

Architectural & Engineering Specifications
30kHz Cardioid & Hypercardioid

The microphone shall be a back-electret condenser type with a wide-range uniform frequency response of 30Hz to 30 kHz, ± 2 dB @ 1 ft. (30cm). 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 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 a cardioid of revolution for FW730 and a hypercardioid of revolution for FW730/HC. The microphone shall accept sound pressure levels up to 145dB producing no more than 3% THD and shall have strong RFI rejection. Dimensions of the stand/microphone head shall be 7" 2" (2.13m) high with a shock-isolating 12" (30.5cm) diameter metal base or tripod base. The maximum microphone head diameter shall be .540" (14mm) without the windscreen, and .9" (23mm) including the supplied optional windscreen. The microphone shall be terminated with a professional 3-pin male XLR connector with gold plated contacts and shall have no cables visible above the base-mounted XLR connector. The microphone system shall require 48V phantom power. The microphone system shall be made of various metals with a black finish and a dark grey cast iron base or black tripod base. The flexible microphone system shall be capable of positioning the microphone head from 1.5 ft. (.46m) to 7 ft. (2.13m) above floor level. The total weight of the microphone system with metal base shall be 14.6 lbs. (6.6kg) or with tripod base 3.6 lbs. (1.6kg) The Earthworks FW430, FW430TPB, FW430/HC or FW430/HC-TPB is specified.

- A Totally Unique Combination of Microphone, Microphone Boom and Stand in a Single Unit
- Low Profile with No Visible Wires Above Floor Level
- Seven Foot Version Allows Microphone to be Positioned from 1.5 feet to 7 feet high
- High Definition Microphone™
- Hear Details that Other Microphones Miss
- More Gain Before Feedback
- Exceptional Rejection of Sounds From the Rear
- Highly Versatile & Easy to Position from 1.5 to 7 feet high
- 30Hz to 30kHz Frequency Response
- 145dB SPL Max Acoustic Input
- Near Perfect Polar Pattern Provides Uniform Frequency Response at 0°, 45° & 90°
- Available in Cardioid & Hypercardioid

FW730 30kHz Cardioid (metal base)

FW730TPB 30kHz Cardioid (tripod base)

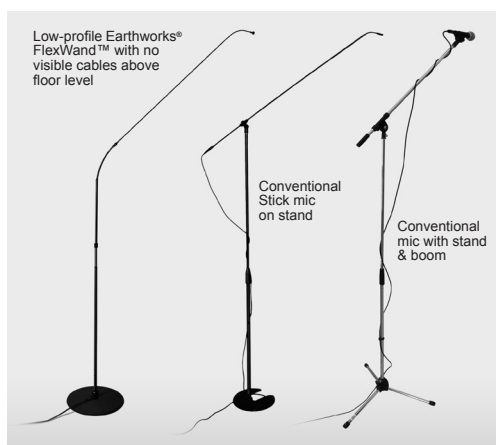
FW730/HC 30kHz Hypercardioid (metal base)

FW730/HC-TPB 30kHz Hypercardioid (tripod base)

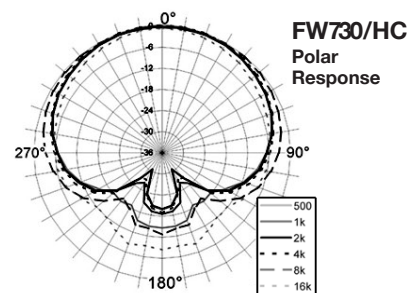
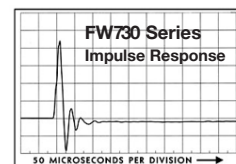
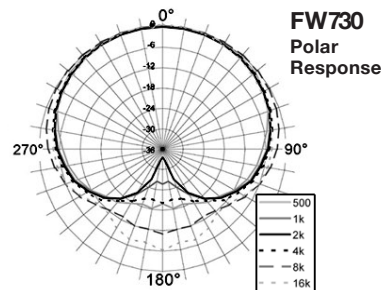
FlexWand™ High Definition Microphones™

The FlexWand™ is a totally new concept in microphones. It is a combination of a High Definition Microphone and a low profile microphone stand and boom as a single unit. The FlexWand comes in two sizes; the FW730, 7 ft. model and the FW430, 4 ft. model. The FW430 allows the microphone head to be positioned as high as 4.7 feet and as low as 10 inches from the floor or anywhere in between. Both models are available with either a metal cast iron base or a tripod base. Best of all there are no visible wires or cables above floor level. Visually it is low profile, smooth, sleek and clean. The FlexWand™ is the ideal solution for applications where the utmost in sound quality and a low profile is required.

Using the FW730, you don't have to find a mic, attach



— Patent Pending —



the mic clip to the stand and then dress the cable around the stand. Just pick up the FlexWand, position it and plug the mic cable into the base. You are done! Best of all it is neat and clean visually with no unsightly microphone cable wrapped around the stand and boom. And, it sounds spectacular!

Stand & Wand

The FlexWand™ has a large flex section near the center of the stand that couples the stand and the wand. There is also a mini-gooseneck between the end of the wand and the microphone head. The lower section of the stand is 3/4" in diameter and the 24 inch wand is 5/16" in diameter with a 4.5" mini-gooseneck connected at the end which connects to the High Definition Microphone head. The combination of a mid-flex section and the mini-flex on the wand provide an infinite combination of placement options between 1.5 feet and 7 feet. Please refer to the application photos on the rear of this data sheet.

Specifications

- Frequency Response:** 30Hz to 30kHz ± 2 dB @ 1 foot (30cm)
- Polar Pattern:** Cardioid or Hypercardioid
- Sensitivity:** 10mV/Pa (-40dBV/Pa)
- Power requirements:** 48V Phantom, 10mA
- Max Acoustic Input:** 145dB SPL
- Output Connector:** Male XLR-3 (pin 2+)
- Min Output Load:** 600 ohms between pins 2 & 3
- Noise:** 22dB SPL equivalent (A weighted)
- Positioning Range:** From 1.5 ft. to 7 ft. above floor level
- Dimensions:** Stand 7' 2" long (2.18m), Base 12" (30.5cm) in diameter, 1.1" (2.7cm) high
- Color:** Stand, flex & wand - black, base - dark gray
- Unit Weights:** Stand 2 lbs. (.9 kg), Metal Base 12.6 lbs. (5.7kg), Tripod Base 1.6 lbs. (0.73kg)

Turn over page for additional information →