

PM40

PIANO

MICROPHONE SYSTEM

EARTHWORKS AUDIO



Thank you for purchasing the Earthworks PianoMic™ System

YOUR PURCHASE INCLUDES

1 PianoMic[™] Telescoping Bar with Attached Microphone Heads 1 Microphone Electronics Box 1 Leather Pouch for Electronics Box 4 Felt Pads with Adhesive Backing 1 Carrying Case

GETTING STARTED

The PM40 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.

CAUTION – the microphone heads and goosenecks are permanently attached to the center section of the PianoMic[™] telescoping tube and cannot be moved, or removed. The distance between the two goosenecks is fixed at 16 inches (one-third of the width of a piano keyboard).



SETTING UP

- Check that all items are included with your PianoMic[™] System by using the list of "Items Enclosed" on the first page of this manual.
- 2. Remove the PianoMic[™] telescoping bar from the case and loosen the two clutches on either side of the two microphone goosenecks.
- 3. Extend both sides of the bar so that it is wider than the piano.
- 4. If you desire a more snug fit with the lid closed or if vibration becomes an issue, install one of the enclosed felt pads on the support brackets.
- 5. With the bar fully extended and the clutch adjusted where there is still a little friction, place the support bracket on the edge of the piano case opposite you. Then push on the bar until the PianoMic™ is the correct length to allow the support bracket to easily rest on the edge of the piano case nearest to you.
- 6. Once you have positioned the PianoMic[™] center section, tighten both clutches to insure that the PianoMic[™] bar stays in place.
- 7. With the PianoMic[™] in place, you can move the flex arms attached to the microphone heads several inches to the left or to the right to achieve your desired placement.
- 8. With the PianoMic[™] placed inside the piano and the microphones properly positioned you are ready to connect the PianoMic[™] cable to the electronics box. Notice that the top of each microphone head has a number. These numbers correspond to the numbers on the bottom of the electronics box. Depending upon how the PianoMic[™] is placed in the piano the high strings will be indicated by either the number 1 or number 2. Once the PianoMic[™] has been placed, identify the microphone numbers on the mic heads for both the high and low strings and remember that they correspond to the numbers on the bottom of the electronics box.



- 9. There are two ways to mount the electronics box: (1) in a leather pouch strapped to the leg of the piano, or (2) attached to a bracket that screws onto a short microphone stand. The PianoMic™ System comes with the necessary hardware to install the electronics box in either of these two ways.
 - Pouch Attached to Piano Leg: The enclosed leather pouch has Velcro straps that allow it to be attached to the leg of a piano. The pouch is open at the top and the bottom has a strap to prevent the electronics box from falling out of the bottom. There is an opening at the bottom of the pouch to conveniently attach the two standard XLR-3 microphone cables that go to your mixer preamp inputs.
- Electronics Box Attached to Mic Stand Bracket: The
 electronics box has a threaded insert in the bottom
 of the box that will mate with the threads on a
 standard microphone stand. By this method, the
 electronics box can be mounted to a short mic
 stand to keep it above floor level, if desired.

IMPORTANT NOTICES

The random incidence microphones in the PianoMic system do not work like conventional microphones. Therefore, microphone placement techniques that are used with conventional microphones will most likely not apply when using the PM40.

Start by placing the mic heads 2-3 inches above the strings and 2-3 inches in front of the dampers. Then listen! If you don't like what you hear, then experiment with other mic placements.



IMPORTANT NOTICES

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.

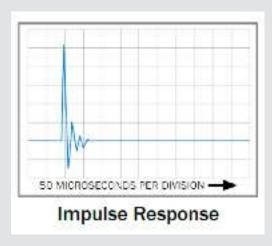
Do not twist the mic head more than 90° from pointing straight down at the strings.

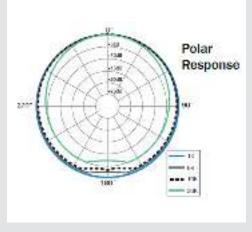
TROUBLESHOOTING

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

- The telescoping bar is secured onto the body of the piano.
- The electronics box is secure wherever you have placed it.
- The XLR connection from the telescoping bar to the eletronics box is active and strong.
- The microphone heads are 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

9Hz - 40kHz

Polar Pattern

Omnidirectional (random-incidence)

Sensitivity

15mV/Pa (-36 dBV/Pa)

Power Requirements

24-48V Phantom, 10mA

Peak Acoustic Input

148dB SPL

Output

XLR (Pin 2+)

Output Impedance

 600Ω , balanced between pins 2 & 3

Noise

20dB SPL (A weighted)

Mic Gooseneck Length

4.75 inches

Dimensions

64 in. fully extended, 46 in. fully collapsed

Weight

Mic Assembly: 0.75lb (350g) External Electronics Box: 1.5lb (700g)

WARRANTY

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