

Engineered Sound®

[Description]

The ES995 is a dual-element cardioid condenser microphone with an integral dual power module. It is designed especially for applications requiring separate miking for PA and broadcast. The circuit grounds for each channel are completely isolated, greatly reducing the potential for hum. The rigid pipe design with ball-in-socket base permits flexible positioning.

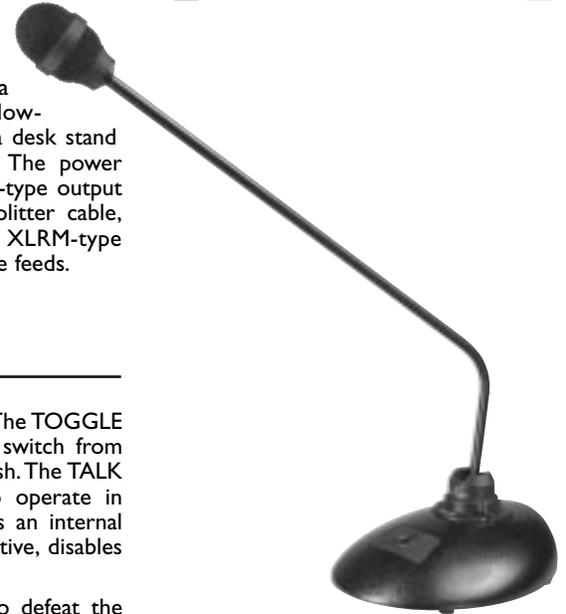
Each of the cardioid elements in the microphone is shock mounted. The cardioid polar pattern of the elements provides a 120° angle of acceptance. Additional user-interchangeable hypercardioid (100°) and omnidirectional (360°) elements are available. The ES995 is designed with dual integral wind-screens to ensure maximum security against wind noise and plosives.

The integral power module can be powered from any external 11V to 52V DC phantom power supply. Low-frequency roll-off (120 Hz, 12

dB/octave) is integral to the microphone's design. The microphone also includes a mute switch with three modes (push-to-mute, toggle, and push-to-talk) and LED indicator light. Mute switching is made possible using optical coupling, which prevents the two elements' signal paths from contacting one another physically, alleviating conflicting grounds. A 15 dB pad switch is housed in the base.

The microphone is enclosed in a sturdy metal housing with a low-reflectance black finish. Its base is a desk stand with integral dual power module. The power module has a Neutrik 6-pin XLRM-type output connector; use the included 30' splitter cable, which terminates in two 3-pin XLRM-type connectors, for in-house and remote feeds.

ES995
Dual-element
Cardioid Condenser
Rigid-pipe Microphone



[Installation and Operation]

The ES995 requires a phantom power supply of 11–52V DC for each element. Output is low-impedance balanced. The balanced signal appears across Pins 2 and 3, while the ground (shield) connection is Pin 1. Output is phased so that positive acoustic pressure produces positive voltage at Pin 2, in accordance with industry convention.

The microphone is intended for use on a flat surface. The 30' splitter cable can then be connected to the 6-pin XLRM-type output on the power module. This cable terminates in two 3-pin XLRM-type connectors, which can be connected to in-house and/or remote feeds. Connect the red output (Channel A) to the primary in-house feed. Connect the blue output (Channel B) to the remote feed.

ATTENTION! For muting to operate, Channel A must be connected. If only Channel B output is used, the microphone element will operate, but the mute function will not.

The pad switch (SW1) and mode switch (SW2) are located on the circuit board, housed in the base of the microphone. To access the circuit board, loosen the four screws and remove the protective plate. SW1 may be set to Normal or 15 dB Pad. SW2 may be set to Mute, Toggle or Talk. The MUTE setting causes the microphone

to operate in push-to-mute mode. The TOGGLE setting causes the microphone to switch from on to off with each consecutive push. The TALK setting causes the microphone to operate in push-to-talk mode. Also included is an internal defeat switch (SW3) that, when active, disables the external mute switch.

ATTENTION! If using SW3 to defeat the mute (SW3 in OFF position), make certain that SW2 is in the MUTE position. If SW2 is in either the TOGGLE or TALK position, the microphone elements will not operate.

If desired, the mute switch can be removed by accessing the circuit board, unplugging the ribbon cable, and peeling the switch off the base. For the mic to remain open, SW2 must be set to the MUTE position. A switch cover label is included to dress the switch plate. The switch is not designed to be easily removed and reinstalled, however; if reinstalled, it must be glued on.

While a modern condenser microphone is not unduly sensitive to the environment, temperature extremes can be harmful. Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for long periods of time. Extremely high humidity should also be avoided.



