XL200

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Features

Mic Inputs.
The XL200 features a state of the art Analogue Devices mic amplifier which assures low distortion and excellent amplifier stability, RF rejection and noise performance.

Line inputs.
A separate Hi Z line input is incorporated which is ideal for playback of recorded material.

Direct Outputs.
Every input module is fitted with a direct output as standard making multi-track recording a simple task.

Equaliser.
The sonic performance of the legendary Midas equaliser is maintained including parametric mid's with sweepable frequency and switched ‘Q’. The treble and bass sections have the traditional Midas wide frequency range shelving characteristic.

Inserts.
Each channel has a half normalised fully balanced insert send and return point which can be switched in or out from the front panel and set as either pre or post equaliser.

Input metering.
These peak reading meters cover a 30dB range in 3dB steps and monitor pre fader signals.

Audio busses.
Each channel can be routed to any combination of 21 audio busses comprising of 8 aux'es, 6 mono groups, 2 stereo groups 2 stereo masters and 1 mono master. All switchable on the module front panel.

VCA and mute busses.
Each channel can be controlled by any combination of the 8 VCA master faders and 8 mute masters. Assignment of these busses is again switchable on the module front panel. Mutes may also be controlled by the optional automation system. A safe switch disconnects the channel from all mute groups.

Audio groups.

The main audio groups may also be assigned to any of the 8 automute groups. A safe switch is again included for each group. The input for the groups is derived from the 10 group busses.

Master.

The master module provides the main left, right and mono console outputs. A solo to master facility is incorporated on the left and right outputs to aid the engineer at sound checks.

Matrix.

The 8 matrix outputs are a part of the group modules, and derive their signals from the 6 mono audio groups, 2 stereo groups, left and right masters and mono master. creating a 13 X 8 matrix.

Output meters.

32 peak reading led bargraph meters (each covering a 60dB range in 3dB steps) are used to monitor all the group outputs i.e. 6 mono groups, 2 stereo groups, 8 matrix, and 8 auxiliary. 3 VU meters are used for the left, right, and mono outputs. They also automatically monitor the left, right, and mono solo functions

The Optional Midi Automation.

The Midi automation system provides 10 mute groups, 128 snapshots of mute settings and a solo-in-place mode which can be used alongside the conventional PLF/AFL system.

XL200 Stats and Overview

- 24 audio buss console with an additional 13 x 8 output matrix. The busses are as follows:
  8 mono aux groups = 8
  6 mono audio sub groups = 6
  2 stereo audio sun groups = 4
  1 stereo master = 2
  1 mono master = 1
  1 stereo Solo = 2
  1 mono Solo = 1
- 8 automute groups, and 8 input channel VCA sub groups which include VCA sun group muting.
- 48, 40, 32, 24 or 16 input channels with separate line and mic inputs.
- The 52 input XL200 has a total XLR input count of 75 as follows:

  52 channel mic inputs
  8 aux bus inject inputs
  10 audio group bus inject inputs
  8 matrix bus inject inputs
  3 master bus inject inputs
  1 comms input
  1 solo
- The 52 input XL200 has a total XLR output count of 32 as follows:

  8 aux outputs
  10 audio group outputs
  8 matrix outputs
  3 master outputs
  2 local outputs
  1 talk outputs
- The 52 input XL200 has a total of 44 balanced jack line inputs.
- The 52 input XL200 has a total of 146 balanced jacks for inserts (arranged pairs) as follows:
  52 input channel inserts sends
  52 input channel inserts returns
  10 audio group inserts sends
  10 audio group inserts returns
  8 matrix insert sends
  8 matrix returns
  3 matrix insert sends
  3 matrix insert returns
- The XL200 has a peak programme meters with 10 LED segments for each input and 20 LED segments meters for each output.
- XL200 configurations:
  52 Input XL200 44 mono inputs/4 stereo inputs
  44 Input XL200 36 mono inputs/4stereo inputs
  36 Input XL200 28 mono inputs/4stereo inputs
  24 Input XL200 24 mono inputs
  16 Input XL200 16 mono inputs

  XL200-32 extender 32 mono or stereo inputs
  XL200-24 extender 24 mono or stereo inputs
  XL200-16 extender 16 mono or stereo inputs

  Note: Mono + Stereo input modules are interchangeable

XL200 Technical Specifications

Input Impedance	Mic	2k Balanced
	Line	20k Balanced
Input Gain (all faders at 0dB)	Mic	Continuously variable from +6dB to +60dB
	Mic + Pad	Continuously variable from -14dB to +40dB
	Channel	Continuously variable from Line Input - 10dB to

