

Announcing the new standard



for performance, flexibility and ease of use.

Soundzone
Business Music Controllers





Soundzone Controllers...

An Important Component Of JBL Soundzone Business Music Systems.

The Z32S and Z21S Controllers and JBL Professional's Control Contractor loudspeakers form the heart of JBL Soundzone Business Music Systems, providing an entirely new level of performance, flexibility and ease of use.

Soundzone Business Music Systems raise the bar for what a business music system should be.

Better Sound Means Better Business.

Business patrons are becoming accustomed to hearing great music quality in their homes, in their cars and in movie theaters. They now expect the same high quality sound in business environments. Businesses have discovered the value of music quality to their bottom line.

Soundzone Business Music Systems make it easier than ever to get premium performance in business environments, while at the same time being very easy for end-users to operate.



Installed Sound Never Had It So Good - Feature Enhancements Never Before

AutoWarmth ensures just the right amount of music warmth despite changes in operating volumes. Volume adjustments may be required in response to varying number of customers, activities, music styles, music sources or time of day. Often, the music can become too thin at lower volumes and too boomy at higher volumes. AutoWarmth will automatically adjust tonal balance, maintaining full music fidelity at all volumes - the perfect solution for business applications.

AutoWarmth™

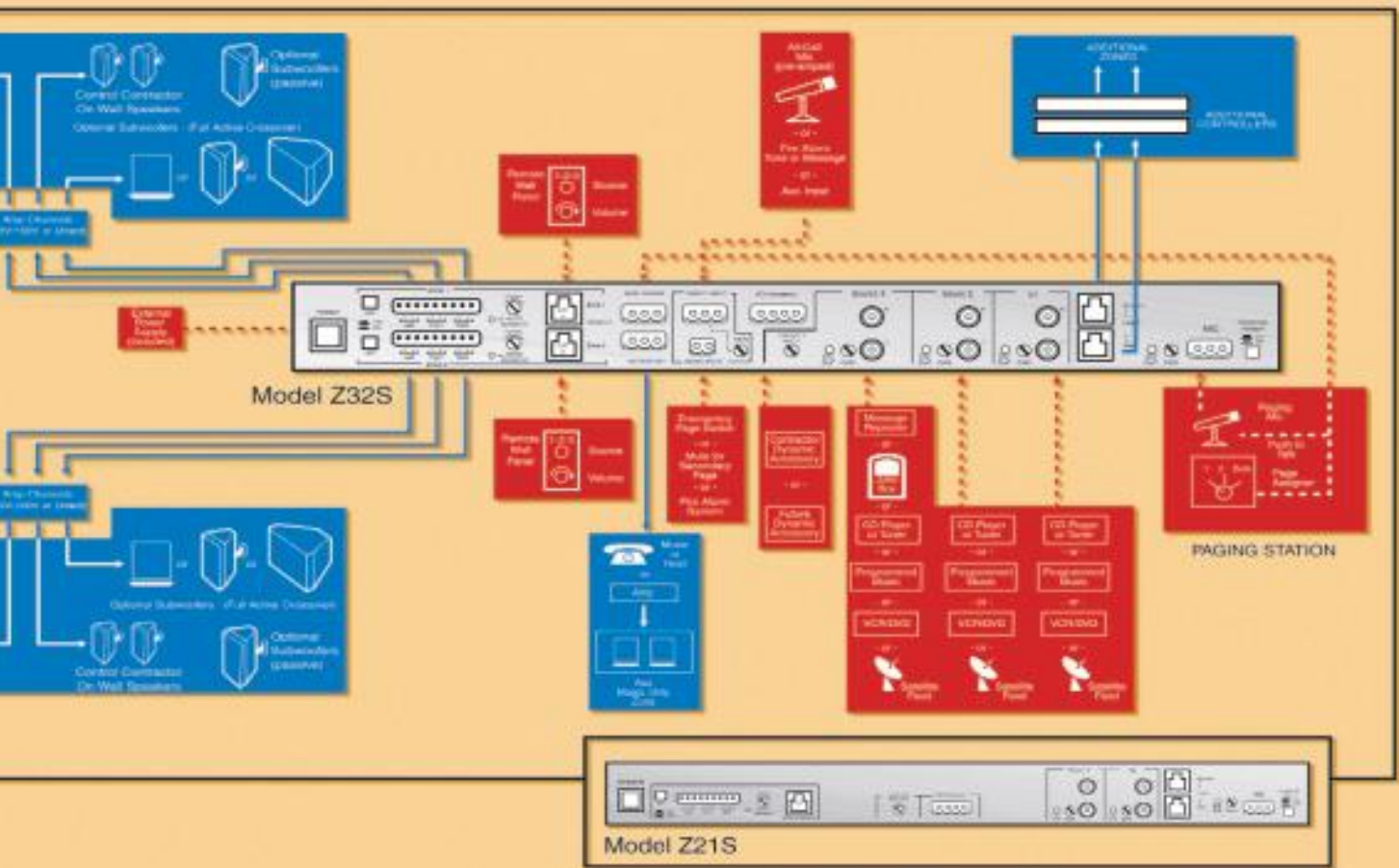
1

Common music sources can get too loud or too soft for business applications. Too loud and it becomes oppressive to the customers; too soft and it becomes inaudible. LevelGuard helps keep the music level in check, automatically selecting the correct amount of sonic compression for the best sound quality. While this function requires no user involvement, it helps keep the music volume optimum during excessive level changes from the sources.

