

CARDIOID CONDENSER BOUNDARY MICROPHONE



- Designed for surface-mount applications such as high-quality sound reinforcement, professional recording, television, conferencing and other demanding sound pickup situations.
- PivotPoint™ rotating output connector allows cable to exit from either the rear or the bottom of the microphone.
- Superior off-axis rejection for maximum gain before feedback.
- UniGuard™ RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI).

- Small-diameter UniPoint capsule near boundary eliminates phase distortion and delivers clear, high-output performance.
- Heavy die-cast case and non-slip silicon foam bottom pads minimize coupling of surface vibration to the microphone.
- UniSteep® sound pickup without affecting voice quality on U851A power module.
- U851A can be operating on battery or phantom power.
- U851R has contained electronics eliminate need for external power module.
- Available in two colors: black (U851A / U851R) and white (U851RW).

The U851A 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.

Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

The U851R requires 11V to 52V phantom power for operation only.

Supplied as a cardioid, U851A / U851R / U851RW accepts interchangeable elements to permit selection of angle of acceptance from 100° to 360°.

The microphone should be placed on a flat, unobstructed mounting surface, with the front of the microphone facing the sound source. The sound source should not be below, or high than 60° above, the plane of the mounting surface.

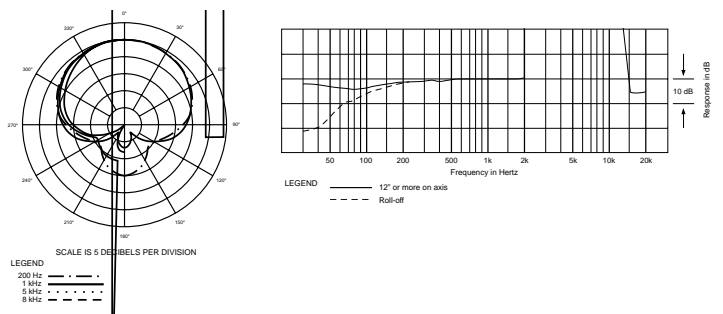
Output from XLRM-type connector is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot" - positive acoustic pressure produces positive voltage at Pin 2.

At integral 80 Hz high-pass UniSteep®

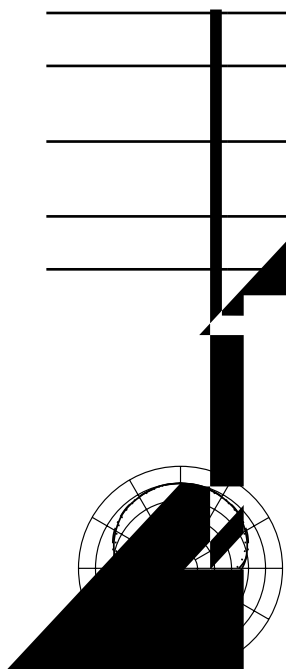
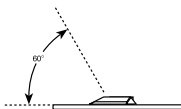
etc.), room reverberation and mechanically coupled vibrations.

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

ELEMENT	Fixed-charge back plate permanently polarized condenser	
POLAR PATTERN	Half-cardioid in hemisphere above mounting surface	
FREQUENCY RESPONSE	30-20,000 Hz	
LOW FREQUENCY ROLL-OFF	80 Hz, 18 dB/octave	
OPEN CIRCUIT SENSITIVITY	(re 1V at 1 Pa)	
	U851A (Phantom / Battery)	-40 dB (10.0 mV) / -41 dB (8.9 mV)
	U851R	-34 dB (19.9 mV)
IMPEDANCE		
	U851A (Phantom / Battery)	200 ohms / 270 ohms
	U851R	200 ohms
MAXIMUM INPUT SOUND LEVEL	(1 kHz at 1% T.H.D.)	
	U851A (Phantom / Battery)	133 dB / 123 dB SPL
	U851R	134 dB SPL
DYNAMIC RANGE (typical)	(1 kHz at Max SPL)	
	U851A (Phantom / Battery)	111 dB / 101 dB
	U851R	108 dB
SIGNAL-TO-NOISE RATIO		
	U851A	72 dB, 1 kHz at 1Pa
	U851R	68 dB, 1 kHz at 1Pa
PHANTOM POWER REQUIREMENTS	11-52V DC, 4 mA typical	
SWITCH		
	U851A	
	U851R	Flat, roll-off
BATTERY TYPE (U851A)	1.5V AA/UM3	
BATTERY CURRENT / LIFE (U851A)	0.4 mA / 1200 hrs typical (alkaline)	
WEIGHT		
	MICROPHONE (U851A / U851R)	244 g / 262 g
	POWER MODULE (U851A)	139 g
DIMENSIONS		
	MICROPHONE	108 mm - long, 23 mm - height, 84 mm - maximum width,
	POWER MODULE (U851A)	84 mm(H) x 63 mm(W) x 22 mm(D)
OUTPUT CONNECTOR		
	U851A	Integral 3-pin XLRM-type (power module)
	U851R	TB3M-type
CABLE	7.6m long, 3.2mm diameter, 2-conductor shielded cable with TA3F-type connector. (and XLRM-type connector for U851R)	
OPTIONAL INTERCHANGEABLE ELEMENTS		



		30-20,000 Hz
		80 Hz, 18 dB/octave
		(1V 1 Pa)
U851A		-40 dB (10.0 mV) / -41 dB (8.9 mV)
	U851R	-34 dB (19.9 mV)
U851A		200 / 270
	U851R	200
		(1 kHz 1% T.H.D.)
U851A		133 dB / 123 dB
	U851R	134 dB
		(1 kHz)
U851A		111 dB / 101 dB
	U851R	108 dB
	U851A	72 dB, 1 kHz 1Pa
	U851R	68 dB, 1 kHz 1Pa
		11-52V 4 mA
		U851A
		U851R
(U851A)		1.5V AA 3
/	(U851A)	0.4 mA / 1200 (
		(U851A / U851R) 244 / 262
		(U851A) 139
		108 mm - , 23
		84 mm -
(U851A)		84 mm())
U851A		3
U851R		TB3
		7
		20°



8 kHz