

FireBall™ Dynamic Instrument Microphone

OVERVIEW

The FireBall is a professional dynamic instrument microphone intended for harmonica (both diatonic and chromatic), accordion, and beatbox vocals. It provides clear, accurate and capable of handling sound pressure levels in excess of 140 dB without distortion. The FireBall is ideally suited for both live stage and studio recording applications.

The FireBall is characterized with a cardioid pickup pattern for isolation and feedback control and is equipped with a VLM (Very Low Mass) diaphragm for natural sound reproduction with exceptional transient response.

With a smooth, uniform frequency response of 50 Hz - 16 kHz, the FireBall™ is lightweight, compact, and comfortable to hold. The Fireball is manufactured with a precision machined aluminum body, dent resistant steel mesh grill, unique three stage marbled anodized finish and gold plated XLR connector. The FireBall™ is a low impedance microphone; when using the FireBall™ with a guitar amplifier, a high quality low-high impedance transformer (such as T50K) is required.

SUPPLIED ACCESSORIES

DCLIP - Heavy-duty nylon molded snap on clip.

P1 - Carrying pouch

OPTIONAL ACCESSORIES

WS357 - Optional high quality external foam windscreen for reducing wind, sibilance, and pop noise.

CBL20 - 20' premium XLR-XLR balanced mic cable. Quad conductor, twisted pair with braided shield for maximum conductivity. 6mm PVC jacketed.

CBLDR25 - 25' premium right angle XLR-XLR balanced mic cable. Quad conductor, twisted pair with braided shield for maximum conductivity. 6mm PVC jacketed.

CBLBP360 - 4' adapter cable for RAD360 Wireless Bodypack.

T50K - Professional impedance matching transformer that allows a low impedance microphone to be connected to a high impedance input.



FEATURES

- Ultra-small professional dynamic instrument mic for live sound or studio
- Clear, accurate sound with wide response
- Precision machined body with two tone marble finish unique to every mic
- VLM Capsule
- Designed, assembled & tested in the USA
- 5 year warranty

APPLICATIONS

- Live stage, studio
- Vocals
- Harmonica, beatbox, accordion, percussion
- Saxophone, trumpet, trombone, flute



DCLIP



P1



WS357



CBL20



CBLDR25



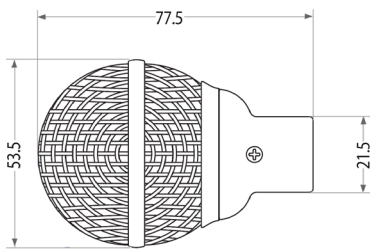
T50K

FireBall

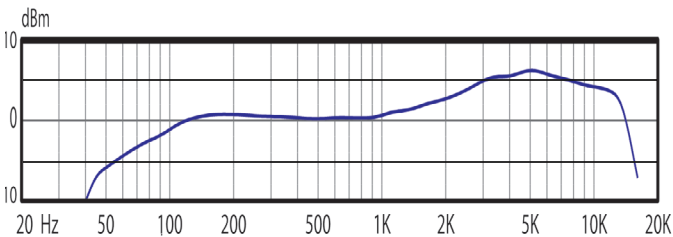
SPECIFICATIONS

| | |
|--------------------|---|
| Transducer Type | Dynamic |
| Frequency Response | 50 Hz - 16 kHz |
| Polar Pattern | Cardioid |
| Output Impedance | 280 ohms |
| Sensitivity | 1.5 mV / Pa @ 1k |
| Capsule Technology | VLM Tyle B |
| Off Axis Rejection | >23 dB |
| Maximum SPL | ≥140 dB |
| Power Requirements | None |
| Connector | 3-pin XLRm |
| Polarity | Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output XLR connector |
| Materials / Finish | Machined Aluminum / Anodized |
| Weight | 128 g / 4.5 oz |
| Length | 77.5 mm / 3.05 in |