LevelGuard™

2

ng Businesses With the Power of Quality Sound.



Or So Easy. The New JBL Soundzone Controllers
Are Available In Any Comparable Product.

Active subwoofer crossovers provide the ultimate in sound quality. With today's increased demand for wider bandwidth sound in business applications, the inclusion of built-in subwoofer crossovers on the zone outputs makes it easier to include a subwoofer in the sound system or to more easily add a subwoofer at a later date. Stereo-capable zones can add spaciousness to business environments. (Note: Zones can also be used in mono.)

Output Zone
Capabilities

3

Soundzone controls are intuitive; the user simply selects the music source and volume for each zone. What's more, many functions are automatic, so no involvement or special training is required by the end-user. For the installer, Soundzone is easy to set up. Back panel LEDs guide in setting key functions. There is no need to open the product and the set-up controls are protected from tampering.

Ease of Use
& Installation

4

Soundzone Controllers Have More of The Features You Need Than Any Other Product In Their Class.

AutoWarmth ensures full fidelity at all volume levels, automatically. An LED helps guide the installer in setting properly.



Mic EQ allows tonal adjustment for pages, so they sound clear and intelligible. **Ducking** lowers music during a page and then smoothly ramps music back after the page ends. Sensitivity and depth adjustments allow tailoring to the requirements of the application.



Output Zones can operate in either stereo or mono. The built-in active **Subwoofer Crossover** and dedicated output makes it easy to add subwoofers for fuller fidelity sound. The **High-Pass Filter (HPF)** eliminates low frequencies from the main speakers for use with subs, or for preventing saturation distortion when driving inexpensive 70V/100V speaker transformers.



Priority Hold* adjusts the time it takes to switch back to the normal input source after the priority source stops. Different types of priority sources (message repeaters, juke boxes, etc) work best at different Priority Hold settings.



LevelGuard keeps the music level in check, automatically selecting the correct amount of compression for the best sound quality.



Page Assign* routes pages to the desired zone, or if always the same can be permanently hardwired on the connector. An **Aux Output*** is provided, featuring transformer isolation and level control for music-on-hold systems or as an additional music-only mono output zone.



Ease of Use. The user simply selects the music source, its volume and the mic paging volume. Sophisticated functions such as AutoWarmth and LevelGuard operate automatically without requiring any technical knowledge on the part of end-users.



Input Trim Controls on the Source inputs allow leveling out of the relative source volumes so they are similar when the end-user switches between them. **Indicator LEDs** help the installer set each control within the optimum performance range window.



An assortment of optional wall plates provide remote source selection and/or volume adjustments from within a zone location. **Remote Connections** are made via inexpensive Category 5 cable.

Set-Up Controls are protected from tampering behind a plexi-glass panel.

Link Jacks allow multiple controllers to be linked for more output zones. Links eliminate the need for Y-cables on the sources and allow multiple units to share music mute and direct input functions.

Zone Set-Up Controls. Each zone has its own bass and treble tone controls, mono/stereo selector as well as LevelGuard trim control. Priority on/off* can be individually set for each zone. **Mic Minimum** prevents end-users from accidentally turning the page totally down in that zone.

Direct Input* sends a signal directly to the zones for all-call purposes. Contact closure of the **Music Mute*** pins mutes all Source inputs.

All Euroblock plugs included (not shown).

*on Z32S only.

Soundzone Accessories



ZR-3SV
3 Sources
1 Volume



ZR-2SV
2 Sources
1 Volume



ZR-V
1 Volume

Soundzone Is The Latest Proof of JBL's Half Century Commitment To Technical Excellence.

Soundzone

no other business music controller
offers more flexibility
and ease of use.

- **Convenient expansion possibilities** - multiple controllers can be linked for sharing of sources or main busses for additional zones.
- **Music Mute terminals and Direct Input** allows for advanced all-call and override functions.
- **A variety of remote wall plates** are available for remote source selection and/or volume adjustment from within a zone. Connection is simple via commonly available Category 5 cable.
- **A separate mono auxiliary output** is transformer isolated so it can drive a music-on-hold system or it can be used as a separate mono output zone. This Iso Aux Output can drive long distances when necessary. For additional flexibility, the output level is adjustable with an output level control.
- **A variable Priority Hold control** lets the installer set the priority to be just right for the type of priority material that is being used. For example, a digital message repeater might only require a short hold time whereas a jukebox might be better with a longer priority hold setting to allow for quiet passages and song transitions.
- **A High-Pass Filter** can be engaged on any zone to prevent nasty saturation distortion in systems using commodity-grade non-JBL transformed speakers, or for decreasing boominess in highly reverberant spaces.
- **Pages can be assigned between Output Zones** using a simple remote selector switch or can be hardwire configured to be the same every time.
- **Adjustable Ducking** - The degree that music ducks down during a page - shallow or deep - can be adjusted to meet the requirements of the application.
- **A VCA Accessory port** provides for future growth of sophisticated functions.

