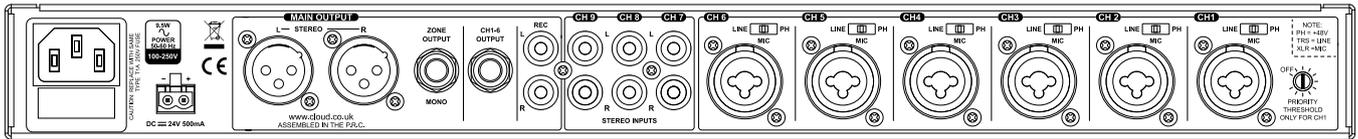
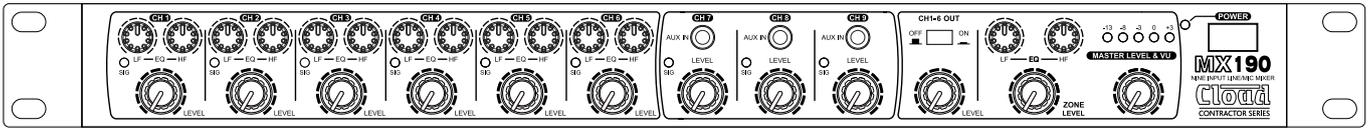


# CONTRACTOR SERIES MIXER

MODEL: MX190



MX190 Front and Rear Views

## General Description

The Cloud MX190 is a cost-effective, rackmounting (1U) nine channel stereo audio mixer for use in all types of commercial premises. It is simple to install and operate and provides a useful range of features and configuration options.

The mixer has six primary channels, each of which may operate either as a balanced mic input or a balanced line input: all connections are on the rear panel. 48V phantom power is available at all mic inputs, selected per-channel by rear panel switches. Channel 1 features adjustable VOX detection to allow paging use, with voice-over-programme ducking. VOX threshold is adjustable via a rear panel preset control. There are three further unbalanced stereo line inputs, with both rear panel input and a front panel 3.5 mm TRS jack, allowing easy connection of tablets, laptops, etc.

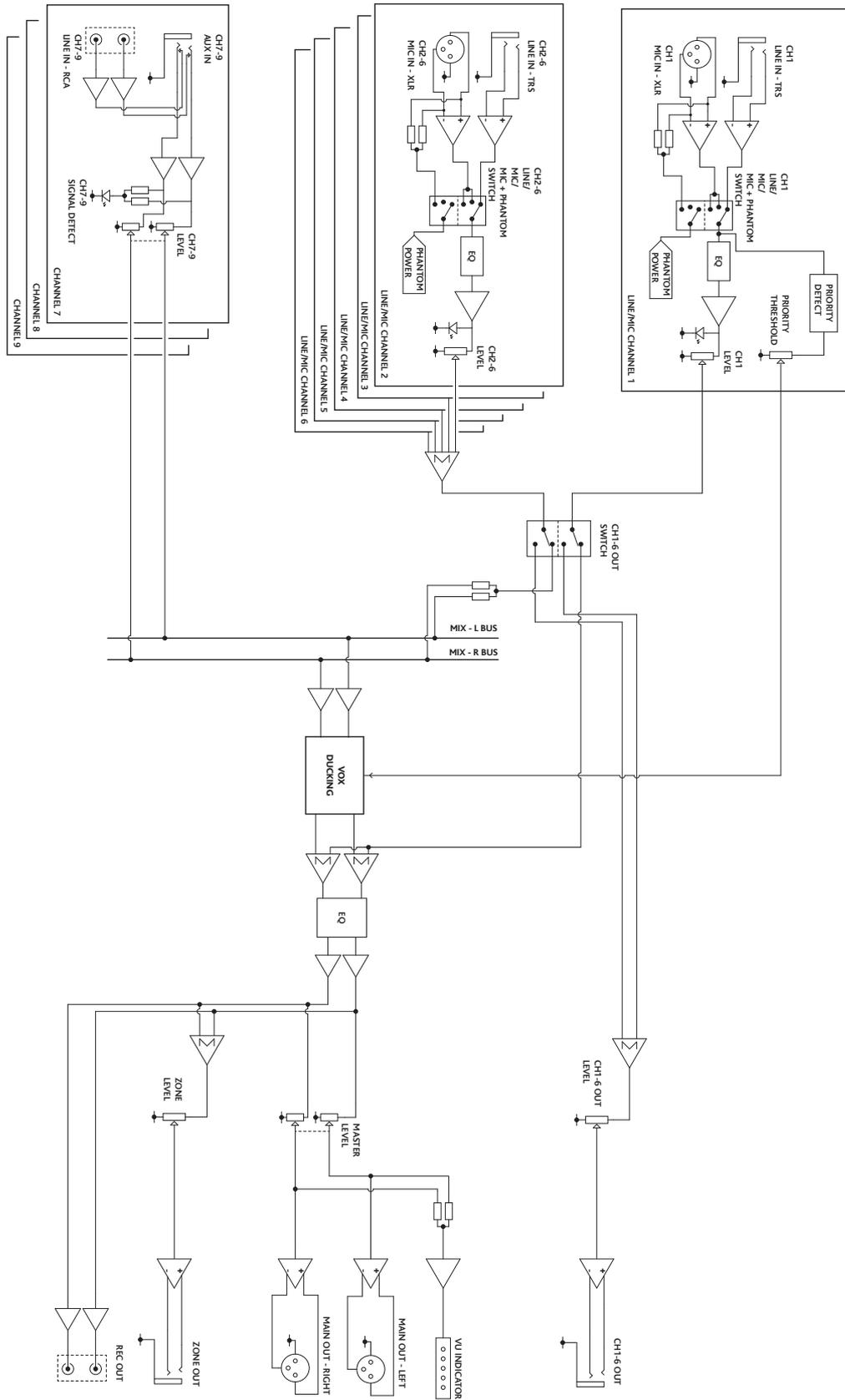
The front panel provides level and HF/LF EQ controls for each of the six mic/line channels, and level controls for each of the stereo line inputs. All inputs feature "signal present" LEDs, which illuminate on input signal detection.

