

CX263

Three Zone Mixer



Cloud
Clearly better sound

CX263 Three Zone Mixer

The increasing choice of music, entertainment and information sources available to both venues and retail outlets, has created a demand for a new kind of mixer. Cloud has designed the CX263 especially to meet this need. Specifically, the CX263 has one stereo and two mono zones with 6 stereo line level inputs plus 2 balanced microphone inputs which can be independently selected to operate in the 3 output zones. If more zones are needed several CX263 units can be used in parallel; simply connect the signal sources to parallel connected inputs of several mixers. The CX263 provides for analogue local or remote control of both music level and source or digital control over RS232 by using the optional CDI-S200 serial interface module which can control the music source & level, mic access for each zone, and music and mic mute. This unprecedented flexibility is provided in a compact format which, once installed, is extremely simple and convenient to operate and where appropriate can even be locked away.

The CX263 offers a choice of configurable priorities for both microphones and automated messaging equipment or a juke box. Separate, adjustable EQ is provided for each mic input and the music signals in each zone. Because the CX263's advanced circuitry uses only the highest quality components, it offers outstanding sound quality, fully the equal of the best source material. Best of all, because it is built and tested to the highest standards, the CX263 comes with reliability and long life built in.

Finally, the CX263 offers the option of remote music mute, often a requirement in licensed premises and shopping malls. Once, the provision of such a large number of controls, facilities and options would have resulted in a system which was dauntingly complex. Today, the CX263 provides a solution to venue sound system control which is simply better.



Applications

The CX263 is the solution to a wide range of applications, including:

- Restaurants ■ Licensed venues
- Leisure venues ■ Retail outlets

Stereo Line Inputs

The CX263 has 6 stereo line inputs which are suitable for a wide variety of music sources, such as CD players, MP3 players, hard disc systems, video sound tracks, satellite receivers, juke box, digital messaging units etc. Connection is by way of RCA phono sockets on the rear panel.

Music Input Sensitivity & Gain Control

All six stereo line inputs have a pre-set gain control adjacent to the respective input sockets. The gain control has a range of 24dB allowing the input sensitivity to be varied from -18dBu (100mV) to +6dBu (1.5V).

Music Source Select

A front panel 6 position rotary switch is provided for each of the three zones to select the desired music source.

Remote control of source select function is also possible with the RSL-6 control panel or the optional serial interface module the CDI-S200.

Line 6 Priority

The signal on Line 6 can be configured on each zone to have full priority over the selected music signal. This function is useful to interface priority music signals derived from a Juke Box or spot announcement machine

Music Level Control

A front panel level control is provided for each of the three zones to adjust the level of the selected music source. Optionally, the level of the selected music source can be controlled remotely by the RL-1, RSL-6 control plates and the optional serial interface card the CDI-S200.

Microphone Inputs

Two mic inputs are provided on the CX263, the electronically balanced input stages employ low noise circuitry with a high input overload margin at all gain settings and is suitable for microphones with an impedance in the range of 200 to 600Ω. Inputs are via 3-pin plug in screw terminal connectors (Phoenix type) located on the rear panel.

Mic Gain

A pre-set gain control is provided adjacent to each input connector. The gain can be adjusted from 10dB to 50dB, this wide range of gain also allows direct connection of high

output devices such as radio microphones without the need for additional attenuation.

Mic Level

The Mic level in each zone is set independently by the respective front panel level control. The level set by these controls is not varied by the remote level controls, when fitted.

Mic Mute

If the optional serial interface card the CDI-S200 is fitted, muting of individual mics is possible

Mic EQ

Independent microphone equalisation is provided for each microphone input, this has both a high pass filter and independent HF & LF equalisation controls. The filter attenuates the signal below 100Hz and the EQ controls are optimised for tonal correction of speech signals providing ± 10 dB at 100Hz and 5kHz. The EQ controls are front panel presets which are concealed from the operator once the tamperproof fascia is fitted.

Phantom Power

A facility to provide +15V phantom power for either or both mics is included.

Paging

A paging mic can be connected to the CX263 Mic 1 input and this utilises the individual paging access contacts provided for each of the zones. The CX263 is compatible the Cloud range of paging mics but can also be used with many other types.

Priority

Mic 1 can take priority over Mic 2 input, and will automatically take priority over music signals. This prioritisation can be triggered by signal detection or via the access contacts. Mic 2 will automatically take priority over music signals. The mic over music priority for each mic input can be defeated on any or all zones

Zone outputs

The CX263 features one stereo and two mono zones, the output stages, are all balanced via 3-pin plug-in screw terminal connectors (Phoenix type). The low noise output circuitry is capable of driving into loads as low as 600Ω and the nominal output level is 0dBu (775mV) although the CX263 is capable of providing a maximum output of up to +20dBu (7.75V). The stereo zone can be configured for mono operation if required.



Equalisation

Each zone has separate pre-set treble and bass controls for the music signals only. These rear panel pre-set controls are located adjacent to the respective zone output sockets, the music treble control has a range of $\pm 10\text{dB}$ at 10kHz and the music bass control operates with a range of $\pm 10\text{dB}$ at 50Hz .

