



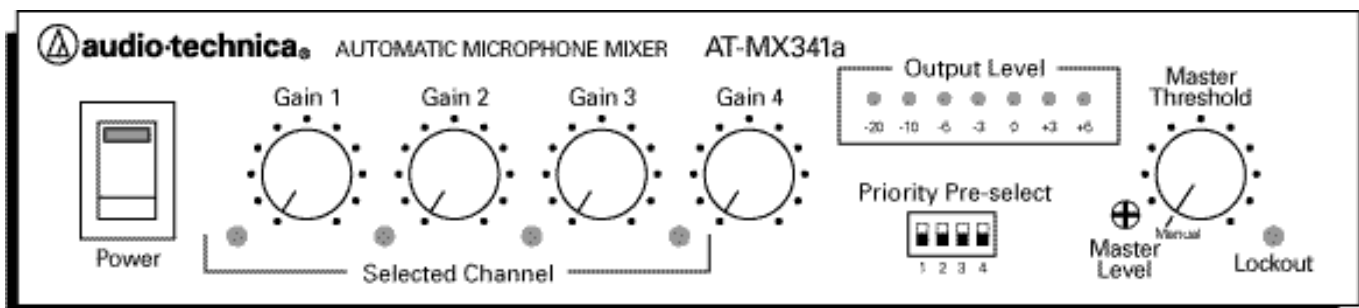
audio-technica.

SmartMixer®
Automatic Mixers
AT-MX341a SmartMixer®


The AT-MX341a automatic mixer is ideal for meetings, seminars, teleconferencing, worship services, 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 channels 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 Mic/Line inputs with individual priority pre-select switch for each channel
- Balanced inputs and output are individually switchable between mic and line-level
- Single threshold setting for all channels
- Individual gain controls for each channel
- Switchable manual mode overrides automatic functions
- Master output level control
- TTL logic output signals available to control speaker or camera switching, tally lights, etc.
- 12V phantom power individually selectable for each channel
- Off attenuation for each input adjustable to -20 dB
- Output level meter with Peak and RMS modes
- Mounts in a single 19" half-rack space
- Includes rack mount adapters

AT-MX341a Front Panel Details

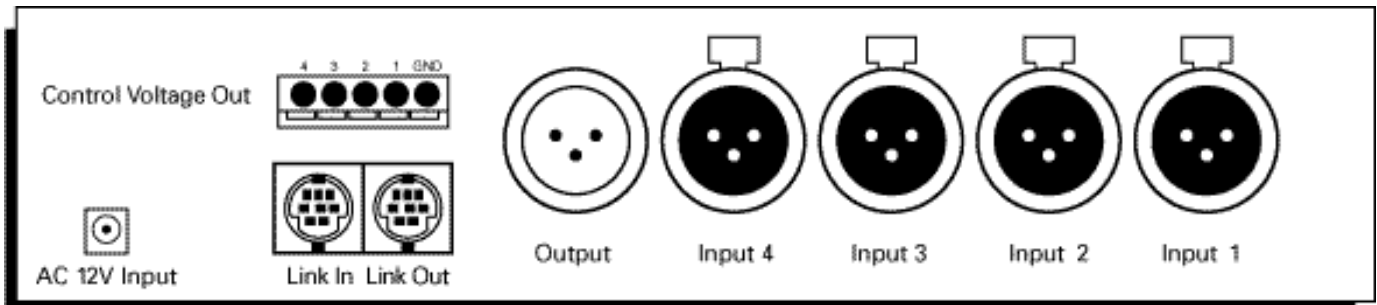


(left to right)

- **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.
- **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.
- **Master Level control.** Normal setting is fully clockwise (full output). May be adjusted to reduce the mixer output as necessary. (This control does not affect the meter indication.)
- **Master Threshold/Manual control.** Sets the reference level that must be exceeded for a microphone to be considered "in use." Adjust to keep background noise level from triggering microphones. "Manual" setting bypasses all of the SmartMixer's automatic functions.
- **Lockout LED indicator.** Lights when lockout bus is active. Also aids in setting Master Threshold.

AT-MX341a Rear Panel Details



(left to right)

- **Power input.** Requires 12 volts AC or 15 volts DC, either polarity; 150 mA minimum.
- **Control Voltage Out.** Provides 0 to +4 VDC (active high) to control circuits for functions such as speaker switching, camera switching and indicator lights.
- **Link In/Link Out.** Provides for daisy-chaining of multiple mixers when more than four microphones are used.
- **Output.** Balanced line-level output. Can be changed to mic-level output via internal switch. XLRM-type connector.
- **Inputs.** Balanced microphone inputs for low-impedance dynamic or condenser mics. Can be changed to line-level inputs via internal switches. XLRF-type connectors.

AT-MX341a Specifications

Input Impedance

Mic	4,000 ohms
Line	30,000 ohms

Output Impedance

Line	200 ohms
Mic	320 ohms

Maximum Input Level

Mic	-20 dBV
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Line	+30 dBV
Maximum Output Level*	
Line	+14 dBm (600 ohms)
Mic	-40 dBm (600 ohms)
Nominal Output Level (0 VU)	
*	
Line	+4 dBm (600 ohms), +4.4 dBV (open circuit)
Mic	-46 dBm (600 ohms), -44 dBV (open circuit)
Maximum Gain	≥ 70 dB
Frequency Response	60 Hz to 30 kHz at -3 dB points
Dynamic Range ¹	75 dB \pm 10 dB, dependent upon gain control settings
Equivalent Input Noise	-120 dBV (150 ohms) at maximum gain
Input Attenuation	10 dB
Mic/Line Input Pads	50 dB
Microphone Phantom Power	+12V DC
Control Voltage Out	+4V DC
Power Supply	12V AC, 150 mA, min.
Operating Temperature	32° to 104° F (0° to 40° C)
Dimensions	8.25" (210 mm) W x 9.38" (238 mm) D x 1.75" (44 mm) H (including feet, knobs and connectors)
Weight	3 lbs. 7 oz (1.6 kg)
Accessories Included	AC power supply, AT8325/1.0 Link Cable
Optional Accessory	AT8628 Double Rackmount Joining Plate
*Master Level control at maximum (fully clockwise)	

¹Input terminated with 150 ohms, A-weighted using Audio Precision System One

[Conditions and Warranty](#)

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