		+ 20dB
	All other Line Inputs	0dB
Maximum Input Level	Mic	+ 15dBu
	Mic + Pad	+ 35dBu
	Channel Line Inputs	+ 26dBu
	All other Line Inputs	+ 21dBu
CMR at 1kHz	Mic (gain + 60dB)	> 70dB
	Mic + Pad (gain +40dB)	> 50dB
	Line	> 40dB
Frequency Response (20 to 20kHz)	Mic to Mix (gain + 60dB)	+ 0dB to - 1dB
	Line to Mix	+ 0dB to - 1dB
Noise (20 to 20kHz)	Mic EIN ref. 150 Ohms (gain + 60dB)	- 128dBu
	Line EIN ref. 150 Ohms (gain + 10dB)	- 100dBu
System Noise (20 to 20kHz)	Summing Noise (12 channels routed with faders down)	- 86dB
	Line to Mix Noise (12 channels routed at 0dB, pan centre)	- 81dB
Summing Noise	(48 channels routed with faders down)	- 80dB
	Line to Mix Noise (48 channels routed at 0dB, pan centre)	- 75dB
Distortion at 1kHz	Mic to Mix (+ 60dB gain, 0dBu output)	< 0.03%
	Line to Mix (0dBu)	< 0.03%
Crosstalk at 1kHz	Channel to Channel	< - 100dB
	Mix to Mix	< - 90dB
	Channel to Mix	< - 90dB
	Maximum Fader attenuation	> 90dB

Output Impedance	All Line Outputs	50 Ohms Balanced Source to drive > 600 Ohms
	Headphones	To drive > 8 Ohms Unbalanced
	Comms (Bi - directional)	600 Ohms Nominal Unbalanced
Maximum Output Level	All Line Outputs	+ 21dBu
	Headphones	+ 21dBu (8W into 8 Ohms)
	Comms (Bi - directional)	-10dBu
Nominal Signal Level	Mic	- 60dBu to + 14dBu
	Channel Line Inputs	- 20dBu to + 6dBu
	All other Line	0dBu
	Headphones	+10dBu
	Comms	- 20dBu
	Comms and Talk Mic	- 50dBu to - 20dBu
Headroom at all stages	Comms, Talk and Headphone	>10dB
	All other signals	>20dB
Input Metering	10 led peak reading	
	Range	- 25dBu to + 12dBu
	Colour Green	Up to + 3dBu Normal signal
	Colour Yellow	+ 6dBu to + 9dBu High signal
	Colour Red	+ 12dBu Signal Too High
	Quantity	77 (Monitoring all main inputs and outputs)
Equaliser	Hi pass slope	12dB / Oct
	Hi pass frequency	Continuously variable -3dB point from 20Hz to 400Hz
	Treble Gain	Continuously variable + 15 dB to - 15dB Centre detent = 0dB
	Treble Shelving Freq.	Continuously variable - 3dB point from 2k to 20k
	Hi Mid Gain	Continuously variable + 15 dB to - 15dB Centre detent = 0dB

	Hi Mid Freq.	Continuously variable centre from 400Hz to 8k
	Hi Mid Bandwidth	Switchable 0.5 Oct. and 1.0 Oct.
	Lo Mid Gain	Continuously variable + 15 dB to - 15 dB Centre detent = 0dB
	Lo Mid Freq.	Continuously variable centre from 100Hz to 2k
	Lo Mid Bandwidth	Switchable 0.5 Oct. and 1.0 Oct.
	Bass Gain	Continuously variable + 15 dB to - 15 dB Centre detent = 0dB
	Bass Shelving Freq.	Continuously variable - 3dB point from 20Hz to 400Hz

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Dimensions & Weights	Dimensions Width (52 Input XL200) 1986mm/ 78.18 inches (44 Input XL200) 1736mm/ 68.35 inches (36 Input XL200) 1486mm/ 58.50 inches (24 Input XL200) 1236mm/ 48.66 inches (16 Input XL200) 986mm/ 38.82 inches (XL200-32 extender) 1236mm/ 48.66 inches (XL200-24 extender) 986mm/ 38.82 inches (XL200-16 extender) 375mm/ 14.76 inches Depth (all consoles) 1020mm/ 40.16 inches Height (all consoles) 375mm/ 14.76 inches