

## UniMix® 2-to-1 Microphone Combiner with Balance Control



### Features

- Combines the output from two microphones into one channel
- Continuously variable balance control
- Professional XLR-type input/output connectors
- Can be installed anywhere in-line, either at the mixer input or near the microphone
- 24V to 48V DC phantom power and balanced cables required for operation
- Permits phantom voltage to pass on to the microphone
- Rugged steel housing, compact size

### Description

The AT8681 UniMix® is part of the UniTools® group of phantom-powered in-line microphone accessories. It combines the output from two microphones into one channel. A continuously variable balance control allows the two input sources to be mixed. Applications for the UniMix® include expanding the input capacity of mixers, combining two microphones to send signal down a single cable where it is difficult to run a second cable, and combining microphones on similar instruments to minimize the number of cables on stage. Designed to operate with balanced audio lines, the UniMix® requires 24V to 48V DC phantom power and will pass phantom power to the connected microphones. Featuring a rugged steel housing and XLR-type input/output connectors, the UniMix® can be installed anywhere in-line, either at the mixer input or near the mic.

### Architect's and Engineer's Specifications

The phantom powered in-line microphone combiner shall allow for the outputs of two independent balanced line condenser or dynamic microphones to be combined into a single microphone level input. It shall incorporate a continuously variable mixing (balance) control to vary the mix of the two input sources. It shall have a frequency response of 20 Hz to 20,000 Hz and a unity gain. The combiner shall operate from an external 24V to 48V DC phantom power source and shall be capable of passing phantom power up to the connected microphones. Maximum input level for either input shall be +15 dBV (1% T.H.D. at 1 kHz) and the device shall have a self-noise of -115 dBV. Input impedance shall be 10,000 ohms and the output shall be low impedance balanced (250 ohms). Inputs and outputs shall be via standard 3-pin XLR-type balanced connectors. The unit shall be 130.0 mm (5.12") wide, and 60.0 mm (2.36") deep, and 44.0 mm (1.73") high. Weight shall be 250 grams (8.8 oz). Construction shall be of metal with a black finish. All connections and controls shall be located on the top panel and labeled as to function. Mounting tabs with screw holes shall be provided for attaching the unit to a vertical or horizontal surface.

The Audio-Technica AT8681 is specified.

### Specifications

Input/Output connectors	XLR/XLRM-type
Phantom power	24-48V DC, 2-4 mA typical
Frequency response	20-20,000 Hz
Gain	Unity (0 dB), +0/-1.5 dB
Input impedance	10,000 ohms
Output impedance	250 ohms
Maximum input level	+15 dBV (1% T.H.D. at 1 kHz)
Maximum attenuation	33 dB at 1 kHz
Noise (A-weighted)	-115 dBV typical
Weight	250 g (8.8 oz) typical
Dimensions	130.0 mm (5.12") W x 60.0 mm (2.36") D x 44.0 mm (1.73") H typical
Notes	UniMix® specifications measured at 48V phantom power, 150 ohms input load and 100,000 ohms output load.

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

Specifications are subject to change without notice.



Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224  
 Audio-Technica Limited, Old Lane, Leeds LS11 8AG England  
 ©2010 Audio-Technica U.S., Inc. audio-technica.com