

# MG12/15/18 Dynamic Instrument Microphone

## OVERVIEW

The MG12, MG15, and MG18 are professional miniature gooseneck condenser microphones designed for applications such as podium, presentation, meetings and teleconferencing. Known for their clarity, excellent sound quality and ease of operation, the MG12/15/18 have the ability to accurately capture and reproduce vocals from a comfortable distance.

The MG12/15/18 are characterized with a uniformly controlled cardioid polar pattern, helping to isolate the speaker from other ambient noise in the room or on the stage. The MG12/15/18 gooseneck mics are also available in a hypercardioid polar pattern for tighter pattern control (see models below). With a wide frequency range of 60 Hz - 19 kHz, the MG12/15/18 provide natural sound with exceptional transient response.

The MG12/15/18 gooseneck system is equipped with a sophisticated dual preamp circuitry – one circuit located in the capsule housing and the other circuit built into the base of the XLR. This circuitry is internally balanced, insuring that the audio path will be isolated from hum and noise. In addition, the circuitry employs protection from RF and spurious emissions from cell phones and wireless GSM devices.

The goosenecks may be mounted with the supplied flange mount (TM1218) or with an optional base with an internal shockmount (SMT1218R). The mics may also be used on a standard mic stand or in conjunction with the Audix ATS10 table stand with lighted on-off switch, ATS1 table stand with programmable switch and ATS1L with remote logic capability.

Manufactured to very high standards and tight tolerances, the MG12/15/18 features a machined brass body, field replaceable capsule, replaceable electronics, and a variety of optional accessories. The MG12/15/18 operate on phantom power of 18 - 52 Volts and are available in non-reflective black matte finish.

## SUPPLIED ACCESSORIES

**TM1218** - Flange table mount

**WS1218** - External foam windscreen

## OPTIONAL ACCESSORIES

**ATS1** - Table stand with programmable switch

**ATS1LP** - Table stand with remote logic capability and spin phoenix connector

**ATS1LX** - Table stand with remote logic capability and spin XCR connector

**ATS10** - Table stand

**SMT1218R** - Rubber insulated shockmount

**DCLIP** - Mic stand adapter

**APS2** - Two-channel phantom power supply



## FEATURES

- Natural accurate sound
- Modular threaded capsule(s)
- Low noise electronics, dual circuitry, internally balanced
- RF Immunity
- Low profile design
- Tension fit design for stable positioning

## APPLICATIONS

- Pulpit, podium
- Board meetings
- Video Teleconferencing
- Courtroom

## REPLACEMENT CAPSULES

- CPSMICROC - Cardioid (Black)
- CPSMICROHC - Hypercardioid (Black)
- CPSMICROO - Omnidirectional (Black)
- CPSMICROS - Supercardioid (Black)



ATS1



ATS10



APS2



SMT1218R



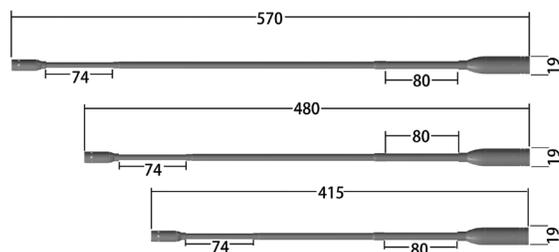
DCLIP

# MG12/15/18

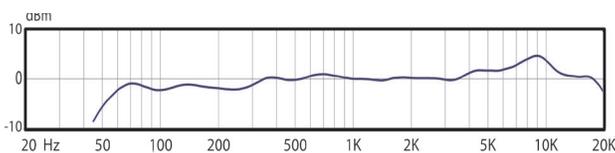
## SPECIFICATIONS

Transducer Type	Pre-Polarized Condenser
Frequency Response	60 Hz - 19 kHz
Polar Pattern	Cardioid / Hypercardioid (MG12HC, MG15HC & MG18HC)
Output Impedance	150 Ohms balanced
Sensitivity	32 mV (C) / Pa @ 1k 38 mV (HC) / Pa @ 1k
Equivalent Noise Level	22 dB (A weighted)
Signal to Noise Ratio	72 dB
Power Requirements	18 - 52 Volts phantom
Maximum SPL	≥130 dB
Dynamic Range	108 dB
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output XLR connector
Materials / Finish	Machined Brass / Black Finish
Weight	118 g / 4.16 ounces (MG12) 126 g / 4.44 ounces (MG15) 134 g / 4.73 ounces (MG18)
Length	415 mm / 16.3 inches (MG12) 480 mm / 18.9 inches (MG15) 570 mm / 22.4 inches (MG18)

