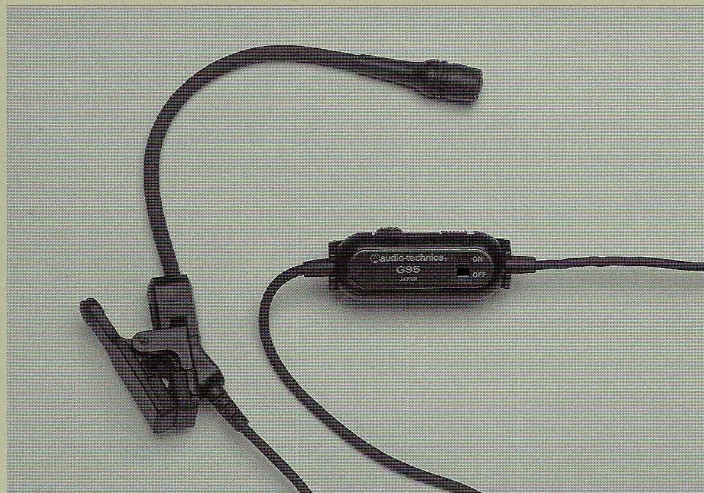


PRO 95

ACOUSTIC INSTRUMENT CONDENSER MICROPHONE

Pro Series

M I C R O P H O N E S



Description

The PRO 95 is a wide-range fixed-charge condenser microphone with a cardioid polar pattern. It has been designed for use by professional musicians, especially for reproduction of acoustic guitar and other string instruments. The microphone provides sound pickup that is crisp and clean, yet full sounding, while isolation from other instruments and gain-before-feedback are significantly improved over that of omnidirectional microphones. Extra care in design and construction ensures dependable long life coupled with fine performance.

The PRO 95 is uniquely capable of being mounted inside a guitar. A "rubber-grip" spring clamp holds the microphone securely to the instrument without marring the surface. The flexible boom permits aiming the microphone in any direction, while a cable strain relief reduces cable-transmitted noise and the possibility of cable damage.

Audio-Technica design engineers have utilized the newest low-mass technology in the quest for superior performance. The permanent charge is now on the fixed back plate, rather than the moving element. With A-T fixed charge "back plate" construction, a gold-vaporized diaphragm just 4 microns thick (or about 0.000157") can be used. This reduces moving mass, thus improving frequency response and transient response while reducing distortion. The result is remarkable stability of performance.

A 1.5V LR44-type battery is required to power the microphone. Current demands are low, and a battery should provide approximately 400 hours of continuous use. Output is 2000 ohms unbalanced. The standard 1/4" phone plug is designed to plug directly into a mixer, amplifier or other electronic device.

The microphone element is enclosed in a rugged housing with a low-reflectance finish.

The PRO 95 is permanently connected to an ultra-flexible 24' (7.3 m) cable. A permanently-attached in-line power module with an on/off switch is located 4.4' (1.35 m) up the cable from the microphone. A clip for the power module and a battery are provided, as well as an accessory windscreen. In addition, an end-pin jack and 1/4" phone plug, required for optional permanent installation inside a guitar, are included.

Operation and Maintenance

The PRO 95 is designed for battery use only, and cannot be used with phantom power. The battery compartment is located on top of the power module, next to a spring-loaded catch. While facing the label, slide the catch to the right and hold it in place. Now press on the raised "button," rotating it down and to the left so the battery drawer swings out. Insert the battery, being certain to observe battery polarity as marked ("+" side facing the front). The on/off switch controls both battery current and microphone output and should remain off except when the microphone is in use.

For temporary installation of the PRO 95, remove and/or loosen as many strings as necessary to gain access to the inside of the guitar. Clip the microphone to the crossbrace located immediately behind the sound hole. Adjust the flexible boom to orient the mic for the desired sound. For best feedback rejection, aim the mic away from the strings, pointing into the guitar. The cable should exit the bottom of the sound hole with the power module clipped to the guitar strap or any convenient place, maintaining some slack between the module and the mic boom connection.

