

INVOTONE SM150B is a cardioid polar pattern condenser microphones, excellent for broadcasting, recording or theater stage sound systems and other professional sound applications. The single large vapor-deposited gold diaphragm with exceptionally low self-noise and very high output, provides accurate reproduction of even the subtlest sounds, especially the high frequency signals not easily reproduced by conventional large diaphragm condenser transducers.

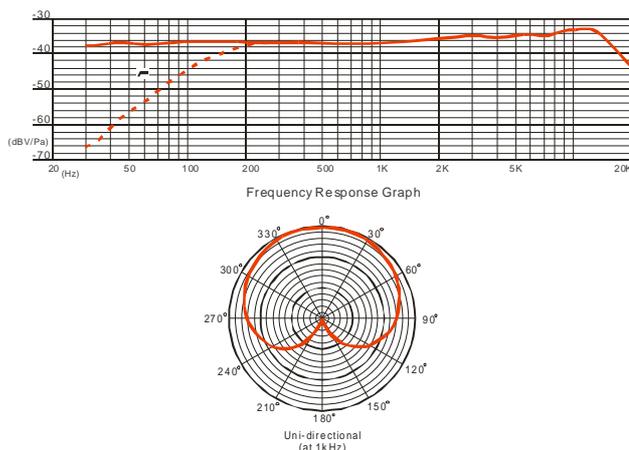
A switchable 10dB built-in (nominal) pad and low frequency attenuation can handle very high sound pressure levels with ease and reduce the pickup of low-frequency ambient noise (i.e. On stage shows). It also allows undistorted reproduction of high sound pressure level signals at all frequencies, which makes it an ideal choice for percussion and guitar recording.

The integrated three-layer brassed mesh grille protects the microphone from accidental damage and reduces plosives and breath noise. Its standard XLR (F) connector matches all kinds of audio equipment.

Specification:

Element: Pressure Gradient Transducer
 Polar Pattern: Uni-directional
 Frequency Response: 20Hz-20kHz
 Sensitivity: 38dB±2dB (0dB=1V/Pa at 1kHz)
 Output Impedance: 100Ω±30% (at 1kHz)
 Load Impedance: ≥1000Ω
 Self Noise: 18dB A (IEC 581-5)
 Max. Input SPL: 134dB (at 1kHz ≤1% T.H.D)
 S/N Ratio: 76dB
 Phantom Power Requirement: 48V Phantom Power

Frequency Response Graph:



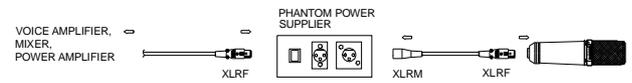
Connecting And Disconnecting The Microphone

Cable:

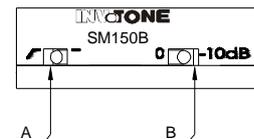
1. Insert the XLR connector into the microphone. If necessary, rotate the connector to align the key on the connector and the groove in the microphone. Push the connector into the microphone until it clicks.

2. To disconnect the cable and microphone, grasp the connector while depressing the tab. Pull the connector away from the microphone.

Operation:



How To Use Switch:



- A. Low frequency attenuation:
 - "-" no attenuation;
 - "┌" it can balance the low frequency rising effect of short distance pickup and reduce the feedback as well as protect from howling;
- B. Sensitivity attenuation:
 - "0" no attenuation;
 - "-10dB" it fixes the sensitivity on -10dB level, shortens the pickup distance, eliminates the noise: this function is usually used for high SPL and large dynamic pickup occasions (i.e. the pickup of low frequencies instruments of symphony orchestra);

Usage:

1. Turn on the amplifier or mixing board and set the volume control to minimum position. To connect the phantom power to the microphone turn on the phantom switch, and then accommodate the volume control from low to the required are so as to obtain the desired effect.
2. If the head of the microphone is covered by hand or brought close to the speaker, a howling sound may be generated. To prevent this, first decrease the volume, then place the microphone so that it is not pointed to the speaker and that there is a sufficient distance between the microphone and speaker.
3. The cartridge is very sensitive. Don't do drop, hit it or apply any strong shock to it.
4. To maintain the sensitivity and quality of the sound reproducing, avoid exposing it to moisture and extreme temperatures.