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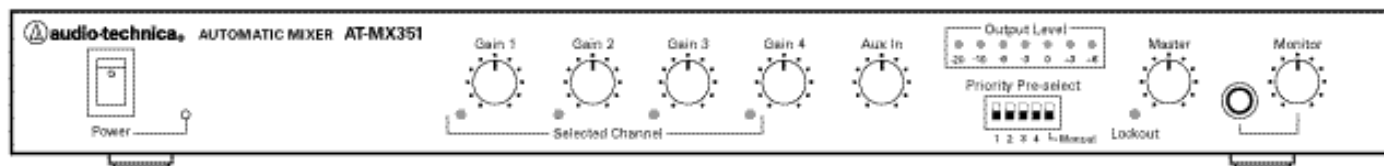
# SmartMixer® Automatic Mixers

**AT-MX351 SmartMixer®**


The AT-MX351 automatic mixer is ideal for meetings, seminars, teleconferencing, worship services, courtroom proceedings, radio and TV broadcasting and A/V applications. All switching is under microprocessor control with proprietary algorithms for instant, seamless operation. An individual priority pre-select switch for each mic/line channel allows choice of one-channel-at-a-time operation, all active, or any mix of moderator override. The last microphone on stays on so that ambient sound is never muted. Plus, any number of SmartMixers can be linked to create a system for large multi-mic installations. The priority control system extends throughout the entire chain.

- Four automatic Mic/Line inputs, plus Aux in
- Automatic threshold setting
- 48V phantom power individually selectable for each channel
- Limiters on each mic channel prevent individual channel overload
- Balanced inputs and output, selectable Mic/Line-level
- Individual gain controls for each channel
- Switchable manual mode overrides automatic functions
- Master output level control
- Pre- or post-controller audio outputs from Mic/Line channels
- Off attenuation for each input adjustable to -40 dB
- Sub-D connector for TTL output, plus closure-control input for external control of each channel
- NOMA operation provided, can be turned on/off
- Output level meter with Peak and RMS modes
- Monitor headphone output with adjustable level
- Internal AC supply
- Mounts in a single 19" rack space
- Includes rack mount adapters

## AT-MX351 Front Panel Details

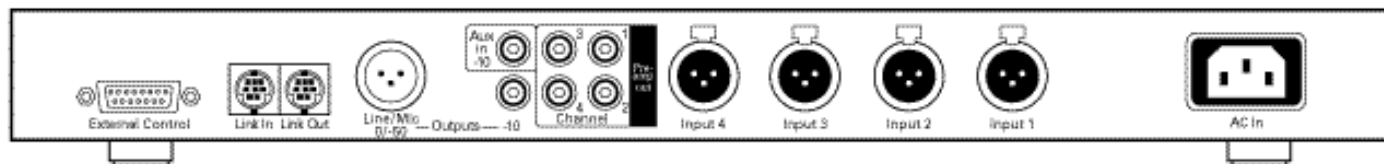


(left to right)

- **Power switch.**
- **Selected Channel LED indicators.** Indicate which channels are "on" or "active."
- **Input Gain controls.** Adjust inputs for microphone sensitivities and/or operating conditions.

- **Aux In control.** Adjusts input for source output level and/or operating conditions.
- **Output Level LED meter.** Indicates RMS output level of the mixer. "Zero" (0) level is factory calibrated for an output of +4 dBm into 600 ohms (Master level control fully clockwise). Can be set for peak output level indication via internal switch.
- **Priority Pre-select switches (1-4).** A switch in the "up" position assigns the respective channel priority over the other channels. A priority channel can not be locked out by other channels. Any combination of priority/non-priority selections is allowed.
- **Manual mode switch.** Setting this switch in the "up" position bypasses all of the SmartMixer's automatic functions, except limiting and NOMA if selected.
- **Lockout LED indicator.** Shows when lockout bus is active.
- **Master level control.** Adjusts mixer output level for operating conditions.
- **Headphone output.** 1/4" TRS jack
- **Monitor Headphone level control.**

### AT-MX351 Rear Panel Details



(left to right)

- **External Control connector.** For TTL output, plus closure-control input for external control of each channel.
- **Link In/Link Out.** Provides for daisy-chaining of multiple mixers when more than four microphones are used.
- **Line/Mic balanced output.** Level can be changed via internal switch. XLRM-type connector.
- **Aux In.** Unbalanced, line-level (-10 dBV), auxiliary input.
- **Unbalanced line-level (-10 dBV) output.** RCA jack.
- **Preamp Outputs.** Independent, unbalanced (-10 dBV), switchable pre/post-controller outputs from mic channels.
- **Inputs.** Balanced microphone inputs for low-impedance dynamic or condenser mics. Can be changed to line-level inputs via internal switches. XLRF-type connectors. Can supply 48V phantom power via internal switches.
- **Power input.** 120V/230V AC, 50/60 Hz. Select input voltage via switch on bottom panel.

### AT-MX351 Specifications

#### Input Impedance

Mic	8,000 ohms
Line	50,000 ohms
Aux	50,000 ohms
Link In	20,000 ohms

#### Output Impedance

Balanced	
Line	200 ohms
Mic	300 ohms
Unbalanced	400 ohms
Link Out	100 ohms
Preamp Out	750 ohms

## Maximum Input Level

Mic	-24 dBV
Line	+27 dBV
Aux	+17 dBV
Maximum Output Level*	+22 dBm

## Nominal Output Level (0 VU)

*	
Balanced	
Line	+4 dBm (600 ohms), +4.4 dBV (open circuit)
Mic	-46 dBm (600 ohms), -44 dBV (open circuit)
Unbalanced	
Preamp Out	-10 dBV (open circuit)
Maximum Monitor Output	700 mW, 20 ohm load
Maximum Gain	73 dB
Frequency Response	40 Hz to 22 kHz
Equivalent Input Noise <sup>1</sup>	-128 dBV (150 ohms) at maximum gain
Input Attenuation	10 dB
Mic/Line Input Pads	50 dB
Maximum NOMA	
Attenuation	approximately 20 dB (up to 100 mics on simultaneously)
Microphone Phantom Power	+48V DC
Control Voltage Out	+4V DC
Power Supply	120V/230V AC (switchable), 50/60 Hz, 10W
Operating Temperature	32° to 104° F (0° to 40° C)
Dimensions	16.93" (430 mm) W x 9.38" (238 mm) D x 1.75" (44 mm) H (including feet, knobs and connectors)
Weight	6 lbs. 13 oz (3.1 kg)
Accessories Included	AC power cable, AT8325/1.0 Link Cable, rack mount adapters, security caps

\*Master Level control at maximum (fully clockwise)

<sup>1</sup>Input terminated with 150 ohms, A-weighted using Audio Precision System One

[Conditions and Warranty](#)

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