

ARX UniMix AV Mixer

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Introducing the new **UniMIX** from ARX: Six Balanced XLR Mic / Line input channels with individual level controls, plus a dedicated stereo RCA jack Line In channel.

Each Mic/Line input has infinity to +6dB of Level available on the front panel, as well as a 10 to 50dB Input Gain control. The stereo Line Input channel has a -10 to +10dB Level Trim control, to allow accurate matching of any line level signals.

On the rear panel, each of the 6 electronically balanced Mic inputs can be switched to Line via individual switches.

Multiple Masters

For the room system, the **UniMIX** has 2 Balanced XLR outputs, with 3 way EQ and its own Master Level control.

The Recording Output is a single Balanced XLR Output, transformer isolated to prevent ground loops and associated noise.

Automatic Gain Control

The Recording Master also has its own Automatic Gain Control circuitry. Specially tailored parameters ensure that levels remain constant, irrespective of Mic placement and user technique.

The result is a consistent level for the recording, providing **increased intelligibility**, removing the need for fulltime monitoring and the risk of overloading and distortion.

The final Master control feeds the main signal to a transformer isolated Balanced XLR Auxiliary Output. This can be used for future expansion, remote monitoring or for feeding a wireless transmitter or other device.

Global Phantom Power is available on all Microphone inputs with a rear panel switch with associated front panel status LED.

Wide Dynamic Range

Internally, careful attention to the signal path design, using precision components found in high-end mixing consoles, has resulted in a unit with very wide dynamic range. The **UniMIX** has enough headroom to cope with the hottest line signal, and better than digital noise specifications

Universal AC Power

AC power range is a universal 100 to 120V or 220 to 240V AC, and is connected to the unit via a standard three pin IEC connector, with built-in fuse and voltage change switch.

Problem 1: Getting the correct recording level is hard, given that the level requirements are different to those of speakers.

Problem 2: Maintaining a steady input level to the computer requires continual monitoring to prevent digital overload.

The Solution

Input Impedance Mic: 4K Ohms Balanced, Line 22K Ohms Unbalanced

Input Gain Microphone: Variable 10 dB to 50 dB with rear trim control, Mic / Line switch -20dB

Output Level (Max) +21dB

AGC Threshold -50 to -20 dB

AGC Output Gain -20 to +20 dB

Phantom Power:

+48VDC switchable on all Microphone Inputs

Output Signal/Noise (@ unity gain) -90dB A weighted, all inputs @ Unity, Master @ Unity

Dynamic Range 115dB

Master Output EQ

Low 100Hz 15dB Cut/Boost

Mid 800Hz 15dB Cut/Boost Bell, Broad Q

High 10KHz 15dB Cut/Boost

Master Outputs Electronically Balanced XLR 300 ohms Line Level Balanced Output Connectors Male XLR:
Pin 1 Ground, Pin 2 +, Pin 3 -

Frequency Response 20Hz-20 KHz \pm 1dB

Distortion (@ unity gain Below 0.0035%, 100 Hz to 10KHz

Input Connector Type Mic/Line - Amphenol Female XLR, Hi Z Input - Phono (RCA type)

Output Connector Type Amphenol Male XLR

Recording Output Connector Type Amphenol Male XLR

Front Panel Controls

Individual Level controls for each input channel - infinity through 0db to +6dB

Individual Gain Controls for each Input channel, 10 to 50 dB

Stereo Line In Level and Trim control

Master Output 3 way EQ and Level control

System Status LEDs

Recording Master Level control and Automatic Gain Control Threshold trim

Auxiliary Master Output control

Marker panel for labelling input channels

Rear Panel

6x Female XLR Balanced Inputs wired Pin 1 Audio Ground, Pin 2 +, Pin 3 -

RCA type Stereo Line Inputs

Transformer isolated XLR Balanced Recording Output

Left and Right Male XLR Balanced Outputs, wired Pin 1 Audio Ground, Pin 2 +, Pin 3 -

Transformer isolated Auxiliary Master XLR Output

Global Mic input Phantom Power switch

Removable IEC type AC input connector, with inbuilt fuse