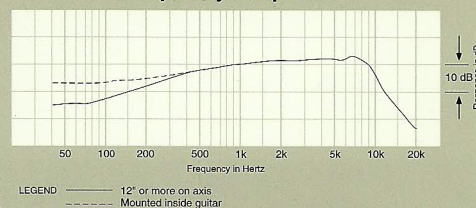
The microphone can be permanently installed inside a guitar using the provided 1/4" end-pin jack and phone plug. Consult your dealer's service department or a qualified guitar technician for assistance.

An open-pore foam windscreen simply slips over the head of the microphone to reduce wind noise when used outdoors. It also helps shield the element against accidental damage.

The high sensitivity of the PRO 95 assures useful output and an excellent match to most mixer, tape recorder and amplifier inputs. However, the microphone's high output may overload sensitive electronic input stages. Many pre-amps, mixers and other electronics include a mic pad or input attenuator switch which may be used to prevent overload.

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

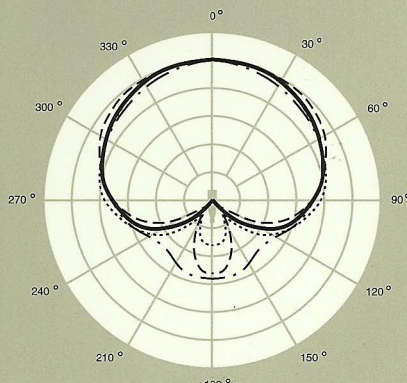
Frequency Response



audio-technica

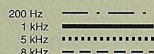
PRO 95

Polar Pattern

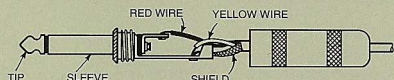


SCALE IS 5 DECIBELS PER DIVISION

LEGEND



1/8" Phone Plug Wiring Low Impedance Unbalanced



PRO 95 SPECIFICATIONS†

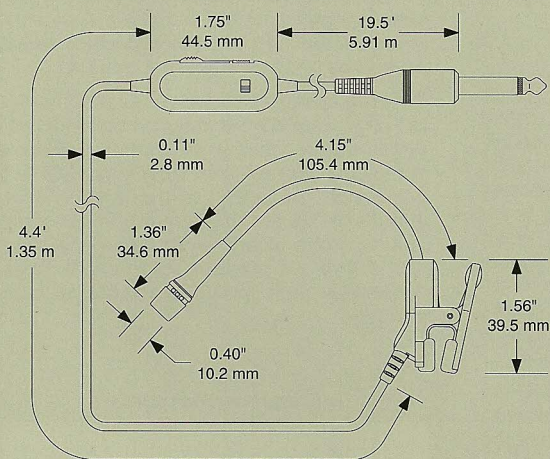
Element	Fixed-charge back plate permanently polarized condenser
Polar Pattern	Cardioid
Frequency Response	80-13,000 Hz
Open Circuit Sensitivity	-40 dB (10.0 mV) re 1V at 1 Pa*
Impedance	2000 ohms
Maximum Input Sound Level	105 dB SPL, 1 kHz at 1% T.H.D.
Signal-to-noise Ratio†	56 dB, 1 kHz at 1 Pa*
Dynamic Range (Typical)	67 dB, 1 kHz at Max SPL
Battery	1.5V LR44-type
Battery Current	0.4 mA typical
Battery Life (Typical)	400 hours, continuous use
Weight (without cable)	3.4 oz (95 grams)
Dimensions	
Microphone	1.36" (34.6 mm) long, 0.40" (10.2 mm) head diameter, 4.15" (105.4 mm) flexible boom
Power Module	1.75" (44.5 mm) L x 0.71" (18.0 mm) W x 0.46" (11.7 mm) H
Output Connector.....	1/4" phone plug
Cable.....	24' (7.3 m) long, 0.11" (2.8 mm) diameter miniature audio cable with an in-line G95 power module, permanently attached to the microphone and terminated with a 1/4" phone plug
Accessories Furnished	Windscreen; power module clip; battery; end-pin jack and 1/4" phone plug

† 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

† Typical, A-weighted, using Audio Precision System One

Dimensions



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.



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