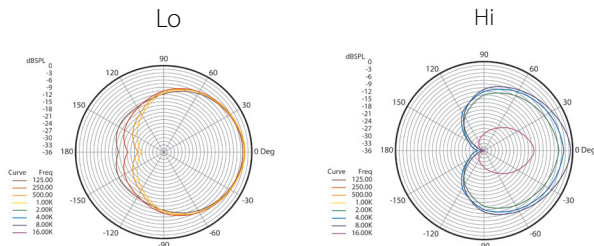
DIMENSIONS (mm)



FREQUENCY RESPONSE



POLAR PATTERNS



PRODUCT REGISTRATION: Please register your product online at www.audixusa.com/docs_12/about/product_registration.shtml.

SERVICE AND WARRANTY: This microphone is under warranty for a period of 5 years to be free of defects in material and workmanship. In the event of a product failure due to materials or workmanship, Audix will repair or replace said product at no charge with proof of purchase. Audix does not pay or reimburse shipping costs for warranty repairs or returns. The warranty excludes any causes other than manufacturing defects, such as normal wear, abuse, environmental damage, shipping damage or failure to use or maintain the product per the supplied instructions. No Implied Warranties: All implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose are hereby excluded. The liability of Audix, if any, for damages relating to allegedly defective products shall be limited to the actual price paid by Dealer for such products and shall in no event include incidental or consequential damages of any kind. Should your microphone fail in any way, please contact the Audix Service department at 503.682.6933. A Return Authorization is required before returning any product. OTHER THAN THIS WARRANTY, AUDIX MAKES NO WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS, THE USE OF THE PRODUCTS, THE PERFORMANCE OF THE PRODUCTS. AUDIX SHALL NOT BE LIABLE FOR SPECIAL INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES ARISING FROM OR BASED ON THE SALE, USE, STORAGE OR DISPOSAL OF THE PRODUCTS, AUDIX'S SERVICE WORK, BREACH OF WARRANTY, BREACH OF CONTRACT. NEGLIGENCE, OR ANY OTHER THEORY OF LIABILITY, EVEN IF AUDIX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

ARCHITECT AND ENGINEER SPECIFICATIONS

The microphone shall be of the dynamic type operating on the moving coil principle and the polar pattern of the microphone shall be cardioid. The capsule shall be VLM Type B. The nominal output impedance shall be equal to 280 ohms at 1 kHz. The microphone shall have a sensitivity of 1.5 mV / Pa at 1 kHz and a sound pressure level ≥140 dB. The microphone body shall be machined of aluminum and the grill is steel mesh. The overall dimensions shall be 21.5 mm in diameter at the base, 53.5 mm at the widest point on the grill and 77.5 mm in length.

OPERATION AND MAINTENANCE

The Fireball is a low impedance microphone and should be plugged into a "mic level" input on your console, mixer, or recording device. Please note that your microphone does not require phantom power and will not be affected in any way by phantom power should it be running simultaneously while the microphone is in operation. Avoid plugging or unplugging the microphone from the PA system unless the channel is muted or the volume of the system turned down. Failure to do so may result in a loud "popping" noise which could seriously damage the speakers in the PA system.

The Fireball is manufactured to exacting specs with roadworthy construction. However, the capsule is highly sensitive and should be handled with care. Avoid extreme temperatures and be sure to store your microphone in the pouch provided when not in use. Moisture of any kind can adversely effect the sound and performance of your microphone.

USER TIPS

The FireBall has a tight cardioid pick-up pattern in order to help eliminate sound from other instruments on stage from "bleeding" into the microphone.

The FireBall is a low impedance microphone, however, it may be plugged directly into a guitar amp by using the Audix T50k impedance converter. This will allow for the proper gain structure and will ensure the best possible sound quality.

The FireBall may also be used for a wide variety of instrument and vocal applications. Working distance can be anywhere between 1-6 inches depending on the instruments on stage, the volume of the music, and the type of stage monitors. Allow a distance of 2-3 feet between microphones to avoid phase cancellation issues.

Further miking techniques may be found at www.audixusa.com.