PRO 70 *CARDIOID CONDENSER LAVALIER/INSTRUMENT MICROPHONE*

PRO SERIES MICROPHONES

- Provides articulate, full-sounding voice and instrument pickup
- Excels in pickup of acoustic guitar with included AT8444 guitar mount
- Switchable low-frequency roll-off
- Corrosion-resistant contacts from gold-plated XLRM-type connector
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- Operates on battery or phantom power

For use as a lavalier, attach the microphone about six inches below the chin. Anticipate movements that may cause the microphone to rub against or be covered by clothing, and position the microphone to avoid it.

The PRO 70 requires 11-52V DC phantom power, *or* a 1.5V AA battery for operation. A battery need not be in place for phantom power operation.

Battery installation: Remove the cap from the top of the power module. Insert a fresh 1.5V AA battery ("+" end toward the cap release button), then reassemble the power module. Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

Output from the power module's XLRM-type connector is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot" – positive acoustic pressure produces positive voltage at Pin 2.

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

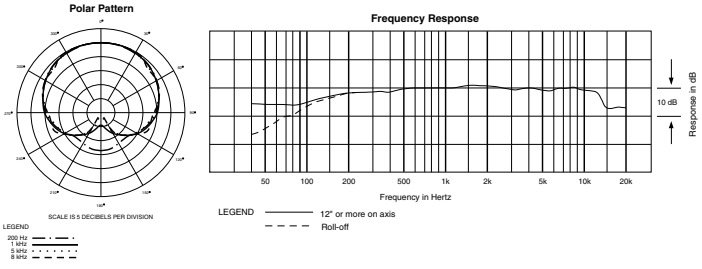
An integral 80 Hz high-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

PRO 70 SPECIFICATIONS†

ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	100-14,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 8 dB/octave
OPEN CIRCUIT SENSITIVITY (Phantom / Battery)	–45 dB (5.6 mV) / –45 dB (5.6 mV) re 1V at 1 Pa*
IMPEDANCE (Phantom / Battery)	200 ohms / 200 ohms
MAXIMUM INPUT SOUND LEVEL (Phantom / Battery)	123 dB / 123 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical) (Phantom / Battery)	96 dB / 96 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO[1]	67 dB, 1 kHz at 1 Pa*
PHANTOM POWER REQUIREMENTS	11-52V DC, 2 mA typical
BATTERY TYPE	1.5V AA/UM3
BATTERY CURRENT / LIFE	0.4 mA / 1200 hours typical (alkaline)
SWITCH	Off, on-flat, on-roll-off
WEIGHT (less cable and accessories)	
MICROPHONE	0.3 oz (8 g)
POWER MODULE	4.7 oz (134 g)
DIMENSIONS	
MICROPHONE	0.98" (25.0 mm) long, 0.40" (10.2 mm) diameter
POWER MODULE	3.27" (83.0 mm) H x 2.48" (63.0 mm) W x 0.87" (22.0 mm) D
OUTPUT CONNECTOR (power module)	Integral 3-pin XLRM-type
CABLE	Integral 6' (1.8 m), permanently attached between microphone and power module
ACCESSORIES FURNISHED	AT8411 clothing clip; AT8444 instrument adapter; power module; windscreen; battery; soft protective pouch

†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/cm^2 = 10 microbars = 94 dB SPL
[1] Typical, A-weighted, using Audio Precision System One.
Specifications are subject to change without notice.



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