FreeSpace IZA 2120-LZ integrated zone amplifier complies with CE requirements, are cUL listed according to UL/CSA 60065 and UL/CSA 62368-1; CB certified, according to IEC60065 (8th edition) and IEC62368-1 (2nd Edition), including all group and national differences. These models also comply with FCC Part 15B Class A, EN55103-1 (1997), EN55103-2 (1996), and CISPR13 (2003) requirements.

#### **Product Codes**

Product Code Voltage Variant					
719782-1440					
719782-2440					
719782-3440					
719782-4440					
719782-5440					

#### Accessories

JP-Black

JP-White

#### **ControlCenter CC-1 zone controller**

US-Black	768932-0110					
US-White	768932-0210					
EU-Black	768932-2110					
EU-White	768932-2210					
JP-Black	768932-3110					
JP-White	768932-3210					
ControlCenter CC-2 zone controller						
US-Black	768938-0110					
US-White	768938-0210					
EU-Black	768938-2110					
EU-White	768938-2210					

768938-3110

768938-3210

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