The main stereo output of the mixer is balanced: the front panel has an output level control and an LED bargraph meter. An unbalanced pre-fade version of the main output is available on phono connectors as a source for recording or other applications. A mono sum of the main output is available at a separate balanced Zone Out connector; the level at this output is adjustable independently of the main output level. A further (balanced) CH1-6 Output provides a mixed sum of the six primary inputs, again with a separate front panel level control. When this output is made active by its front panel switch, the six primary inputs are removed from the mix at the main and Zone outputs; these outputs then continue to carry a mix of the three stereo line inputs, with ducking remaining active.

## MX190 main features:

- Industrial quality nine channel stereo mixer for commercial installations
- Six primary inputs, selectable mic/line, balanced (XLR/TRS jack Combo connectors)
- One mic/line input configurable for priority use with ducking
- 48V phantom power, selectable per mic input
- Three stereo line inputs, unbalanced (rear panel RCA /phonos and front panel 3.5 mm TRS jacks)
- Front panel gain controls for all inputs
- Front panel HF/LF EQ controls for each mic/line input
- Front panel signal present LED for each input
- Master stereo output on XLRs, balanced
- Master output level control and LED bargraph on front panel
- Pre-master level control Record Out on phonos, stereo, unbalanced
- Mono sum Zone output (balanced), with independent front panel level control
- Separate CH1-6 output provides sum of mic/line channels; front panel level control
- Universal AC PSU (100-250V), can also operate from external 24V DC supply
- 1U rackmounting unit with attractive styling

