

ATM75 CARDIOID CONDENSER HEADWORN MICROPHONE

ARTIST SERIES



- Professional-quality vocal pickup with hands-free operation
- Low-visibility headband provides stable, comfortable fit
- Pivot-mounted flexible mic boom descends from left or right side
- Belt-mounted power module operates on battery or phantom power
- Cardioid polar pattern improves isolation of desired sound source
- Also available as: ATM75cW – less power module; 55" (1.4 m) cable terminated with locking 4-pin connector for A-T UniPak™ wireless systems

The ATM75 requires 11V to 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.

An integral 80 Hz high-pass UniSteep® filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the microphone's sensitivity to popping in close vocal use. It also reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

For maximum stability and minimum visibility, the adjustable headband should be worn around the back of the head, with each cushioned support pad resting on the temple in front of the ear. The cable should remain clipped to the headband, with some slack at the boom connection.

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.

ATM75 SPECIFICATIONS*

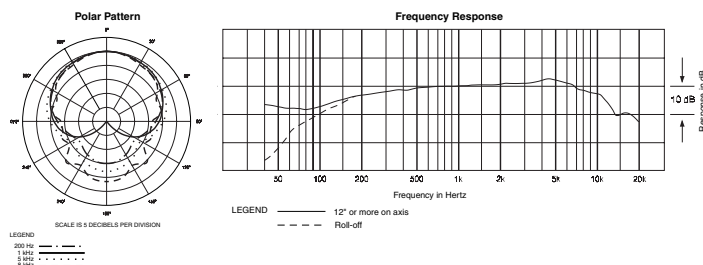
ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	100-13,000 Hz
LOW FREQUENCY ROLL-OFF	80 Hz, 18 dB/octave
OPEN CIRCUIT SENSITIVITY (Phantom / Battery)	-51 dB (2.8 mV) / -53 dB (2.2 mV) re 1V at 1 Pa*
IMPEDANCE (Phantom / Battery)	200 ohms / 270 ohms
MAXIMUM INPUT SOUND LEVEL (Phantom / Battery)	132 dB / 121 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical) (Phantom / Battery)	96 dB / 85 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO [†]	58 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	
MICROPHONE	2.1 oz (60 g)
POWER MODULE	4.9 oz (139 g)
DIMENSIONS	
HEADSET	4.72" (120.0 mm) nominal at widest point, 3.17" (80.5 mm) flexible boom
MICROPHONE	0.80" (20.4 mm) diameter
POWER MODULE	3.31" (84.0 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	4.6' (1.4 m) long (permanently attached to microphone), 0.11" (2.8 mm) diameter, 2-conductor shielded cable with TA3F-type connector
ACCESSORIES FURNISHED	AT8531 power module; AT8439 clothing clip; AT8139L large windscreen; AT8139S small windscreen; battery

[†]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.

Specifications are subject to change without notice.



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