**High Definition FlexMic™ Series**

**FMRHD Series:** Gooseneck with Rigid Center and Flex at Both Ends, available in three lengths

**FMHD Series:** Fully Flexible Gooseneck, available in two lengths

- 40kHz High Frequency Response
- Spectacular Intelligibility & Sound Quality
- On or Off Axis, Always Hear the Orator
- Uniform Frequency Response at 0°, 45° & 90°
- More Gain Before Feedback
- No Handling Noise
- 139dB SPL Max Acoustic Input
- Excellent RFI Rejection
- Available in Cardioid or Hypercardioid
- Available with Fully Flexible Gooseneck in Short or Medium Lengths
- Available with Rigid Center Gooseneck with flex at both ends, in Short, Medium or Long Lengths
- Optional PMM1 Podium Mount Accessory

"When we use the new HD FlexMic for our worship services, here is what we notice: (1) there is a phenomenal clarity in the sound (almost like there was no microphone there at all), (2) the intelligibility is incredible, and (3) it has a mic has a much further reach both on and off-axis."

Franklin Denham, Minister of Music, Highland Baptist Church, Meridian MS

The new Earthworks High Definition FM Series offers spectacular results and will outperform any other podium microphone at any price. The FMHD microphones will allow you to hear more detail with greater clarity than previously possible. Just plug one into the XLR connector on a podium and you will find the audibles results absolutely incredible. The new FMHD podium microphones are the perfect choice for those who demand only the very best and are ideal for use in civic centers, boardrooms, educational facilities, theatres, churches and houses of congress.

Earthworks patented technologies provide high intelligibility and uniform off-axis response to ensure that the orator is always heard and well understood at the front, at the sides, below or above the microphone. This smooth off-axis response also provides more gain before feedback and a over 30dB rejection of sounds behind the microphone. With 139dB SPL max acoustic input, it is virtually impossible to overload the microphone and there is no microphone handling, noise in addition to incredible RFI rejection.

The Earthworks FMHD Series models offer you a variety of choices with fully flexible goosenecks or goosenecks with rigid centers that have flex at both ends. All models are available in either cardioid or hypercardioid polar patterns. The optional PMM1 podium mount will work with any FlexMic™ Series model. If you haven't heard an Earthworks High Definition FlexMic™, you are in for an real surprise!

See full specifications on back of page
The microphone shall be a back-electret condenser type with a wide-range uniform frequency response of 20 Hz to 40 kHz. The microphone shall have an output level of 10 mV/Pa. The microphone shall be of a single capsule, single membrane design. The microphone shall have an impulse response with the rise time no longer than 120 microseconds. The microphone shall have polar characteristics uniform in all planes to form either a cardioid or hypercardioid of revolution. Response at any angular position up to 90° away from the major axis within frequency range from 500 Hz to 16 kHz shall deviate by no more than ±3 dB from the ideal cardioid or hypercardioid pattern as described by the following equation: SPL(a)=20*Log(1/2+Cos(a/V)) (dB), where a is the angle in radians between the measurement source position axis and the major axis. The microphone shall accept sound pressure levels up to 139 dB producing no more than 3% THD. Overall length above the XLR connector shall be 12.5 in. (31.8cm) & FM500 18.3 in. (46.5cm).

**Specifications**

- **Frequency Response:** 20Hz - 40kHz
- **Polar Pattern:** Cardioid or Hypercardioid
- **Sensitivity:** 20mV/Pa (@1kHz, 0dB FS)
- **Power Requirements:** 24-48V Phantom, 10mA
- **Max Acoustic Input:** 139dB SPL
- **Connector:** XLR-3 (pin 2+)
- **Min Output Load:** 600 ohms between pins 2 & 3
- **Notes:** 16dB SPL equivalent (A-weighted)
- **Gooseneck:** Fully flexible gooseneck, Diameter: 275 in. (7mm)
- **Dimensions:** Base diameter is .860" (22mm) & FM500 18.3 in. (46.5cm)
- **Weight:** 0.3 lb. (137g)

Architectural & Engineering Specifications

The microphone shall be a back-electret condenser type with a wide-range uniform frequency response of 20 Hz to 40 kHz. The microphone shall have an output level of 10 mV/Pa. The microphone shall be of a single capsule, single membrane design. The microphone shall have an impulse response with the rise time no longer than 25 microseconds, and total settling time, including the rise time, no longer than 120 microseconds. The microphone shall have polar characteristics uniform in all planes to form either a cardioid or hypercardioid of revolution. Response at any angular position up to 90° away from the major axis within frequency range from 500 Hz to 16 kHz shall deviate by no more than ±3 dB from the ideal cardioid or hypercardioid pattern as described by the following equation: SPL(a)=20*Log(1/2+Cos(a/V)) (dB), where a is the angle in radians between the measurement source position axis and the major axis. The microphone shall accept sound pressure levels up to 139 dB producing no more than 3% THD. Gooseneck will have a rigid center section with flexible gooseneck at both ends. Overall length above XLR connector shall be 18.3 in. (46.5cm) long for FM500HD, 22.8 in. (58cm) long for FMR500HD, 26.6 in. (67.6cm) long for FMR720HD cardioid or FM and FMR series microphones more attractive and more durable than ever before!

**Specifications**

- **Frequency Response:** 20Hz - 40kHz
- **Polar Pattern:** Cardioid or Hypercardioid
- **Sensitivity:** 20mV/Pa (@1kHz, 0dB FS)
- **Power Requirements:** 24-48V Phantom, 10mA
- **Max Acoustic Input:** 139dB SPL
- **Connector:** XLR-3 (pin 2+)
- **Min Output Load:** 600 ohms between pins 2 & 3
- **Notes:** 16dB SPL equivalent (A-weighted)
- **Gooseneck:** Rigid center with 2.5in. to 3in. flex on both ends
- **Dimensions:** Base diameter is .860" (22mm)
- **Lengths:** FM360HD: 12.5 in. (31.8cm) & FM500: 18.3 in. (46.5cm)
- **Weight:** 0.3 lb. (137g)

**Earthworks’ sleek new metal windscreen design makes the FM and FMR series premium microphones more attractive and more durable than ever before!**

Specifications Subject to Change without Notice

Earthworks’ sleek new metal windscreen design makes the FM and FMR series premium microphones more attractive and more durable than ever before!