



A33 AUDIO MIXER

Version:1.0

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Data Sheet

RipaTech Pty Ltd

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PRODUCT SUMMARY

High-performance analog mixing console with integrated DSP effects, designed for live sound, studio recording, and video conferencing applications..



Figure 1 A33 Audio Mixer

FEATURE HIGHLIGHTS

Input/Output Configuration

Category	Specification
Mic Inputs	8 × Balanced XLR with +48V Phantom Power
Stereo Inputs	2 × Stereo Line Inputs (RCA/6.3mm)
Group Outputs	2 × Balanced Group Bus Outputs
AUX Sends	3 × Independent AUX Sends (Pre/Post-Fader Selectable)
Signal Inserts	Channel Insert Points on Mic Inputs

Audio Processing

- **Preamplifier:** Low-noise design with high anti-interference capability
- **Phantom Power:** +48V switchable per channel for condenser microphones
- **Equalization:** 3-Band EQ per channel
 - Low: 80 Hz ±15 dB (fixed)
 - Mid: 250 Hz – 6 kHz ±15 dB (**sweepable**; MF range: 140 Hz – 3 kHz)
 - High: 12 kHz ±15 dB (fixed)
- **DSP Effects:** Built-in digital processor with 4 assignable bus groups



A33 audio mixer

- **AUX Routing:** Each of 3 AUX sends independently configurable as pre-fader or post-fader

Hardware & Build Quality

- **PCB Technology:** Double-sided SMT assembly for enhanced reliability and noise rejection
- **Faders:** 100 mm travel, high-resolution precision faders
- **Media Playback:** Integrated MP3 player with USB input support
- **Headphone Output:** Dedicated monitoring with 260 mW output power

TECHNICAL SPECIFICATIONS

Audio Performance

Parameter	Specification
Total Harmonic Distortion (THD)	< 0.005%
Frequency Response	20 Hz – 20 kHz (+1 dB / –3 dB)
Maximum Output Level	+18 dBm (1 kHz, THD = 0.5%)
Signal-to-Noise Ratio	–81 dB (referenced to +4 dBu)
Residual Output Noise	< –83 dBu
Crosstalk (Channel Separation)	< –79 dBu

Gain & Impedance

Parameter	Specification
Gain Range (Mono Channels)	–51 dB to 0 dB
Gain Range (Stereo Channels)	–26 dB to 0 dB
Input Impedance	Mic: 2.4 k Ω | Line (Mono): 11 k Ω | Stereo: 100 k Ω
Output Impedance	\leq 75 Ω (all balanced outputs)

Monitoring & Power



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Parameter	Specification
Headphone Output Power	260 mW @ 1 kHz, THD = 0.5%, 200 Ω load
Power Consumption	35 W (typical operation)
Power Supply	AC 100–240 V, 50/60 Hz (internal universal supply)

MECHANICAL & ENVIRONMENTAL *(Typical)*

Parameter	Specification
Operating Temperature	0°C to +40°C
Storage Temperature	–20°C to +60°C
Humidity (Non-condensing)	10% to 90% RH
Dimensions (W×D×H)	<i>Consult model-specific documentation</i>
Weight	<i>Consult model-specific documentation</i>



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CONNECTOR SUMMARY

Function	Connector Type
Microphone Inputs	XLR (Female, Balanced)
Line Inputs (Mono)	6.35 mm TRS / XLR Combo
Stereo Inputs	RCA or 6.35 mm TRS
Main/Group Outputs	XLR (Male, Balanced)
AUX Sends	6.35 mm TRS (Balanced/Unbalanced)
Insert Points	6.35 mm TRS (Tip=Send, Ring=Return)
Headphone Output	6.35 mm Stereo Jack
USB Port	Type-A (Host, for MP3 playback)

Notes:

- All specifications measured at 1 kHz, +4 dBu reference level, unless otherwise noted.
 - Phantom power (+48V) is globally switchable or per-channel, depending on configuration.
 - DSP effects library and preset details available in separate user manual.
 - Specifications subject to change without notice. Verify with manufacturer for project-critical applications.
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ORDERING GUIDE

RipaTech product Model: RIPA A33 AUDIO MIXER