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.

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.

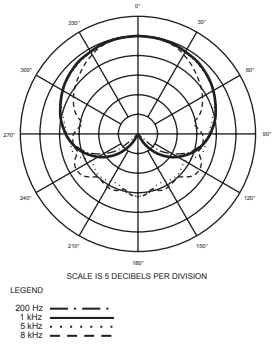
The PRO 31 utilizes a MagnaLock on/off switch. This specially designed switch operates silently and may be locked in the “on” position to prevent accidental turn-off during use. To lock, slide the switch up into the “on” position (Fig. 1a). Using a small flat-head screwdriver, rotate the small screw in the center of the switch 90 degrees (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 1/4 rotation. The switch may only be locked in the “on” position. Do not try to turn the screw when the switch is 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.

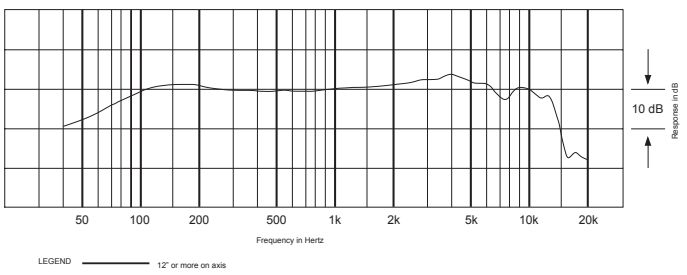
SPECIFICATIONS

ELEMENT	Dynamic
POLAR PATTERN	Cardioid
FREQUENCY RESPONSE	60-13,000 Hz
OPEN CIRCUIT SENSITIVITY	-55 dB (1.7 mV) re 1V at 1 Pa
IMPEDANCE	600 ohms
SWITCH	MagnaLock™ on/off
WEIGHT (less cable and accessories)	312 g
DIMENSIONS	185.0 mm - long, 53.1 mm - head diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
CABLE	4.5m cable with XLRF-type connector at microphone and, XLRM-type connector at equipment
ACCESSORIES FURNISHED	AT8470 Quiet-Flex™ stand clamp for ⅝”-27 threaded stand; ⅝”-27 to ⅜”-16 threaded adapter; Soft protective pouch

Polar Pattern



Frequency Response



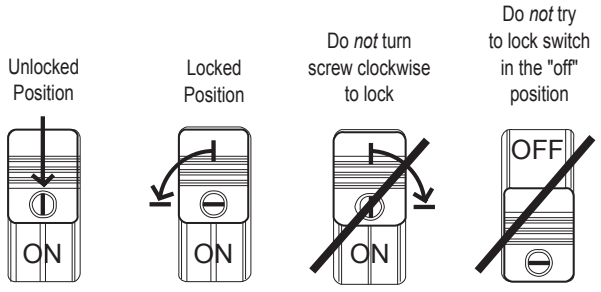


Fig. 1a Fig. 1b Fig. 1c Fig. 1d

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FORM No. ATGC-L0019-06-E

PRO 31

PRO SERIES MICROPHONES

心形指向性动圈话筒

- 设计于人声话音收音之用。

- 设有静音开关操作的 MagnaLock™ 磁控开关键。

- Hi-ENERGY® 高能量钕硼磁铁，提供更大输出及音质透明度。

- 双层球形防风罩，可减低空气噪声及人声收音时的喷气声。

- 抗腐蚀的镀金卡农接点，可保持良好的导电效能。

- 坚固耐用的设计，提供可靠的表现。

- 心形指向性设计，减低旁边及后方的噪声干扰，提高收音目标的隔离度。

话筒的XLRM卡农输出端为低阻抗平衡输出，话筒音频信号最终以卡农公头的2号及3号针脚输出，而1号针脚则为地线(屏蔽)连接。输出相位将以正相位电平设于2号针脚上。

为澠免出现相位相互抵消而失真的情况，所有话筒连接时，接线必需以1-1，2-2，3-3型式把针脚连接。如连接高阻抗的话筒输入，请配套阻抗匹配变压器AT8201。

当PRO31话筒及现场监听音箱同时使用时，需要把音箱放置于话筒的180°后方。在这位置上，由于话筒的心形指向性设计，可减低出现反馈回声的情况。

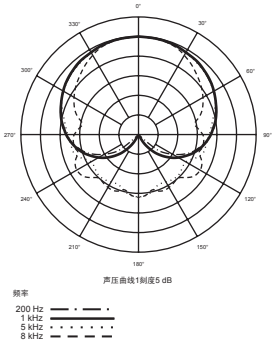
PRO31话筒设有MagnaLock磁控开关键，可宁静开关收音及可在开启后锁定开关，避免使用时不小心关闭话筒。在锁定时，把开关推到开启位置(图1a)，使用小螺丝刀把螺丝反时针旋转90°后(图1b)，不要大力过度旋转，当螺丝在水平位置时开关便锁定；反旋转90°后便开启锁定。不要旋转超过90°，亦不要在关闭位置时锁定。

小心不要把金属碎或铁屑掉进防风罩内，铁屑会吸进收音头磁铁中，或贴在防风罩内，将会影响及减低收音效果。

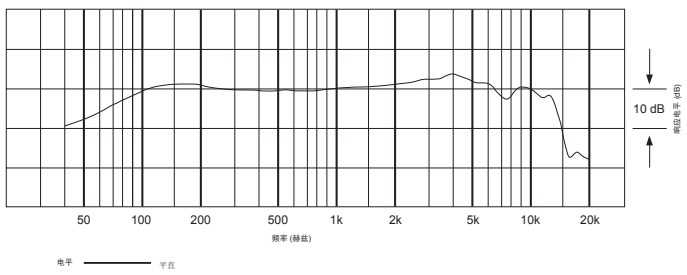
技术指标

收音头	动圈式
指向特性	心形指向性
频率响应	60-13,000 Hz
开通灵敏度	-55 dB (1.7 mV) 以 1V 于 1 Pa
输出阻抗	600 欧姆
开关	MagnaLock™ 磁控开关
重量(不带连线与配件)	312 克
外形尺寸	185.0 mm - 长度, 53.1 mm - 防风罩直径
输出连接器	内置 XLRM-3针卡农公头
连线	4.5m 长 XLRM至 XLRF连接线
附属品	AT8470 Quiet-Flex™ - ⅝"-27接头话筒夹， ⅝"-27至⅜"-16转接头，保護袋。

指向特性



频率特性



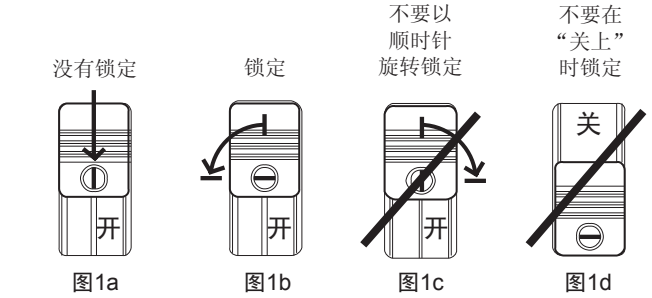


图1a 图1b 图1c 图1d

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