PRO 31 cardioid dynamic microphone





- · Designed for close-up vocal use
- Silent on-off operation thanks to MagnaLock[™] switch design
- Hi-ENERGY[®] neodymium magnet for improved output and transient response
- Two-stage ball-type screen reduces wind noise and "popping" during close use
- Corrosion-resistant contacts from gold-plated XLRM-type connectors
- · Rugged design and construction for reliable performance
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source

Output from the microphone'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.

Plug Type	Ground	Audio "+"	Audio "–"
XLR	Pin 1	Pin 2	Pin 3
1/4" "TRS"	Sleeve	Tip	Ring
¹ / ₄ "	Sleeve	Тір	Sleeve

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc. For a high-impedance (Hi-Z) mic input, connect a Lo-Z balanced cable to a Hi-Z matching transformer (A-T CP8201 or equal) at the equipment input.

When using the PRO 31 in settings with a stage monitor speaker, the speaker should be located 180° off axis (at the rear of the microphone). This placement, in conjunction with the microphone's uniform cardioid pickup pattern, will virtually eliminate the possibility of undesired audio feedback.

The PRO 31 utilizes a MagnaLock on/off switch. This specially designed switch operates silently and may be locked in the "on" position to prevent accidental turn-off during use. To lock, slide the switch up into the "on" position (Fig. 1a). Using a small flat-head screwdriver, rotate the small screw in the center of the switch 90 degrees ($\frac{1}{4}$ turn) counter-clockwise (Fig. 1b). Never force the screw. When the screw slot position is horizontal ("across" the microphone body), the switch is locked. To unlock the switch, turn the screw 90 degrees clockwise until the screw slot position is again vertical (in line with the microphone body). Never try to turn the switch more than 90 degrees or $\frac{1}{4}$ rotation. The switch may only be locked in the "off" position.

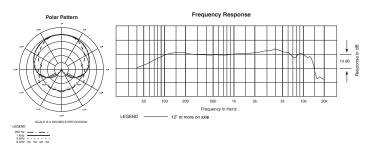
Take care to keep foreign particles from entering the windscreen. An accumulation of iron or steel filings on the diaphragm, and/or foreign material in the windscreen's mesh surface, can degrade performance.

	PRO 31	SPECIFICATIONS [†]	
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Dynamic	
Cardioid	
60-13,000 Hz	
–55 dB (1.7 mV) re 1V at 1 Pa*	
600 ohms	
MagnaLock™ on/off	
11.0 oz (312 g)	
7.28" (185.0 mm) long, 2.09" (53.1 mm) head diameter	
Integral 3-pin XLRM-type	
15.0' (4.5 m) cable with XLRF-type connector at microphone end, XLRM-type connector at equipment end	
AT8470 Quiet-Flex [™] stand clamp for ⁵ /s ⁿ -27 threaded stands; ⁵ /s ⁿ -27 to ⁵ /s ⁿ -16 threaded adapter; 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/cm² = 10 microbars = 94 dB SPL

Specifications are subject to change without notice.





Unlocked

Fig. 1a

Do *not* turn

screw clockwise

to lock

Fig.1c





Locked

Position



Fig. 1d



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