Speaker Equalisation Modules

Each output channel can accept an equalisation module. Cards are available to match the following Bose® loudspeakers models:

M8, M16, M32, MA12, 402, 502A, 502B, 502BEX, 802, MB4, MB24, LT3302, LT4402, LT9402 & LT9702



RSL-6 (far left)
with RL-1

Remote Control

Remote control of some functions of the unit is possible by using one of our control plates or the optional serial interface card the CDI-S200

RL-1 control plate

The RL-1 can be used on any zone where remote control of the music level is required.

RSL-6 control plate

The RSL-6 can be used on any zone where remote control of music source select and music level is required.

CDI-S200 Serial Interface card

The CDI-S200 is an RS-232 compliant, serial interface card and can be installed to provide:

- Music source selection in any zone
- Music level in any zone
- Music mute
- Individual mic mute
- Mic access for Mic 1 in all 3 zones

Remote Music Mute

In certain installations, such as licensed premises or retail outlets in a shopping mall, there may be a local authority or fire service requirement to mute the music signals via a fire alarm control panel in an alarm condition. The CX263 provides a facility to mute the music signals only, by using a fully isolated pair of contacts (usually a relay mounted close to the CX263 which is powered by the fire alarm control panel) The relay contacts can be either open or closed during an alarm condition, internal jumpers are provided to select N/O or N/C operation. The front panel mounted 'Music Mute' LED will illuminate to indicate the operation of the mute circuit.

TECHNICAL SPECIFICATIONS



Stereo Line Inputs

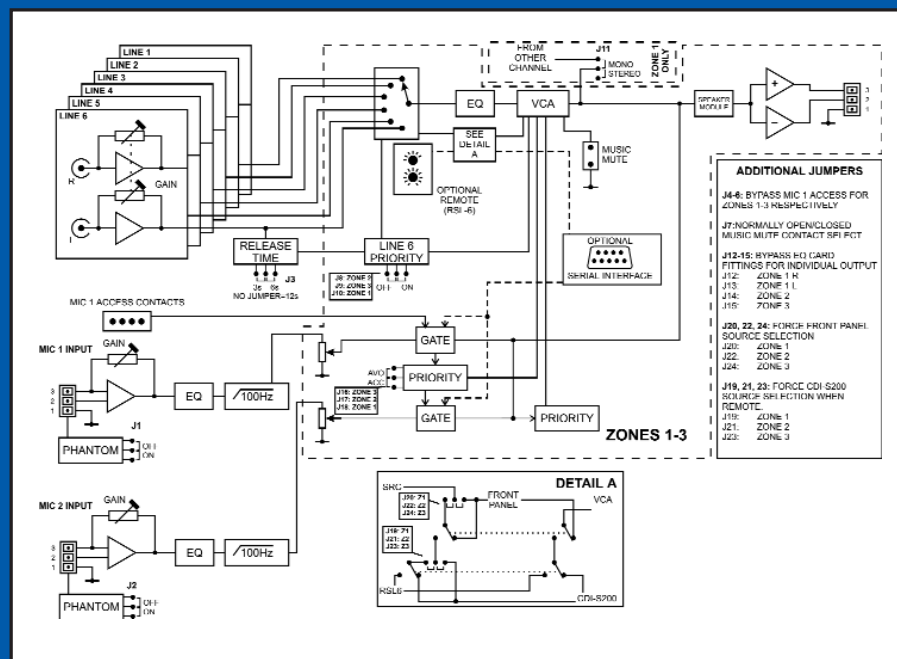
Frequency response	20Hz-20kHz +0, -0.3dB
Distortion	<0.05% 20kHz-20kHz Typical
Sensitivity	100mV (-17.8dBu) to 1.5V (+6dBu)
Input impedance	47kΩ
Input gain control	24dB range
Headroom	>20dB
Noise	-90dB rms 20Hz-20kHz (0dB gain)
Equalisation	HF ±10dB/10kHz LF ±10dB/50Hz

Microphone Inputs

Frequency response	100Hz -3dB (filter) 20kHz ±0.5dB
Distortion	<0.05% 20Hz-20kHz typical
Gain range	10dB-50dB
Input impedance	>2kΩ (balanced)
Common mode rejection	>70dB 1kHz
Headroom	>20dB
Noise	-128dB EIN 20Hz-22kHz 150Ω
Equalisation	HF ±10dB/5kHz LF ±10dB/100Hz

General Specifications

Power consumption	15VA
Power input	230V ±10%
Fuse rating	T100mA for 230V input T200mA for 115V input
Fuse type	20mm x 5mm 250V
Dimensions	482.6mm x 44.0mm (1U) x 152.5mm deep (+connectors)
Weight	3.5kg including packaging



Cloud

Cloud Electronics Limited, 140 Staniforth Road,
Sheffield S9 3HF, England.

Telephone: +44 (0)114 244 7051

Fax: +44 (0)114 242 5462

Web site: www.cloud.co.uk

E-mail: info@cloud.co.uk

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