CONFIGURATION

	Z32S	Z21S
Input Sources	3 (stereo or mono)	2 (stereo or mono)
Output Zones	2 (stereo or mono) + Aux Out	1 (stereo or mono)
AutoWarmth	Yes - with indicator LED to help with setting	
LevelGuard	Yes	
INPUTS:		
Mic input with Page Ducking	Yes - with gain trim and input level LED	
Mic EQ	Bass & Treble	
Source Inputs	All have gain trim and input level LED	
Source 3 w/ Priority Override	Yes	No
ZONE OUTPUTS:		
Subwoofer Outputs	Yes	
HPF (high-pass filter) on main outs	Yes - switchable	
Full Active Subwoofer Crossover	Yes - Traditional crossover with HPF switch engaged or overlap crossover with HPF switched out	
Zone EQ	Bass & Treble	
Isolated Aux Out	Yes - (follows Zone 1, internally switchable to Source 1 only)	No
Remote wall plates for Zones	ZR-3SV for 3 source & volume (attenuate), ZR-V for volume only	ZR-2SV for 2 source & volume (attenuate), ZR-V for volume only
FEATURES:		
Minimum Mic Level Control	Yes	
Music Mute Terminals	Yes	No terminals. Receives music mute via Main Link from other controllers
Direct Input	Yes	No terminals. Includes level control for receiving direct input via Main Link from other controllers
Priority Source Inputs	Yes - with variable Priority Hold control	No
VCA Accessory Port	Yes	
Page Assign	Yes	No
Source linking	Yes - Sources 1, 2 & 3	Yes - Sources 1 & 2
Main linking	Yes - paging mic, music mute & direct input	Yes - paging mic. Receives music mute & direct input from other controllers
All set-up controls on outside	Yes	
Simplicity of End-User Controls	Yes - User only needs to select Source and set Source Level and Mic Level	

TECHNICAL SPECIFICATIONS

All connectors where not otherwise noted are Euroblocks which accept bare wire. All Euroblock connector plugs are included.

Line Input

Type: Unbalanced, RCA connector x 2, per source
 Nominal Sensitivity: -10 dBV
 Input Impedance: 20 kΩ
 Headroom: > 25 dB (-10 dBV nominal)
 Noise: <0.06%, 20 Hz - 20 kHz (0 gain)
 Frequency Response: 30 Hz - 20 kHz ± 1 dB
 Equalization: Bass ± 8 dB @ 50 Hz
 Treble ± 8 dB @ 10 kHz

Mic Input

Type: Balanced, Euroblock connector for bare wire
 Input Impedance: 2 kΩ
 Sensitivity: -60 dBV to -20 dBu
 Noise: -118 dBu EIN 150Ω source impedance, 22 kHz bandwidth Band limited to 250 Hz - 8 kHz ± 1 dB
 Frequency Response: > 40 dB, typically > 55 dB
 Common Mode Rejection: Bass ± 8 dB @ 200 Hz
 Equalization: Treble ± 8 dB @ 8 kHz

Zone Outputs

Type: Balanced, Euroblock connector for bare wire
 Nominal Output: +4 dBu (1.2 V)
 Maximum Output: +18 dBu (6.2 V)
 Subwoofer Output: Low-passed 100 Hz, 24 dB/oct Linkwitz-Riley
 HPF: High-pass, 100 Hz, 24 dB/oct Linkwitz-Riley

Miscellaneous

Direct Input: -2 dBu (0.62 V) nominal sensitivity
 10 kΩ nominal input impedance
 Priority Hold: Adjustable from approx 3 seconds to approx 20 seconds.
 Iso Aux Out: Isolated via 600 ohm balanced isolation transformer.
 Output level adjustable to +13 dBu (3.5 V) max.
 Remote Wall Plates: Connection via Category 5 UTP, Category 5 connectors both ends, no audio runs through wires. RJ45 connector.

Mute Terminals:

Shorting the pins mutes all Source inputs, does not mute Mic input.
 VCA Port: 0 V for no attenuation, +5 V for full attenuation
 Page Assign: Shorting zone pin to ground (provided) assigns page to that zone.
 Source Linking: Category 5 cable, RJ45 connector. With more than 2 units, Category 5 Y-cable required. Recommended max of 4 units for direct linking. More with outboard DA. Recommended max link cable length 6 ft (2.4M).

General

Power Consumption: 20 W
 Power Requirements: 115V ±10% or 230V ±10%
 Thermal fuse in external transformer
 Dimensions (W x H x D): 19.0" x 1.8" (no feet) x 7.0" (including knobs and connectors), 6.3" deep behind rail.
 (482 mm x 46 mm x 178 mm, 160 mm behind rail)
 Weight: 5 lb (2.2 kg)



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Part # CAT SNDZN
 4/00 20M