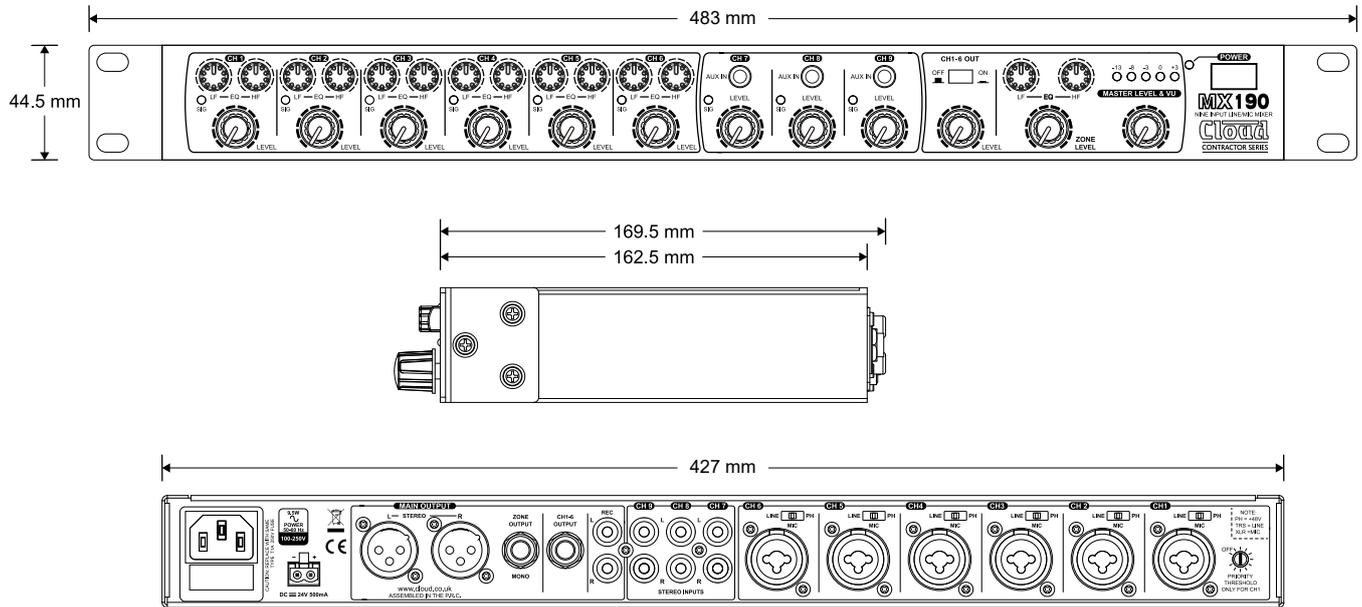
## Block diagram



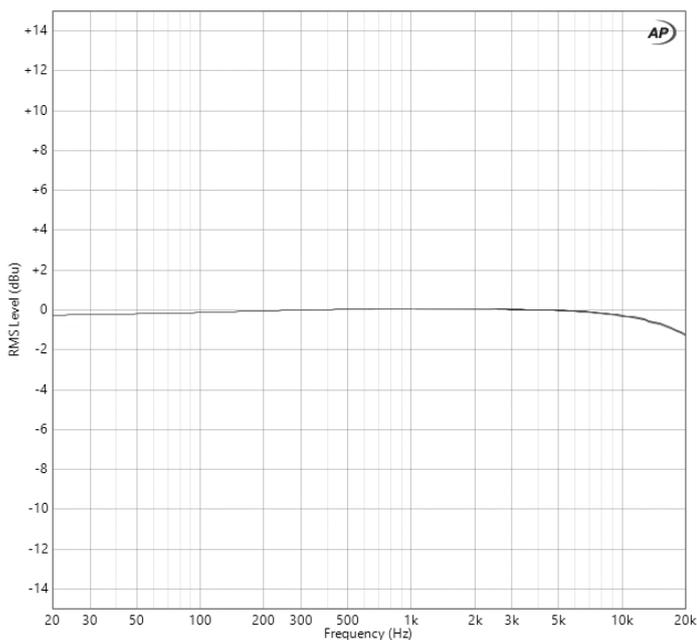
## Technical Specifications

<b>Inputs</b>		
Mic inputs (Chs 1-6)	Balanced, 40 dB gain: Combo XLR/1/4" TRS jacks; 48V phantom power selectable per input	
Line inputs (Chs 1-6)	Balanced, 0 dB gain: Combo XLR/1/4" TRS jacks	
Line inputs (Chs 7-9)	Stereo unbalanced, 0 dB gain: phono/RCA (rear panel) or 3.5 mm TRS jack (front panel)	
<b>Outputs</b>		
Main output	Stereo, balanced, max. output level +10 dBu: 2 x XLR3M	
Zone Output	Mono, balanced, max. output level +10 dBu: 1/4" TRS jack	
CHI-6 Output	Mono, balanced, max. output level +10 dBu: 1/4" TRS jack	
Record Out	Stereo, unbalanced, 0 dBu typical: 2 x phono/RCA	
<b>Chs 1 - 6 equalisation</b>		
LF	+/-12 dB @ 60 Hz	
HF	+/-12 dB @ 12 kHz	
<b>Main output equalisation</b>		
LF	+/-10 dB @ 50 Hz	
HF	+/-10 dB @ 10 kHz	
<b>Performance</b>		
Signal-to-noise ratio	>85 dB (line inputs)	
Crosstalk	>75 dB (line inputs)	
THD	<0.06% (output <+10 dBu)	
Frequency response	20 Hz to 22 kHz, ±3 dB	
Channel balance	<3 dB	
<b>General</b>		
Power input	100 - 250 VAC @ 50/60 Hz, or 24V DC	
Power consumption	9.5 W max.	
Fuse details	T1A 250V, 20 x 5 mm	
Dimensions	Net	483 mm x 44.5 mm (1U) x 169.5 mm (19" x 1.75" x 6.7")
	Shipping	561 mm x 89 mm x 260 mm (22.1" x 3.5" x 10.2")
Weights	Net	2.30 kg (5.07 lb)
	Shipping	2.90 kg (6.39 lb)

