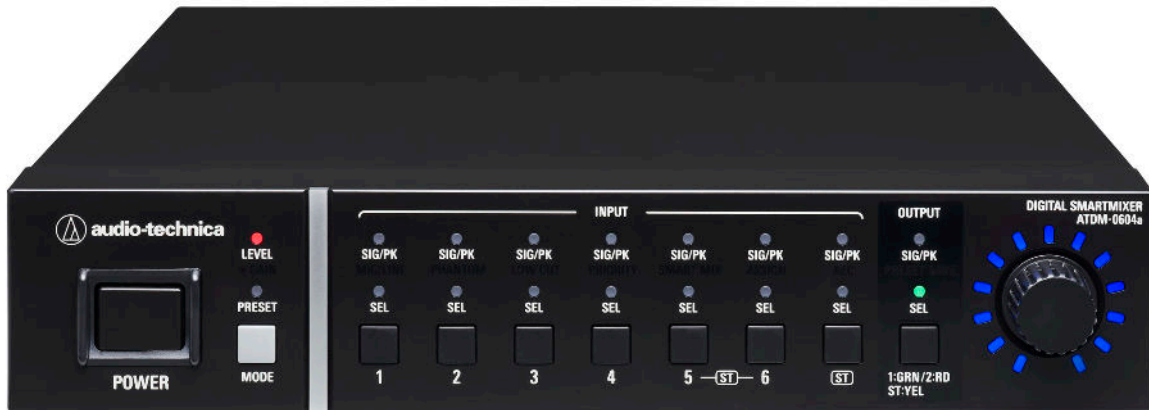# ATDM-0604a
Digital SmartMixer®
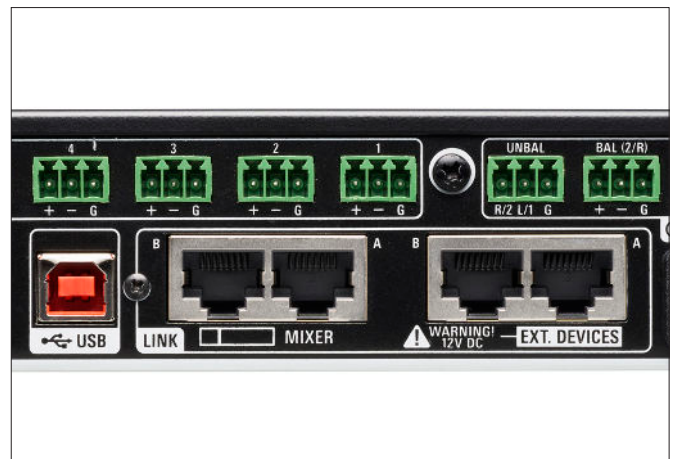

Overview

Introducing Audio-Technica's new ATDM-0604a Digital SmartMixer® with advanced functionality for use in a wide variety of applications, from meeting spaces to educational facilities. Incorporating user feedback, the enhanced functions of this model bring improved performance for online or live meetings. The main performance improvements and enhancements over the previous model are as follows:

- Improved echo and noise-cancellation performance

- Remote LED control of ES954 hanging microphone array via the GPO terminal

- Ability to cascade up to eight mixers, allowing them to share audio buses and SmartMix controls

- Expanded compatibility with a wide variety of Audio-Technica LINK-enabled products

- Mic/line level support for input channels 1 to 6

Features

- 6 mic/line inputs and 1 unbalanced stereo input

- 2 balanced outputs and 1 unbalanced stereo output

- USB audio input/output (1 stereo input, 1 stereo output)

- Remote LED control of ES954 hanging microphone arrays using the GPO terminal

- SmartMixer® with selectable gain sharing or gate mode

- High-performance echo canceler for each input channel

- Noise cancellation that can be assigned to any output channel

- Built-in 4-band EQ and compressor/de-esser for each input channel

- Eight 8-band feedback suppressors that can be assigned to mic/line inputs and any output channel