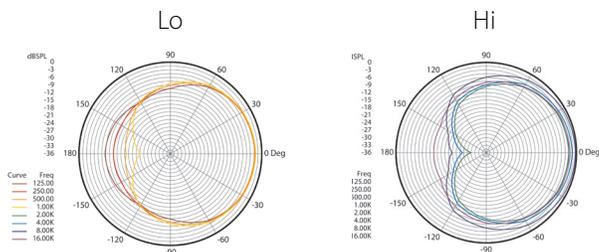
## DIMENSIONS (mm)



## FREQUENCY RESPONSE



## POLAR PATTERNS



**PRODUCT REGISTRATION:** Please register your product online at [www.audixusa.com/docs\\_12/about/product\\_registration.shtml](http://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(s) shall be of the condenser type with a modular threaded capsule.

The microphone(s) shall be available in a cardioid and hypercardioid polar pattern and shall have a base terminating in a male XLR plug. The microphone(s) shall operate on 18 - 52 Volts phantom power. The microphone(s) shall have a sensitivity of 32 mV/Pa (cardioid) or 38mV/Pa (hypercardioid) and a nominal impedance of 150 ohms at 1 kHz. The microphone(s) shall have a maximum SPL level of ≥130 dB and shall be fabricated from aluminum tubing, brass fittings, and coiled steel gooseneck material. The microphone capsule shall be available in three gooseneck lengths. The microphone(s) shall be the Audix MG12, MG15, MG18.

## OPERATION AND MAINTENANCE

The MG12/15/18 are low impedance microphones and should be plugged into a "mic level" input on your console, mixer, or recording device. The MG12/15/18 require phantom power and will NOT operate without phantom power voltage (minimum of 18- 52 Volts) which is available on most professional mic preamps and mixing devices. Avoid plugging or unplugging the microphone from a 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.

**Changing Capsules:** Capsules can easily be replaced or interchanged by simply screwing them on and off the capsule housing.

**Permanent Installation:** The MG12/15/18 can be conveniently plugged into any standard XLR female connector or receptacle. For permanent installation on a table, podium or flat surface, use the supplied flange shockmount. The base of the MG12/15/18 will fit securely into the flange and a standard XLR-f microphone cable or panel jack may be used. If further shockmount or isolation is required, it is recommended to use the optional SMT1218R rubber shockmount which requires boring out a 2 inch hole.

## USER TIPS

**Speaking distance and angle of microphone:** The two flexible portions of the microphone will enable you to position the mic according to height and speaking style of the user. In general, the microphone can be angled at 60-75 degrees towards the speaker and be 12-16 inches away from the mouth. A shorter distance can be used for a fuller sound or for weaker voices.

**Windscreen:** The supplied windscreen should be used to help minimize pop noise and breath noise. If breath or pop noise appears to be excessive, either move farther away from the microphone or try speaking over the top of the microphone rather than directly into it.

**Using with ATS10 Table Stand:** For ultimate flexibility and portability, the optional ATS10 heavy duty table stand is ideal. Since the electronics for the MG12/15/18 are built right into the base of the microphone, all that is necessary is to plug the mic directly into the table stand connector on the top of the base. The mic cable will be plugged into the back of the base and connected to a low impedance mic level input on the mixer or recording device. Remember that phantom power is required in order to operate. There is a noiseless 2 position on-off switch located in the table stand. The down position is 'on' and the up position is 'off'. The LED indicator light will be lit when the mic is turned on. This is not a push-to-talk system so you need not hold down the switch, just push and click to on or off position. A standard XLR-XLR microphone cable can be used to connect the ATS10 to the mixer or recording device. Consider the ATS1 series when programmable switching and/ or remote logic capability is required.

**To use on microphone stand:** The MG12/15/18 may be used on any standard microphone stand by using the DCCLIP. The XLR base of the microphone will snap securely into the DCCLIP and can be used at any angle.

Further miking techniques may be found at [www.audixusa.com](http://www.audixusa.com).