EHRLUND MICROPHONES

EHR-M1 MANUAL

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GETTING STARTED WITH YOUR EHR-M1

1. Plug in the microphone using any standard 3-pin XLR cable.
2. Turn on 48V Phantom power for your microphone at the audio interface you are using.
3. Set the mixer channel EQ completely flat to begin with.
4. Listen to your microphone to make sure that equalizers are turned off and everything sounds alright. Try making high frequency and low frequency noises by mouth, such as “sss”, “chh”, “bop” and “pom”. This is for ensuring a natural sound.
5. (Optional) Turn the EQ to your desired setting, or apply whatever filters you find necessary.

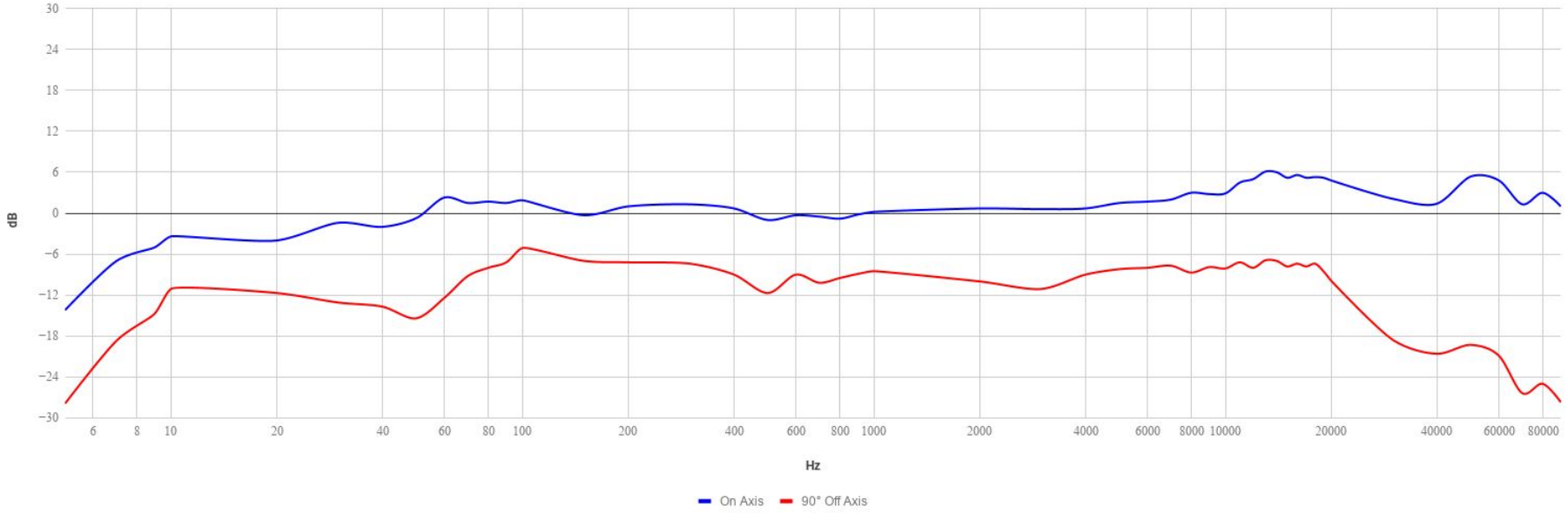
Good luck and have a great time performing!

