



USER'S GUIDE

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SCM-660

**PROFESSIONAL LARGE DIAPHRAGM MULTI-PATTERN
CONDENSER MICROPHONE**

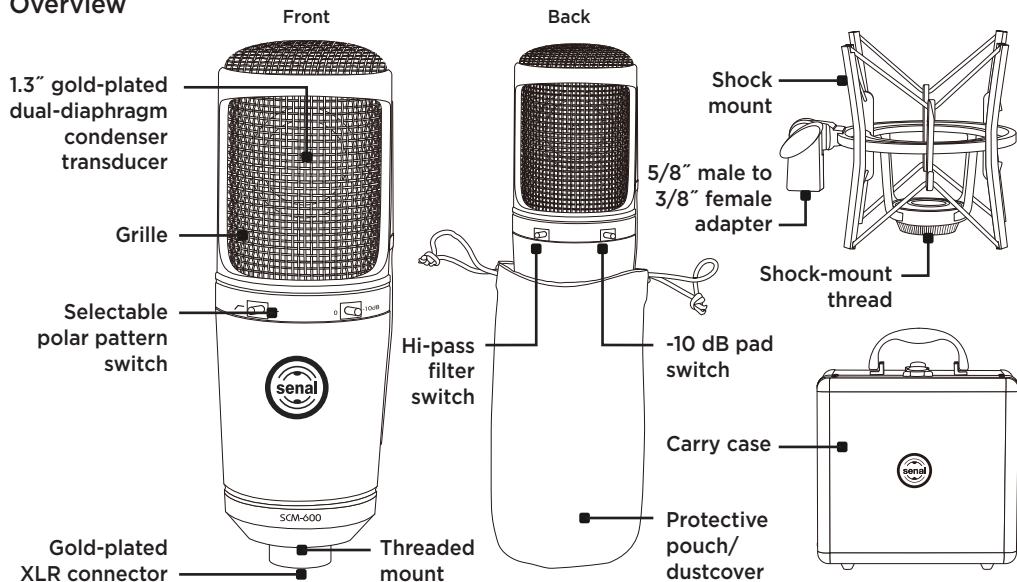
Thank you for choosing Senal.

The Senal SCM-660 is a professional grade, large dual diaphragm, true condenser microphone. Its dual 1.3" gold-plated transducer element is designed to give detailed and true sound reproduction in professional and project studio applications. Its full rich tone and clarity make it an ideal microphone for studio recording, broadcasting, podcasting, or live recording. With a wide dynamic range and high SPL of 140 dB, you'll be able to capture vocals and instruments accurately with pristine clarity.

The SCM-660's selectable polar patterns provide flexible options to pick up audio while minimizing off-axis noise and reflections. An onboard -10 dB attenuation pad allows you to achieve optimal signal levels when in front of loud sound sources such as guitar cabinets or singing. The 80 Hz high-pass filter rolls off unwanted low-frequency noise and rumble caused, for example, by wind or the microphone shaking.

The included shock mount reduces unwanted vibrations when ultimate sensitivity is required. Rugged all-metal construction provides durability in use or during transport, and the aluminum case and protective pouch/dustcover add extra protection. You'll enjoy using the Senal SCM-660, so let's get started.

Overview



Precautions

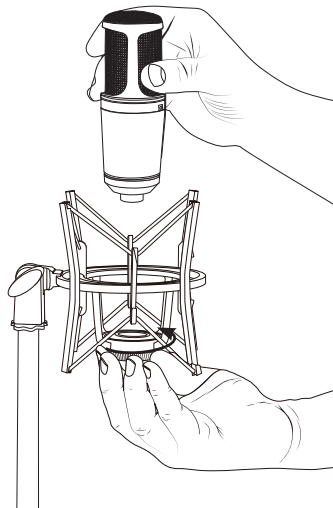
- Please read and follow these instructions and keep this manual in a safe place.
- Exposure to high sound levels can cause permanent hearing loss. Avoid listening at high volumes for extended periods.
- Keep this product away from water and flammable gases or liquids.
- Do not attempt to disassemble or repair this product yourself.
- Handle this product with care.
- Clean this product with only a soft, dry cloth.
- To avoid damage to this product, be careful not to overtighten or improperly thread any of the threaded fittings.
- Make sure this product is intact and that there are no missing parts.

Mounting the Microphone

To mount the SCM-660, follow these steps:

1. Screw the included shock mount onto a 5/8" threaded microphone stand and make sure it is in a 90-degree position. Then fully tighten the locking knob on the shock mount.
2. Carefully thread the bottom of the microphone to the shock mount thread and fully tighten.

Note: The front of the microphone (showing the Senal logo) should be facing your sound source for recording.



Selectable Polar Pattern Switch

Cardioid

When the cardioid pattern is selected (⊙), the microphone will pick up sound from the front and reject sound from the back of the microphone. This can be used for most frontal recording applications such as singing or guitar playing.

Figure 8

When in the figure 8 pattern (⊗), the microphone will pick up sound from the front and back of the microphone. Any noise from the sides will be rejected. This is great for two-person interviews with the microphone in between them, or MS (mid-side) stereo recording techniques such as drum overheads.

