

User Manual



STUDIO CONDENSER MICROPHONE C-1

Studio Condenser Microphone

EN

EN Important Safety Instructions

Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality commercially-available speaker cables with ¼" TS plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Condenser microphones are extremely moisture-sensitive. Never use your microphone in close proximity to water (e.g. bath tubs, wash basins, sinks, washing machines, pools, etc.).



Always use the power supply specified in the operating instructions.



Take care not to drop your microphone as this can lead to severe damage. BEHRINGER assumes no liability for any damage caused by the user.



After each use, wipe the microphone down with a soft cloth and place it back into its protective casing (included with the microphone). The small bag containing the moisture-absorbing crystals should remain in the casing to help keep your microphone dry.

**CAUTION**

Never dismount the screen holding the capsule, as this can damage the microphone! Never try to modify the printed circuit board inside your C-1! This can lead to microphone damage that cannot be repaired. Any such attempt will void the warranty.

Limited Warranty

Please register your new BEHRINGER equipment right after your purchase by visiting behringer.com and read the terms and conditions of our warranty carefully.

1. Power Supply

Your condenser mic C-1 needs a phantom power supply (+36 to +52 V). If your C-1 is connected to a microphone preamp and supplied with phantom power, the LED on the microphone lights up. BEHRINGER assumes no liability for any damage caused by a defective phantom power supply. Always mute the sound reinforcement system before you switch on the phantom power supply.

2. Directivity

Your C-1 features a capsule with a cardioid pickup pattern and is ideal for recording individual instruments, vocals and speech. Cardioid pickup pattern means that the sound produced by sources located in front of the mic is strongly picked up. It is often used in recording situations, since this directivity pattern tones down the pickup of sounds located to the back of the microphone.

3. Microphone Installation

There is an adapter on your microphone that lets you mount it on mic stands with either metric (Europe) or imperial-gauge threads (North America). First dismantle the microphone from the stand mount adapter by detaching the fine-thread shoulder screw at the bottom end of the microphone. Fasten the adapter onto the microphone stand, place the microphone into it and tighten the screw again.

Basically, the microphone in the stand mount adapter should stand upright and face the sound source at a right angle. The angle of the microphone to the sound source influences the sound of the recording; therefore, experiment with different positions until you achieve the desired sound. To this end, you can rotate the mic in the stand mount adapter by loosening the screw somewhat and tightening it again.

If necessary, you can bend the microphone out of its vertical position by using the hinge on the microphone stand.

- ◆ **Please make sure to handle the microphone shaft with attention and care to avoid damaging the screw thread. In no situation should you ever apply excessive force.**

Of course, you can detach the C-1 from the stand mount adapter and attach it to a commercially available suspension mount.

4. Audio Connection

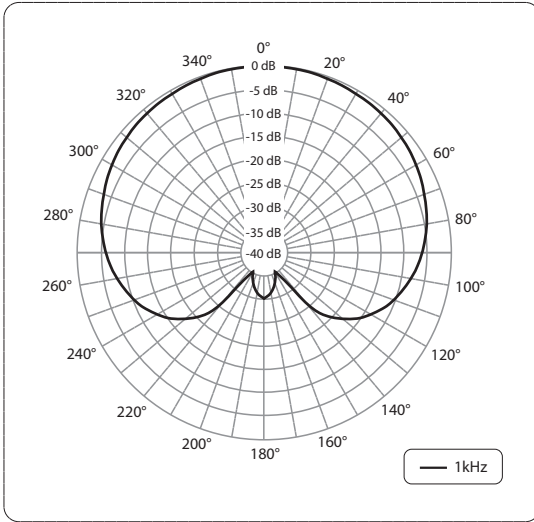
Use a balanced XLR microphone cable with the following pin assignment: pin 1 = shielding; pin 2 = +; pin 3 = -. Since your C-1 features gold-plated contact points throughout, we recommend that you use only microphone cables with gold-plated connectors.

5. Level Setting/Adjusting the Basic Sound

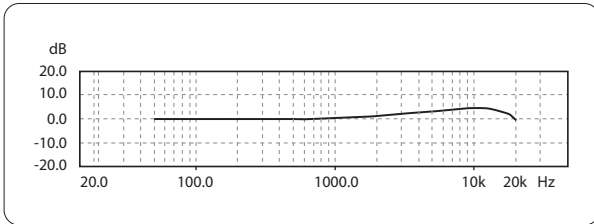
Adjust the gain control in the microphone channel of your mixing console so that the peak LED lights up only occasionally or never at all. The EQ controls in the microphone channel should be set to mid-travel position to start with. To get the sound you want, try changing the mic position relative to the sound source or even move the microphone around in the recording room of your studio.

Adjusting the angle at which walls face the sound source can also be helpful. Only when the desired basic sound has been achieved, should you start to use equalizers and signal processors, if any at all (remember: less is often more!)

Due to the extremely linear frequency response and the high sonic resolution of your C-1, there is no need for high-frequency "EQing" that can heavily influence the signal and unnecessarily increase the noise level. The C-1 provides that much-desired transparency which often gets lost during recording and mixing.



Polar pattern



Frequency response

6. Specifications

| | |
|---------------------------|------------------------------------|
| Transducer type | condenser, 16 mm |
| Polar pattern | cardioid |
| Connection: | gold-plated balanced XLR connector |
| Open circuit sensitivity | -33 ± 2 dBV (0 dBV = 1 V/Pa) |
| Frequency response | 40 Hz - 20 kHz |
| Max. SPL (1% THD @ 1 kHz) | 136 dB |
| Nominal impedance | 100 Ω |
| Load impedance | >1 k Ω |

Mains Voltage / Fuse

| | |
|----------------|------------|
| Supply voltage | +36 - 52 V |
| Supply current | 2.5 mA |

Physical/Weight

| | |
|------------|--|
| Dimensions | \emptyset shaft: 54 mm length: 169 mm |
| Weight | approx. 0.45 kg |



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