

UEM81S Shotgun Condenser

OVERVIEW

The UEM81S is a pre-polarized condenser microphone used for stage, studio, video and broadcast applications. The UEM81S is conveniently powered by one AA battery; therefore it is not dependent on phantom power for operation. Known for its exceptional sound quality, accurate response and ability to pick up from a distance, the UEM81S is designed to be aimed directly at the sound source and can help capture those “hard to get to” places in a theatre, on a stage, in a sporting event or in the outdoors.

Characterized with a uniformly controlled supercardioid polar pattern, the UEM81S is designed to capture the acoustics of a vocal or instrument while at the same time isolating it from the rest of the ambient noise on stage or in a video shoot. With a wide frequency range of 20 Hz – 20 kHz, the UEM81S is equipped with an on-off switch as well as with a bass roll-off switch.

The UEM81S is very easy to position, durable and manufactured to high standards and tight tolerances. Roadworthy construction includes a machined aluminum body and capsule housing, black e-coat finish, interchangeable threaded capsule and snap to fit composite clip.

SUPPLIED ACCESSORIES

PS81 - Modular preamp supply with on-off switch and bass roll-off filter

CPS81S - Super cardioid capsule

MC81 - Tension-fit clip

WS81S - External Foam Windscreen

CBL20 - 20' XLR-XLR mic cable

- 1 AA Battery

- Vinyl carrying box

OPTIONAL ACCESSORIES

DCLIP - Heavy duty tension clip

SMT25 - Shockmount suspension clip

TRIPOD - Tripod mic stand

CPS81C - Cardioid capsule

REPLACEMENT CAPSULE

CPS81S - Modular cardioid capsule



FEATURES

- “Shotgun” pick up pattern
- Excellent sonic quality
- AA Battery operated
- Highly sensitive
- On-off switch, bass roll-off filter
- Lightweight, easy to position
- Modular capsule

APPLICATIONS

- Live sound, location recording, video, film
- Vocals - lead, background, group
- Acoustic instruments
- Overheads, room ambience



WS81S



UEM81S on MC81



SMT25



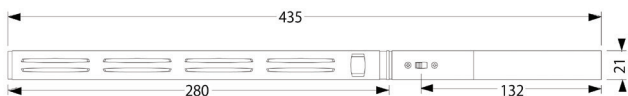
TRIPOD

UEM81S

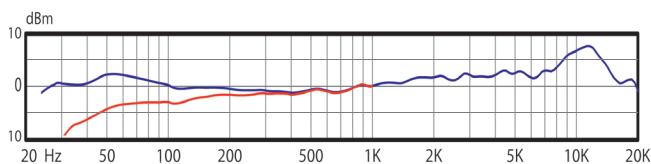
SPECIFICATIONS

Transducer Type	Pre-Polarized Condenser
Frequency Response	20 Hz - 20 kHz
Polar Pattern	Supercardioid
Output Impedance	600 ohms
Sensitivity	3 mV / Pa @ 1k
Equivalent Noise Level	24 dB (A weighted)
Signal to Noise Ratio	79 dB
Maximum SPL	≥128 dB
Power Requirements	AA Battery
Connector	20' XLR-XLR
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3
Materials / Finish	Machined Aluminum / Black Finish
Weight	396.9 g / 14 oz
Length	435 mm / 17.1 in

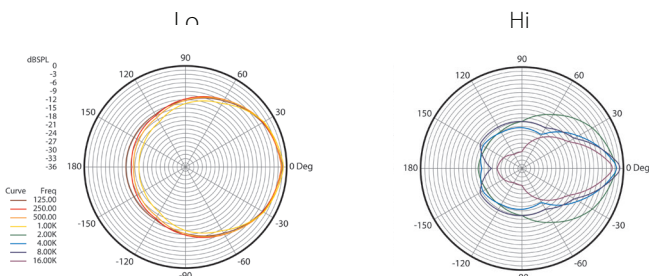
DIMENSIONS (mm)



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 3 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 a back plate pre-polarized condenser with a modular capsule and supercardioid polar pattern. The microphone shall operate on 1.5 volts DC (AA Battery) and the nominal output impedance shall be equal to 600 ohms at 1 kHz. The microphone shall have switches for on-off function and bass roll-off filter. The microphone shall have a sensitivity of 3 mV / Pa at 1 kHz and a maximum SPL level of ≥128 dB with a THD of 0.5%. The microphone shall be machined from aluminum brass with dimensions of 21 mm in diameter and 435 mm in length. The microphone shall be the Audix UEM81S.

OPERATION AND MAINTENANCE

The UEM81S is a low impedance microphone and should be plugged into the mic level input of your mixer, console, or recording device. The UEM81S does not require phantom power as it is powered by one AA battery and will operate for 100 hours under normal usage. Phantom power will not adversely effect the UEM81S as long as batteries are installed. If batteries are not installed and phantom power is engaged, you may experience frequency loss in the bass frequencies and higher self noise.

Avoid plugging or unplugging the microphone from a PA system unless the channel is muted or the volume of the system is turned down. Failure to do so may result in a loud "popping" noise which could seriously damage the speakers in the PA system.

On-Off Switch: The switch must be in the ON position in order for the microphone to operate. Avoid using the switch unless the PA system is muted or the volume turned down. When the microphone is not in use, be sure to turn the microphone OFF in order to conserve battery power.

M/V Bass Roll-Off Switch: This feature gently rolls off the bass frequencies starting at 150 Hz which is very helpful in reducing "boominess" for voice. This feature is engaged when the switch is in the "150Hz" position. For full range frequency response for musical instruments put the switch in the "Flat" position. Replacing the battery: If the microphone begins to sound distorted or weak, it is time to change the battery. Battery is housed in bottom section of the mic above the XLR connector. Unscrew the housing to replace the battery.

Windscreen: The windscreen can be utilized to help control wind noise, breath noise, popping and sibilance sounds.

USER TIPS

The UEM81S is an excellent utility microphone for audio and video applications as it will pick up and isolate sound from a distance. Depending on the gain structure of the device it is plugged into and noise conditions surrounding the microphone, the UEM81S will have an effective reach of 25' or more.

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