

## Sophisticated digital processing made accessible through a simple analog-style control interface

The CS Series CSM Public Address Mixers do not require a computer for configuration and make sophisticated digital processing available through simple controls on the devices themselves.

### EQUALIZATION

Bass and Treble controls are available for the paging microphone and each Zone Output. These controls allow the sound of the microphone to be tailored independently from the sound in each of the zones. This helps ensure crystal clear intelligibility of paging announcements, without impacting the fidelity of the music in the output zones.

### AUTOWARMTH™

AutoWarmth helps maintain musical warmth at all operating levels by automatically adjusting the tonal balance within a zone based upon the zone output level. This helps prevent music from sounding thin at lower levels or excessively resonant at higher levels.

### LEVELGUARD™

LevelGuard helps maintain optimum levels through the system by automatically applying the correct amount of compression to the source signals based upon the incoming level. Even with source material of different levels, customers experience consistency from the system.

### SOURCE PRIORITY

There are cases where it is desirable for particular sources to have priority over other sources. Examples of such sources are jukeboxes, message repeaters or live DJ. After some simple configuration on the CSM, the sources will play into the zones as specified until a signal is present on the priority source. The CSM device will automatically fade over to the priority source until a signal is no longer present on the priority source.

This means that, for an application with a background music source and a jukebox, no switching from the background music source is required as customers put money in the jukebox. The CSM device automatically fades over to the jukebox immediately as the song starts to play. After the jukebox playlist has finished, the CSM device automatically fades back over to the background music source.

### SECURITY PANEL

Once everything is set up exactly the way you like it, the included security plate can be placed over the controls in the center of the CSM device to avoid uninvited changes. This means that the system will consistently deliver the same high performance as the day it was commissioned.



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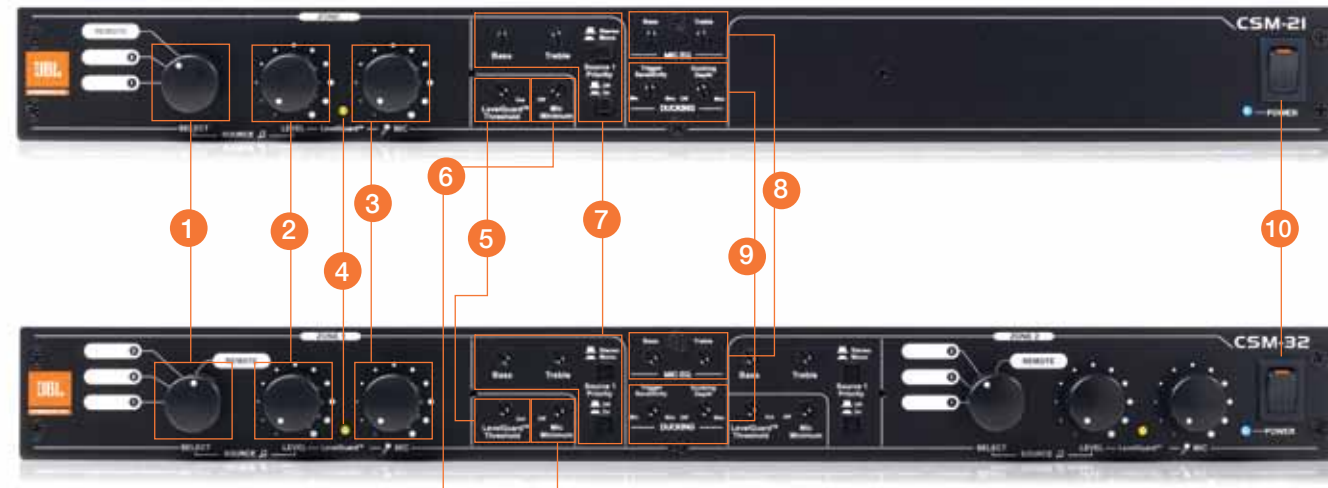
# CSM-32 & CSM-21

CS SERIES PUBLIC ADDRESS MIXERS



# Enhance your business music system and transform your customer's experience...

## CSM-21 FRONT



## CSM-32 FRONT



### 1) SOURCE SELECT CONTROL

Allows selection among sources within a zone or assignment of source selection to a remote wall controller with source selection capability

### 2) VOLUME LEVEL CONTROL

Allows control of volume level within a zone or volume level limiting, when used in conjunction with a remote wall controller with volume level capability

### 3) MIC LEVEL CONTROL

Allows control of microphone level within a zone

### 4) LEVELGUARD™ LED

Indicates the application of LevelGuard™ on a source

### 5) LEVELGUARD™ THRESHOLD CONTROL

Allows adjustment of how much LevelGuard™ is applied to sources

### 6) MIC MINIMUM

Allows a minimum microphone level to be configured within a zone to avoid paging messages being turned down completely