- Built-in 12-band PEQ, compressor, and limiter for each output channel

- Dedicated Audio-Technica LINK terminals, compatible with a wide variety of Audio-Technica LINK-enabled products

- Audio input/output settings can be configured from the front panel in applications where a computer is not available

- Advanced settings can be configured using the web browser or SmartMixer Manager app GUI in applications with a computer

- IP Protocol-based external remote control

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ATDM-0604a
Digital SmartMixer®

Audio

Frequency characteristics	20 Hz to 20 kHz (MIC -16 dBu): +1.0 / -1.0 dB 20 Hz to 20 kHz (MIC -60 dBu): +1.0 / -2.0 dB 20 Hz to 20 kHz (LINE 24 dBu): +1.0 / -1.0 dB 20 Hz to 20 kHz (LINE -40 dBu): +1.0 / -2.0 dB
Dynamic range	110 dB or higher, A-weighted/ST
S/N ratio	90 dB or higher, A-weighted/ST
Headroom	20 dB or higher
Input referred noise	-126 dBu or less, Rs = 150 ohm, DIN
Common-mode rejection ratio	80 dB or higher, 1 kHz
Residual noise	-86 dBu or less, A-weighted
Maximum gain	64 dB
Channel separation	-80 dB or less, 1 kHz unity
Total harmonic distortion	0.03% or less, 1 kHz unity
Analog input	MIC 1 to 6 max.: 0 dBu MIC 1 to 6 unity: -40 dBu LINE 1 to 4 max.: +10 dBV LINE 1 to 4 unity: -10 dBV LINE 5 to 6 max.: +24 dBu LINE 5 to 6 unity: +4 dBu / 0 dBV / -10 dBV / -20 dBV ST max.: +10 dBV ST unity: -10 dBV /-20 dBV
Analog output	UNBAL max.: +10 dBV / -13 dBV UNBAL unity: -10 dBV / -33 dBV BAL 1/L, 2/R max.: +24 dBu / +20 dBV / +10 dBV BAL 1/L, 2/R unity: +4 dBu / 0 dBV /-10 dBV

Specifications

Dynamic range / S/N ratio	100 to 240 V AC (50/60 Hz)
Power consumption	17 W
Operating temperature range	0 to 40°C (32 to 104°F)
Operating humidity range	25 to 85% (with no condensation)
Dimensions (including protrusions)	219.3 mm (8.6") ×346.3 mm (14") ×44 mm (1.7") (W x D x H)
Weight	1.89 kg (4.2 lbs)
Finish	Front panel: Black with silver lines op/rear/sides: Black

Other

Phantom power	+48V DC
PAD (Attenuation level)	-24 dB
I/O connector	INPUT ST: Euroblock connectors (3-pin) INPUT MIC/LINE 1 to 6: Euroblock connectors (3-pin) OUTPUT UNBAL: Euroblock connectors (3-pin) OUTPUT BAL 1/L, 2/R: Euroblock connectors (3-pin) GPO: Euroblock connectors (3-pin)
Level indicator	SIGNAL/PEAK: 1 point (Red/Yellow/Green) Peak indicate (red): -5 to 0 dB Peak hold time: 2 sec.
Remote control	IP protocol: RJ-45 × 1 pc IP address: 192.168.33.10 (factory default) Communication speed: 100 Mbps
Network	IP protocol: RJ-45 x 1 pc
Link I/O	Audio-Technica LINK: RJ-45 x 4 pcs Communication speed: 100 Mbps
USB Type B	Channel: Stereo input x 1 ch, stereo output x 1 ch (24-bit Communication speed: High-speed (480 Mbps)
A/D converter	Resolution: 24-bit Dynamic range: 115 dB
D/A converter	Resolution: 24-bit Dynamic range: 115 dB
Accessories	Euroblock connector x 11 Rack-mount (large, small) Rack-mount screw x 6 Power cable Rubber foot x 4

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