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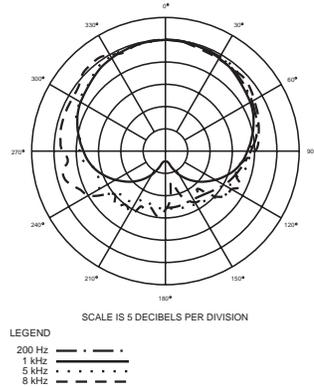
[ES995 Specifications†]

Elements	Two fixed-charge back plate permanently polarized condensers
Polar Pattern	Cardioid
Frequency Response	90–15,000 Hz
Low-frequency Roll-off	Fixed 120 Hz, 12 dB/octave
Open Circuit Sensitivity	–41 dB (8.9 mV) re 1V at 1 Pa*
Impedance	250 ohms
Maximum Input Sound Level	138 dB SPL, 1 kHz at 1% T.H.D.
Dynamic Range (Typical)	109 dB, 1 kHz at Max SPL
Signal-to-noise Ratio¹	65 dB, 1 kHz at 1 Pa*
Switches (on circuit board)	SW1: Normal/–15 dB; SW2: Mute/ Toggle/Talk; SW3: Off/On
Phantom Power Requirements	11–52V DC, 3 mA typical
Weight	3.31 lb (1.5 kg)

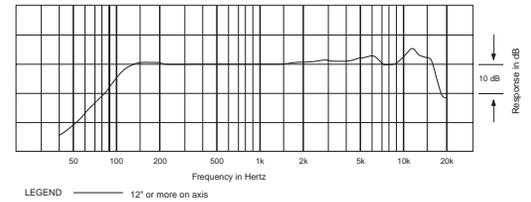
Dimensions	19.51" (495.6 mm) maximum length, 1.51" (38.4 mm) maximum head diameter
Output Connector	Integral 6-pin Neutrik XLRM
Cable	30' (9.1 m) 6-conductor shielded "Y" cable–6-pin XLRF to two 3-pin XLRM
Accessory Furnished	Switch cover label
Optional Interchangeable Elements	ESE-H hypercardioid (100°) ESE-O omnidirectional (360°)

† In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.
* 1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL
¹ Typical, A-weighted, using Audio Precision System One.
Specifications are subject to change without notice.

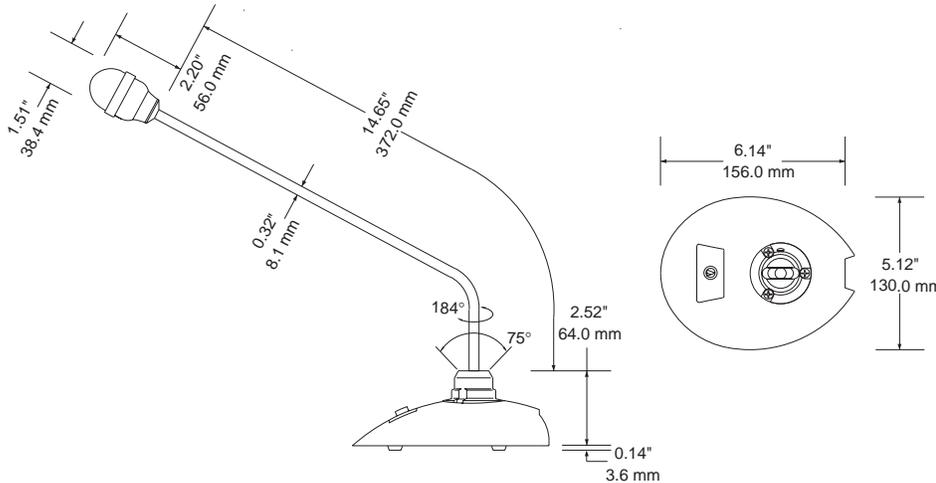
[Polar Pattern]



[Frequency Response]



[Dimensions]



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One-Year Limited Warranty

Audio-Technica microphones and accessories purchased in the U.S.A. are warranted for one year from date of purchase by Audio-Technica U.S., Inc. (A.T.U.S.) to be free of defects in materials and workmanship. In event of such defect, product will be repaired promptly without charge or, at our option, replaced with a new product of equal or superior value if delivered to A.T.U.S. or an Authorized Service Center, prepaid, together with the sales slip or other proof of purchase date. **Prior approval from A.T.U.S. is required for return.** This warranty excludes defects due to normal wear, abuse, shipping damage, or failure to use product in accordance with instructions. This warranty is void in the event of unauthorized repair or modification.

For return approval and shipping information, contact the Service Department, Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224.

Except to the extent precluded by applicable state law, **A.T.U.S. will have no liability for any consequential, incidental, or special damages; any warranty of merchantability or fitness for particular purpose expires when this warranty expires.**

This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

Outside the U.S.A., please contact your local dealer for warranty details.

[Architects and Engineers Specifications]

The microphone shall be a dual-element, fixed-charge condenser with a frequency response of 90 Hz to 15,000 Hz and a cardioid polar pattern with uniform 120° angle of acceptance. It shall contain two shock-mounted cardioid elements with isolated grounds. It shall operate from an external 11V to 52V DC phantom power source. It shall be capable of handling sound input levels up to 138 dB with a dynamic range of 109 dB. It shall have a fixed low-frequency roll-off of 120 Hz, 12 dB/octave. Output shall be low-impedance balanced (250 ohms).

The microphone shall be a small-diameter, rigid-pipe design with pivoting ball-in-socket arrangement and lighted mute switch. The microphone shall have an integral dual power module with 6-pin XLRM-type connector for use with the included 30' splitter cable. The cable shall connect to the microphone by a 6-pin XLRF-type connector and shall terminate in two 3-pin XLRM-type connectors. The power module shall include a 15 dB pad switch, three-mode mute switch, and defeat switch.

The microphone's overall length shall be 19.51" (495.6 mm). Head diameter shall be 1.51" (38.4 mm). The microphone assembly (less cable) shall weigh 3.31 lb (1.5 kg). Finish shall be low-reflectance black.

The Audio-Technica ES995 is specified.



Audio-Technica U.S., Inc.

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