Omni

When in the Omni pattern (⊙), the microphone will pick up sound from all around. This is a preferred setting for high-quality ambience sound miking, or far-field recording in high-quality large and small recording rooms.

High-Pass Filter

The high-pass filter setting can be used to reduce the sensitivity of the microphone to low-frequency sounds, additional noise and vibration from outside traffic, air conditioning or other background audio. When set to ON (↗) the SCM-660 will filter sound 80 Hz and below. The OFF setting (→) results in no filtering.

Attenuation Pad

The SCM-660's attenuation pad can be used to lower the output by 10 dB for preventing distortion when recording loud sound sources like singing, percussion, or guitar amplifiers. In the left position, there is 0dB attenuation, in the right position, there is -10dB attenuation.

Connecting the Microphone

Use an XLR cable (not included) to connect the microphone to your mixing console, microphone preamp, or recording device. Make sure phantom power is turned on.

Note: Phantom power must be used with this microphone. Make sure your recording device has proper +48 V phantom power.

Warning ⚠

Make sure all faders and volume knobs are down. After the microphone is connected, set the volume to your preferred level for recording.

Before recording, make sure the high-pass filter is set to OFF (—) and the attenuation pad is not engaged. See previous section for further reference.

If using this microphone for vocals, do not sing or blow directly into the diaphragm. Use a pop filter (not included) to eliminate vocal plosives and shield against corrosive moisture that can damage the diaphragm.

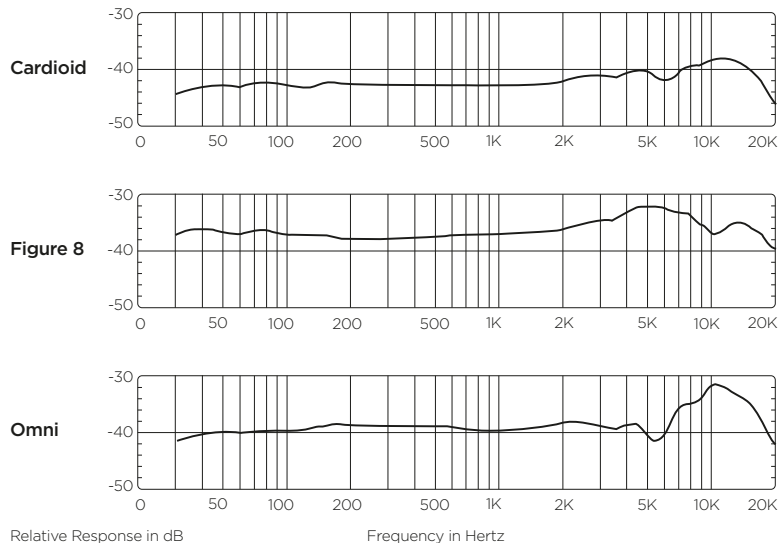
Troubleshooting

Problem	Solution
No sound is being recorded.	<p>Make sure your mixer or amplifier is turned on and phantom power is engaged.</p> <p>The fader of the channel or master volume on your mixing console is turned all the way down.</p> <p>Your preamp gain is turned all the way down.</p> <p>Make sure the microphone is properly connected and connections are secure.</p> <p>Check your cable to make sure it's reliable. Try switching it with another cable.</p>
The sound is distorted.	<p>Turn on the microphone's attenuation pad.</p> <p>Move the microphone away from the sound source.</p>
Too much low-frequency noise or rumble is being recorded.	<p>Turn on the high-pass filter.</p> <p>Turn off air conditioners, fans, heaters or other devices that might be interfering with your recording.</p>

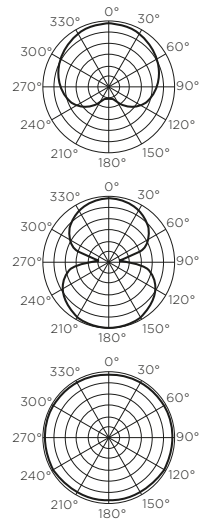
Specifications

Element:	Dual, true condenser transducer
Diaphragm:	Dual 1.3 inch (34 mm) gold-plated diaphragm
Polar pattern:	Cardioid, Figure 8, Omni
Frequency response:	20 Hz - 20 kHz
Sensitivity:	-33/-39/-38 dB \pm 3 dB (0dB=1V/Pa at 1 kHz)
Signal-to-noise ratio:	76 dB (1 kHz @ 1 Pa)
Maximum input SPL:	130 dB (140 dB with -10 dB pad engaged) (THD \leq 1.5% at 1kHz)
Impedance:	58 Ohms \pm 20%
Power requirements:	+48 V
Output connector:	Gold-plated 3-pin XLR
Pad:	-10 dB
High-pass filter:	80 Hz
Dimensions:	6" \times 2" (15.24 cm \times 5.08 cm)
Weight:	1.15 lbs. (0.52 kg) / 3.9 lbs. with case (1.8 kg)

Frequency Response Graph



Polar Pattern



Two-Year Limited Warranty

This Senal product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of two (2) years from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

To obtain warranty coverage, contact the Senal Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Senal along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.

For more information or to arrange service, visit www.senalsound.com or call Customer Service at 212-594-2353.

Product warranty provided by the Gradus Group.
www.gradusgroup.com

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