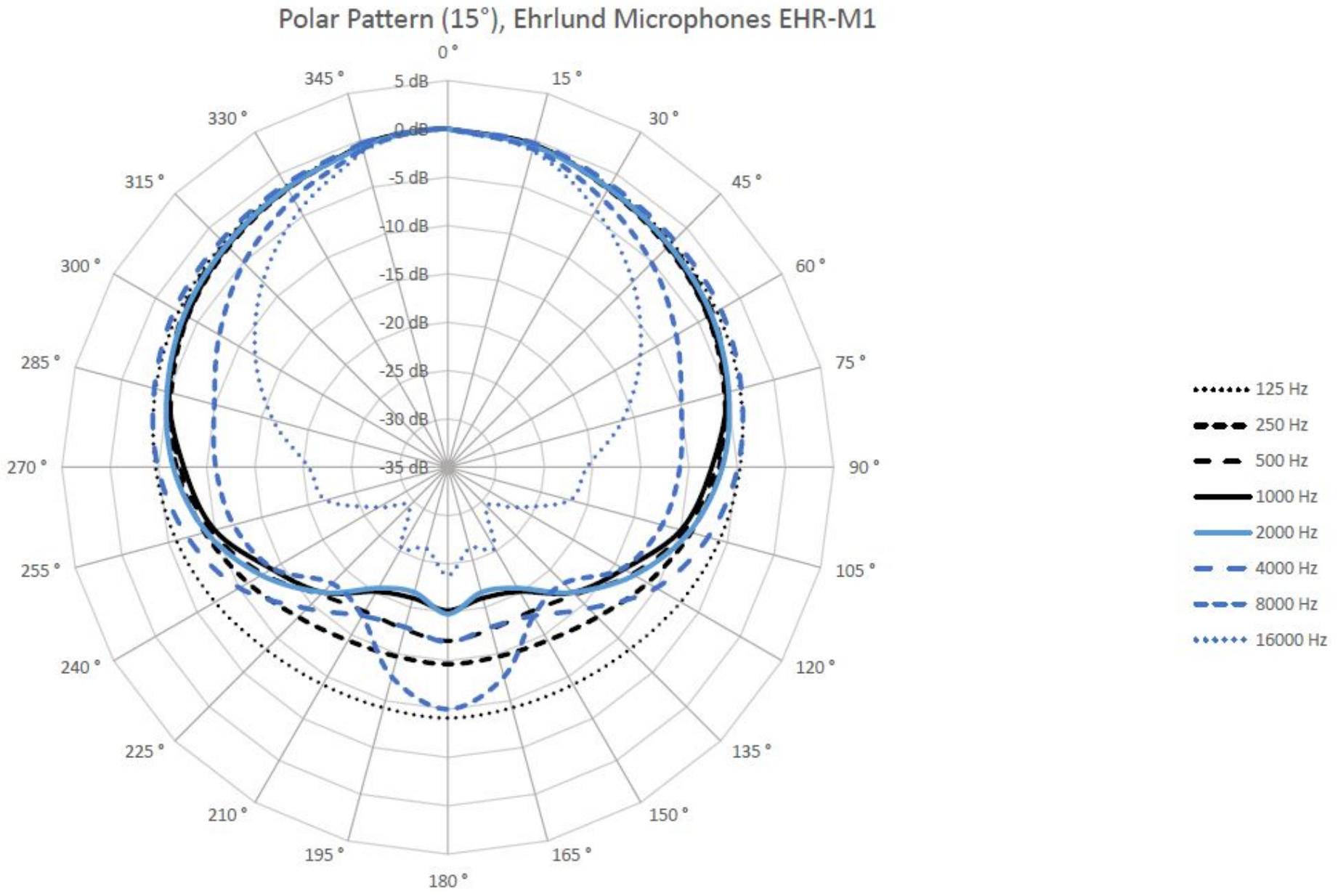
TIPS

1. To get the absolutely best low-noise experience out of your Ehrlund microphone we suggest using it together with high quality shielded cables and a power source that has a centre-tapped transformer to deliver Phantom power.
2. If you have any questions about your Ehrlund microphone please feel free to email us at info@ehrlund.se.

Our microphones have a sound that is a bit different from other conventional microphones, we encourage experimenting with EQ to get your own unique sound, or just go with a flat EQ and get a really clear, airy and transparent sound.

Frequency Response ± 2 dB




Polar Pattern (15°), Ehrlund Microphones EHR-M1
0 °
15 °
30 °
45 °
60 °
75 °
90 °
105 °
120 °
135 °
150 °
165 °
180 °
195 °
210 °
225 °
240 °
255 °
270 °
285 °
300 °
315 °
330 °
345 °
5 dB
0 dB
-5 dB
-10 dB
-15 dB
-20 dB
-25 dB
-30 dB
-35 dB
125 Hz
250 Hz
500 Hz
1000 Hz
2000 Hz
4000 Hz
8000 Hz
16000 Hz

COMPACT EXCELLENCE

The EHR-M1 is a Swedish manufactured studio condenser microphone. It has been designed to endure the rough conditions while on tour. The EHR-M1 is in many aspects like the EHR-M except it's smaller size, higher impact resistance and built in coarse dirt filter. Its patented triangular membrane design has been allied to a patented very low noise and low power phantom feed amplifier. The EHR-M1 has both broad and smooth pickup characteristics, with deep bass and extended treble. This microphone has impressive stats in self-induced noise, sensitivity and frequency range. The output signal is strong and usually does not need much amplification.

CHARACTERISTICS AND FEATURES

• Large Diaphragm Condenser Microphone
• Patented triangular membrane
• Patented internal amplification and power circuits
• Optimised for podcast, broadcast and touring environments
• Transparent and natural sound
• Great low-noise performance
• Phase and frequency linear internal amplifiers
• Compact size and weight
• Built in coarse dirt filter
• Durable design, built to endure the rough life on tour
• Broad pickup range, linear frequency response even at distance or off axis
• Bass frequencies are picked up in an accurate way even at some distance
• Natural reproduction of fast transients
• Colouring of sound is negligible and true to the original source
• Frequency range spans from infrasonic bass to ultrasonic treble
• Low energy consumption, ~2.0 mA
• Strong output signal, usually doesn't need any external amplification
• No pre-filtering needed, Ehrlund microphones are made for flat EQs
• Each and every Ehrlund microphone is stereo matched with its own model
• Handles all impedances without altering frequency or phase

IMPEDANCE

Due to our patented electronics, the frequency response is not affected by variances in impedance from the mixing console. For example, you should experience the same frequency response using a mixing console at 200 Ω as one at 2000 Ω.

POWER SUPPLY

48 V / 2.0 mA Phantom power through 3-pin XLR-connector.

CABLE

Standard 3-pin XLR microphone cable.

MICROPHONE STAND

Standard USA threads.
5/8" with an included and pre-mounted removable adapter for 3/8".

EHR-M1 TECHNICAL SPECIFICATIONS

Type	Condenser Microphone
Membrane Type	Triangular membrane, combines the characteristics of both large and small membranes
Pickup pattern	Cardioid
Frequency range	7 Hz - 87000 Hz
Sensitivity at 1kHz	-33 dBV/Pa (23 mV/Pa)
Impedance	Handles all impedances
Equivalent noise level	< 7 dBA
Signal-to-Noise	87 dBA
Dynamic Range	115 dB
Max SPL (peak)	
0.5% THD	116 dB
1% THD	122 dB
Power supply	48 V Phantom power
Current Consumption	2.0 mA
Connector	XLR 3-pin
Materials	Aircraft-grade aluminium body, hardened nickel-plated stainless steel net
Finish	Glass bead blasting
Dimensions	Ø53 mm x 95 mm
Weight	185 grams