### 7) ZONE CONTROLS

**BASS** and **TREBLE** controls allow adjustment of tonal balance to meet the requirements of a physical space

### STEREO/MONO switch

allows zone to be run in stereo or mono

**SOURCE 1 PRIORITY** switch enables/disables the priority of Source 1

### 8) MIC CONTROLS

**BASS** and **TREBLE** controls allow adjustment of microphone tonal balance

### 9) DUCKING CONTROLS

**TRIGGER SENSITIVITY** control allows adjustment of when music level is reduced during paging

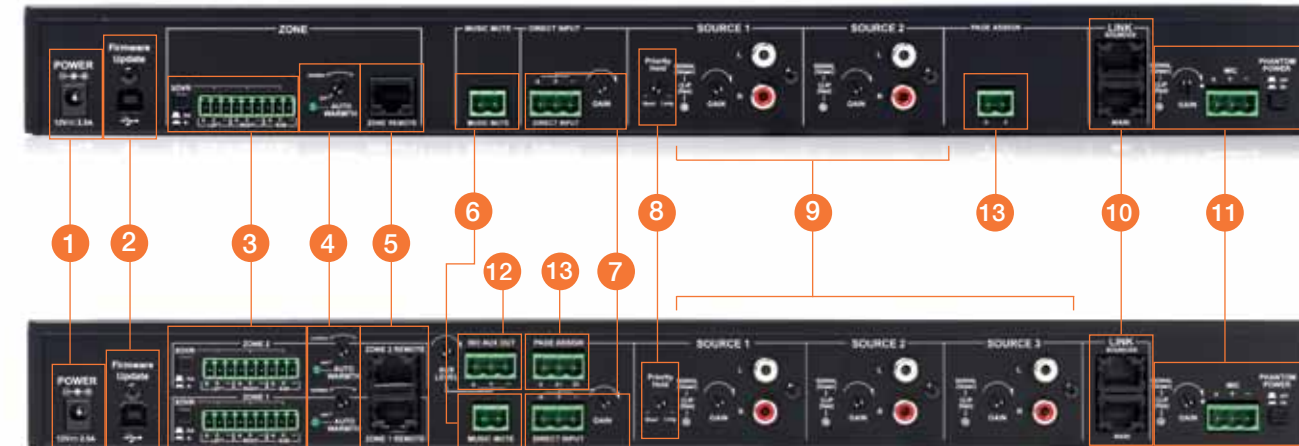
### DUCKING DEPTH control

allows adjustment of how much music level is reduced during paging

### 10) POWER SWITCH

Allows CSM device to be turned on and off from the front panel

## CSM-21 REAR



## CSM-32 REAR



### 1) POWER CONNECTOR

For use with included CSM power supply

### 2) FIRMWARE UPDATE PORT

USB port for firmware updates

### 3) ZONE OUTPUTS

Stereo or mono operation

Connect to CS Series CSA Amplifiers and CSS Speakers

Active crossover for subwoofer with dedicated output

### 4) AUTOWARMTH™ CONTROLS

Ensures full fidelity at all volume levels

LED provides guidance for setup

### 5) ZONE REMOTE PORTS

Allow connection of remote wall plates via inexpensive Cat. 5 cable for source selection and/or volume control within zones

### 6) MUSIC MUTE

Allows source inputs to be muted by a contact closure

### 7) DIRECT INPUT

An input routed to all zones for 'all-call' purposes

**GAIN** control allows adjustment for **DIRECT INPUT**

### 8) PRIORITY HOLD

Adjusts the time taken to fade back to the normal input source after the priority source stops

### 9) INPUT SECTION

Left and Right RCA inputs

**GAIN** control allows adjustment of source levels for consistency among sources

**SIGNAL / CLIP LED** provides guidance for **GAIN** control adjustment and general monitoring

### 10) LINK PORTS

Allow multiple CSM devices to be linked to increase the number of output zones. Linking CSM devices shares sources from the main device and eliminates the requirement for Y-cables

### 11) MICROPHONE INPUT SECTION

Balanced microphone input

**GAIN** control allows adjustment of microphone level

**SIGNAL / CLIP LED** provides guidance for **GAIN** control adjustment and general monitoring

### 12) ISO AUX OUT

Transformer-isolated output for music-on-hold systems or additional music-only mono output

**AUX LEVEL** control allows adjustment of transformer-isolated output

### 13) PAGE ASSIGN

Routes pages to the desired zone(s) by contact closures

## JBL Commercial CS Series Public Address Mixers

The CS Series CSM Public Address Mixers represent affordable, professional business music processing solutions for simple background music and paging applications. The mixers can be configured for a range of uses such as paging, background music, and security applications, do not require a computer for configuration and are designed with simple analog-style controls. An included security plate can be placed over the controls to avoid uninvited changes to a commissioned system. Three wall controllers are available for the CSM devices, which offer volume control and source selection from convenient remote locations. Further information about the CS Series family of products, including the CSA Amplifiers and the CSS Speakers, can be found at [www.jblcommercialproducts.com](http://www.jblcommercialproducts.com)

	STEREO SOURCE INPUTS	PAGING MICROPHONE INPUT	DIRECT INPUT	STEREO ZONE OUTPUTS	DEDICATED SUBWOOFER OUTPUT	MUSIC-ON-HOLD OUTPUT	STEREO / MONO OPERATION	MUSIC MUTE	PAGE ASSIGN
CSM-21	2	✓	✓	1	✓		✓	✓	✓
CSM-32	3	✓	✓	2	✓	✓	✓	✓	✓

## ACCESSORIES

UNITED STATES



**CSR-V**

- Available in US or EU Form Factor
- Available in Black or White Color
- Volume Control
- RJ-45 / Cat. 5 Connection
- Up to 1000' (305m) from CSM device



**CSR-2SV**

- Available in US or EU Form Factor
- Available in Black or White Color
- Volume Control
- Source Selection (2 Sources)
- RJ-45 / Cat. 5 Connection
- Up to 1000' (305m) from CSM device



**CSR-3SV**

- Available in US or EU Form Factor
- Available in Black or White Color
- Volume Control
- Source Selection (3 Sources)
- RJ-45 / Cat. 5 Connection
- Up to 1000' (305m) from CSM device

EUROPEAN



### CSPM-1

- 1-Zone Paging Microphone
- Push to Talk Button



### CSPM-2

- 2-Zone Paging Microphone
- 2-Zone Select Buttons
- Push to Talk Button



### CSPM-4

- 4-Zone Paging Microphone
- 4-Zone Select Buttons
- Push to Talk Button

