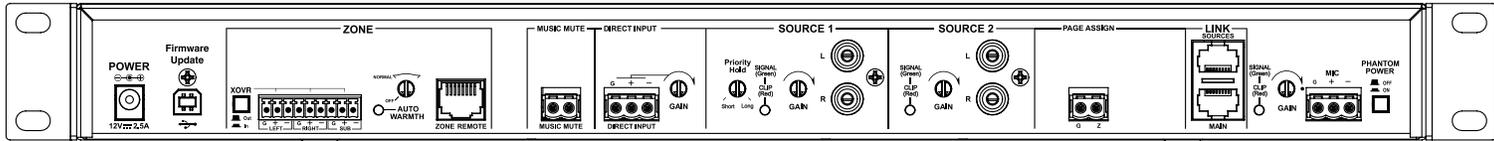
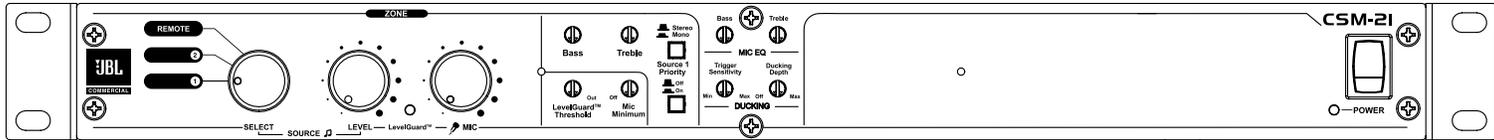


CSM-21



OVERVIEW:

The JBL® Commercial CSM-21 offers fixed I/O, pre-configured architecture, full stereo or mono operation, flexible routing and control of multiple audio sources, simple front-panel configuration and control without the need for a computer, compatibility with the CSR wall controllers, compatibility with the CSPM paging microphones, and optional duplication of audio channels to another device via a Cat5 cable.

The CSM-21 features two stereo music inputs with gain control and clip LEDs, and one stereo output with an active crossover and a dedicated subwoofer output.

Two additional inputs are provided for music override. First, a mic input with phantom power and gain control can be routed to the output zone, ducking the music by a user-configurable amount. Second, a line input allows high-priority ducking of all sources, which is ideal for alarms.

Dedicated controls for music EQ and mic EQ allow the frequency content of each input type to be customized independently. LevelGuard™ is provided to retain consistent volumes between the various inputs, and AutoWarmth™ is provided to ensure full fidelity at all zone volume levels.

A Zone Remote port facilitates connection of the CSR wall controllers, which can provide source selection and/or volume control. Source select, music level, and mic level can also be controlled on the front panel. For additional control, two logic inputs facilitate page steering and music muting via contact closure.

Two RJ-45 Link ports allow multiple CSM devices to be linked to increase the number of output zones. Linking CSM devices shares the inputs from the main devices over Cat5 cable and eliminates the need for Y-cables.

An included security plate can be placed over the front panel controls to avoid uninvited changes to a commissioned system.

KEY FEATURES:

- 4 Inputs / 1 Output
 - 2 Stereo Inputs
 - 1 Mic Input
 - 1 Line Input for Priority Audio
 - 1 Stereo Output with Dedicated Subwoofer Output
- Quick and Simple Configuration via Front/Rear Panel Controls
- Digital Processor with Analog-Style Control
- Separate EQ for Mic and Music Inputs
- AutoWarmth™ and LevelGuard™
- Control
 - Front Panel
 - Optional CSR Controllers
 - Contact Closure
- Link Bus for Input Sharing
- Security Plate for Front Panel Lockout (included)



CSM-21

Line Inputs:

Type:	2 stereo, unbalanced RCA connectors
Nominal Sensitivity:	-10dBV
Input Impedance:	20k ohms
Maximum Input:	+12dBu
Equalization:	Bass +/- 10dB @ 80Hz, Treble +/- 10dB @ 8kHz, 6dB/Octave Shelf

Mic Input:

Type:	Balanced, 5.08 mm, Euroblock connector
Input Impedance:	2k ohms
Noise:	EIN <117 dB, 150 ohm, DSP band-limited 120Hz-8kHz, BW24
Maximum Input:	+20dBu
Equalization:	Bass +/-6dB @ 250Hz, Treble +/-6dB @ 2kHz, 6dB/Octave Shelf
CMRR:	>40dB, typically >55dB @ 1kHz
Pre-Amp Gain:	+30dB to +60dB adjustable
Phantom Power:	+48VDC, 10mA

Zone Output:

Type:	1 stereo (Left, Right, Sub), balanced 3.5mm, Euroblock connector
Output Impedance:	120 ohm balanced
Max. Output Level:	+20dBu
XOVR specifications:	
	"Out"
	Left, Right: 20Hz-20kHz
	Sub: 20Hz-20kHz (mono summed)
	"In"
	Left, Right: 125Hz High-Pass (BW24)
	Sub: 125Hz Low-Pass (BW24)

Rear Panel LED Indicators:

Source Inputs:	Signal Present LED (turns on at -20dBu)
	Signal Clip LED (turns on at +10dBu)
Mic Input:	Signal Present LED (turns on at -20dBu)
	Signal Clip LED (turns on at +18dBu)

System Performance:

Frequency Response:	20Hz – 20kHz, +/- 0.1dB
Dynamic Range:	104dB, A-Weighted, 20Hz-20kHz
Converter Type:	Mic input implements dbx Type IV™ Conversion System
Sample Rate:	48kHz
Crosstalk:	>75 dB
THD+N:	0.005% typical at +4dBu, 20Hz-20kHz, 0dB gain

Miscellaneous:

Direct Input:	Balanced, 5.08mm Euroblock connector
	Input Impedance: 10k ohms
	Maximum Input: +20dBu
	Frequency response: 20Hz-20kHz
Music Mute:	2-pin 5.08mm Euroblock connector
	Connecting the pins mutes all Source inputs, does not mute Mic input
Page Assign:	2-pin 5.08mm Euroblock connector
	Connecting the pins will assign a page to the output zone
Source Link:	RJ45, CAT3 or higher. Max length 2.4m
Main Link:	RJ45, CAT3 or higher. Max length 2.4m

General:

Power Consumption:	10W
Power Requirements:	100-240V Thermal fuse in external transformer
Dimensions (WxHxD):	19.0"(483mm) x 1.8"(46mm) (no feet) x 7.0"(178mm) (including knobs and connectors)
Weight:	5.3 lbs (2.4kg)