



# DM20

**TOM & SNARE**

DRUM MICROPHONE

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[earthworksaudio.com](http://earthworksaudio.com) or call 1-603-654-2433.

EARTHWORKS AUDIO



**DM20**

Drum Microphone

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# Thank you for purchasing the Earthworks® DM20 Tom & Snare Microphone

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## **YOUR PURCHASE INCLUDES**

- 1 DM20 Microphone
- 1 RM1 Drum RimMount™
- 1 Microphone Bag
- 1 PW1 Foam Windscreen

## **GETTING STARTED**

The DM20 is a condenser microphone with active electronics. This means:

- Its output level will be naturally higher than many of the dynamic microphones that it may be replacing. It is not uncommon to need to reduce gain if you were previously using a dynamic microphone.
- You will need to engage phantom power on your interface or preamp. Pro Tip: It's always a good idea to plug in a condenser microphone while phantom power is off and the channel is muted. After engaging phantom power, give the microphone a short time to settle before unmuting.

## **Insert the DM20 Microphone into the RM1 RimMount**

Place the mic head and the gooseneck into the rubber holder from the bottom of the RimMount™. Push on the body of the microphone from the bottom (XLR connector end) to move the microphone up inside the rubber holder. The fit will be firm, so you will need to apply a little pressure to move the microphone body up until it stops naturally at the logo ring.



The RM1 is designed specifically for the DM20 allowing you to mount the microphone on the side of a tom or snare. The RM1 can also be used on the top or bottom of a tom or snare. It is suggested that you insert the DM20 microphone into the RM1 RimMount™ prior to attaching the RimMount™ to the drum.

### **Mount the RM1 RimMount™ to the Drum**

Place the mic head and the gooseneck into the rubber holder from the bottom of the RimMount™. Push on the body of the microphone from the bottom (XLR connector end) to move the microphone up inside the rubber holder. The fit will be firm, so you will need to apply a little pressure to move the microphone body up until it stops naturally at the logo ring.

The RM1 is designed specifically for the DM20 allowing you to mount the microphone on the side of a tom or snare. The RM1 can also be used on the top or bottom of a tom or snare. It is suggested that you insert the DM20 microphone into the RM1 RimMount™ prior to attaching the RimMount™ to the drum.

### **Tune It**

Once the RimMount™ is mounted securely on the drum rim with the DM20 microphone housed in the rubber holder, the microphone body can be moved either up or down in the rubber holder to provide the desired height. Then the gooseneck will provide a good amount of latitude in positioning the microphone head from any microphone body height.

Once the DM20 microphone height has been set, you can position the microphone head. It is suggested that the microphone head be positioned between 1.5 inches and 3 inches above the drumhead.



The flexible gooseneck will allow you to move the microphone head either up or down above the drumhead as well as in and out from the drum rim. Move the microphone head to best capture the intended drum sound. (Keep in mind that the microphone head should never be placed parallel to the drumhead, but should always be at an angle to the drumhead.)

Finally, once you are getting signal into your preferred digital audio workstation, listen with no EQ and then dial in according to taste.

## **TROUBLESHOOTING**

If you encounter issues while using your Earthworks Audio microphone, please make sure that:

- Your microphone is connected to an active power supply.
- Phantom power is being supplied to the microphone.
- Your microphone and XLR cable are well connected.
- The microphone is positioned at an appropriate distance from the sound source.
- External noise in your recording environment is kept to a minimum.
- Your recording space is at room temperature and free of dust.

If your issue persists after checking, please contact us via our website.



## SPECIFICATIONS

### Frequency Response

20Hz to 20kHz +2dB @ 6" (15cm)

### Polar Pattern

Cardioid

### Sensitivity

3mV/Pa (-50dBV/Pa)

### Power Requirements

24-48V Phantom, 10mA

### Peak Acoustic Input

150dB SPL

### Output

XLR (Pin 2+)

### Minimum Output Load

200Ω, balanced between pins 2&3

### Noise

20dB SPL (A weighted)

### Dimensions L x D

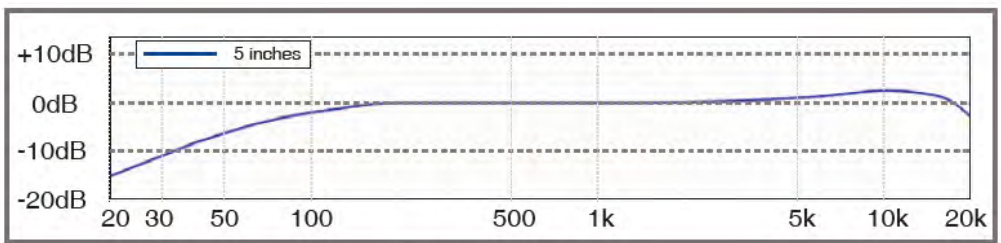
11.12 x .860 inches (282.44mm x 22mm)

### Gooseneck L & D

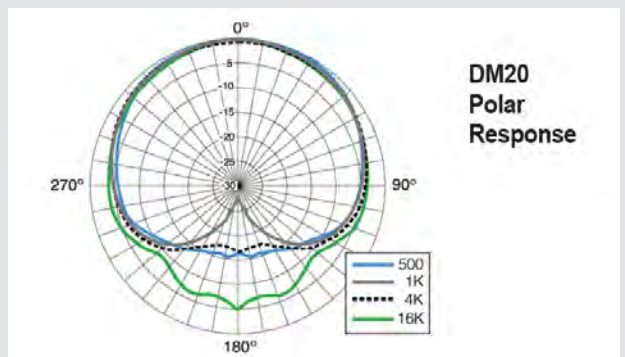
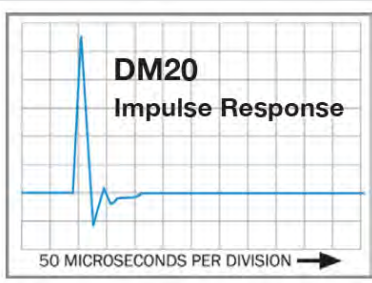
4.75 x .375 inches (120.65mm x 9.53mm)

### Weight

.55lb (.25kg)



Frequency in Hz  
Frequency Response of DM20 (typical)





## IMPORTANT NOTICES

Some sensitive audio interfaces and microphone preamps without pads may not be able to handle the high signal levels that occur when close-miking drums with Earthworks microphones. The solution is to use an external inline pad such as the Earthworks LP20 LevelPad between the microphone and the interface.

The small tip on many of our microphones allows them to capture the highest frequencies of your sound. Please be gentle and considerate when handling the microphones with these tips.

Please do not excessively bend the gooseneck beyond 90 degrees. Doing so on a consistent basis will cause the wand portion to deteriorate and lose its ability to stay in the desired position.

## WARRANTY

All Earthworks® products carry a limited warranty (parts and labor). Please register your warranty at: [earthworksaudio.com/register](https://earthworksaudio.com/register). If you have any problems with your Earthworks products, please contact our warranty/repair department by email at: [service@earthworksaudio.com](mailto:service@earthworksaudio.com).

## NOTE

This warranty only applies to Earthworks microphones purchased brand new. For microphones purchased/received second-hand, please contact us via our website.

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