ProSeries

CARDIOIDMOVINGCOIL

M | C | R O P | H O N

DYNAMIC MICROPHONE

Description

The Audio-Technica Model PRO 2ax is a moving coil dynamic microphone designed specifically for close-up vocal and instrumental use. Despite its modest cost, the PRO 2ax offers unusually smooth response and uniform off-axis rejection of unwanted sound due to its cardioid (unidirectional) pickup pattern. Extra care in design and construction ensures dependable long life and consistent high quality. The PRO 2ax features an unbalanced (single conductor plus shield) universal impedance output for direct plug-in to most amplifiers and mixers.

The cardioid pickup pattern of the PRO 2ax is useful in reducing unwanted background noise and controlling feedback, especially when used extremely close. Miking instruments or vocalists at very close range also effectively reduces "leakage" from one performer to the next. Low frequency noise is reduced by a low frequency roll-off of sounds more than one foot distant from the microphone.

When used close-up, as intended, bass response of the PRO 2ax increases because of proximity effect. This characteristic adds a mellow sound to both voice and instruments. The low frequency response of the PRO 2ax has been carefully selected to provide the ideal range of proximity effect when used at close range by vocalists.

The relatively high sensitivity of the PRO 2ax is the result of a low-mass diaphragm and voice coil assembly operating in a high efficiency magnetic circuit. This assures excellent signalto-noise ratios with microphone mixers, tape recorders, and other inputs. The PRO 2ax is capable of undistorted output even in rather intense sound fields. In some cases, however, an attenuator may be required between the microphone and the amplifier input to avoid overloading sensitive input stages.

The Model PRO 2ax is enclosed in a rugged housing with a low-reflectance matte finish. A 2-stage ball-type screen reduces wind noise and "popping" when performers work extremely close. An on-off switch is also provided. The shielded, single-conductor cable is terminated with an XLRF-type connector at the microphone end, and a standard 1/4" phone plug at the equipment end. The tapered slip-in microphone clamp permits mounting on any microphone stand with 5/4"-27 threads.

Operation and Maintenance

The output of the Audio-Technica PRO 2ax is 8,000 ohms unbalanced. The standard ¼" phone plug is designed to plug directly into the microphone input of any mixer, amplifier or other electronics.

If it becomes necessary to replace the plug, note that the outer shield should be attached to the sleeve portion of a standard ¼" plug, while the inner conductor goes to the tip of the connector (see the phone plug pictorial diagram on the other side). In accordance with industry convention, positive acoustic pressure at the diaphragm produces a positive voltage at the phone plug tip.

While every effort has been made to provide an extremely rugged microphone, reasonable care should be taken to avoid abuse. The microphone can withstand a wide range of temperatures and humidity without damage. Care should be observed to keep foreign particles from entering the windscreen. If exposed to an environment with small iron or steel filings (on a workbench, for example) these fine metal particles can accumulate on the diaphragm and reduce low frequency response. Excessive accumulation of dirt on the windscreen will reduce high frequency response.

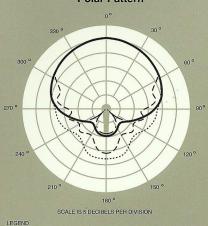
Frequency Response





0 2ax

Polar Pattern



PRO 2ax SPECIFICATIONS†

I IIO Lax of Lon IoA Hono	
Element	N
Polar Pattern	C
Frequency Response	7
Open Circuit Sensitivity	_
Impedance	8
Weight (less cable and clamp)	5
Dimensions	5 d ta
Cable	1
	ja
Accessory Furnished	S

Moving Coil Dynamic

Cardioid (Unidirectional)

0-14,000 Hz

44 dB (6.3 mV) re 1V at 1 Pa*

,000 ohms

.1 oz (145 grams)

.83" (148.0 mm) long, 2.13" (54.0 mm) head liameter, 1.34" to 0.85" (34.0 mm to 21.6 mm) apered body diameter.

6.5' (5 m) single-conductor, shielded, vinylacketed, with $^{1}/_{4}$ " phone plug on output end.

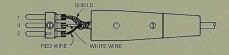
lip-in clamp

- † 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

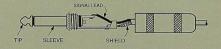
Dimensions



XLRM-type Plug Wiring **Balanced Cable**



1/4" Phone Plug Wiring



Optional Accessories:

AT8114 foam windscreen (slip-on).

AT8312 2-conductor, shielded, vinyl-jacketed, broadcast-type cable with XLRF-type connector at microphone end, 1/4" phone plug at equipment end. Available in 10', 20' & 25' lengths.

AT8314 2-conductor, shielded, vinyl-jacketed, broadcast-type cable with XLRF-type connector at microphone end, XLRM-type connector at equipment end. Available in 10', 20', 25', 30', 50' & 100' lengths.

AT8407 universal "clothes-pin" stand clamp fits both tapered and cylindrical microphones.

AT8410a shock mount for boom or stand operation. Universal "clothes-pin" clamp fits tapered and cylindrical microphones.

AT8415 shock mount for boom or stand operation.

One-Year Limited Warranty

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 applies. 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.