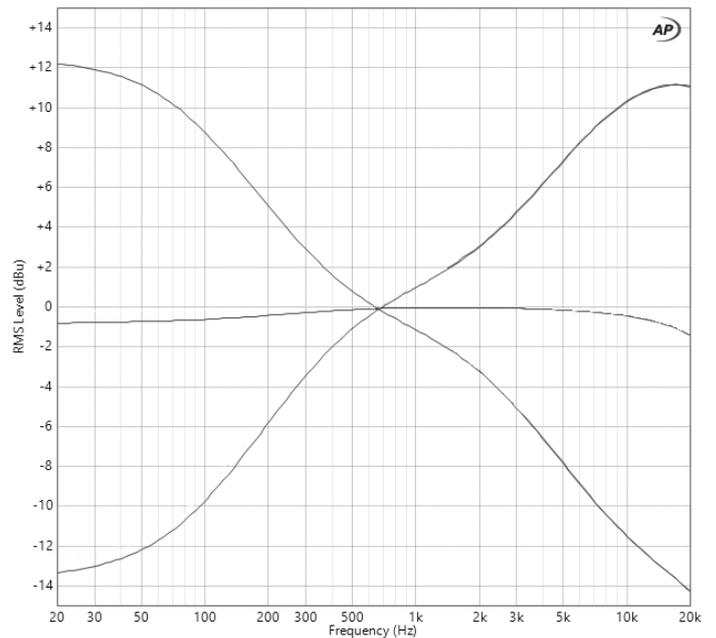
## Dimensions



## Performance Graphs



Frequency response



Channel EQ

## Architect's and Engineer's Specification

The stereo mixer shall be equipped with nine input channels. All input channels shall be provided with front panel visual indication of "signal presence".

Six input channels shall be switchable for either line or mic level signals: the inputs shall be balanced and use sockets capable of accepting either an XLR connector or a 1/4" TRS jack. Each of these channels shall be equipped with level and two-band equalisation controls accessible from the front of the unit. One channel shall include a signal detection system that will cause all other input channels to be reduced in level; the signal threshold for priority activation shall be adjustable externally. All microphone inputs shall be capable of powering capacitor microphones able to operate on a 48V DC phantom power source; the provision of phantom power shall be selectable independently for each input.

Three input channels shall have a stereo line input, with two connection options: i) an unbalanced input using two phono sockets (RCA jacks), ii) an unbalanced input using a 3.5 mm TRS jack socket, which shall be accessible from the front of the unit. Level controls for each of these channels shall be accessible from the front of the unit.

The mixer shall have one master and three auxiliary outputs. The master output shall be stereo, balanced and use XLR connectors. Master output level adjustment shall be available from the front of the unit; visual indication of post-fade signal level shall be provided by an LED bargraph meter of not less than five segments.

The three auxiliary outputs shall be configured as follows: i) a pre-fade unbalanced stereo version of the master output shall be available; this shall be on two phono sockets (RCA jacks); ii) a pre-fade, balanced mono sum of the master output shall be available; this shall be on a 1/4" TRS jack socket, and have a separate output level control on the front panel; iii) a balanced sum of the mixer's six mic/line input channels only shall be available; this shall be on a 1/4" TRS jack socket, and shall have a separate output level control on the front panel. It shall be possible to activate this output with a front panel switch; when active, the mixer's master and auxiliary outputs i) and ii) above shall continue to carry a stereo mix of the three stereo line inputs and the priority ducking facility shall also remain operational.

The mixer shall be built in a 1U steel chassis for mounting in a standard 19" rack. The front panel shall be fitted with a mechanically latching AC power switch. The mixer shall be capable of operating from either: i) an AC mains supply voltage of between 100V or 250V, or ii) a 24V DC supply. There shall be front panel visual indication of the mixer's active status using either power supply option.

The mixer shall be the Cloud Contractor Series MX190.