

LM-300A LM-300AL LM-301A

The Crown® LM-300A, LM-300AL and LM-301A are dual gooseneck microphones for lecterns, pulpits or similar applications. Each professional quality mic is an electret condenser type with a supercardioid pickup pattern.

The LM-300A has a built-in electronics module with an XLR connector. It plugs directly into a female 3-pin XLR-type panel connector. The LM-300AL is the same but with a 4-3/4-inch longer boom arm.

The LM-301A has a built-in 5/8-inch (15.88-mm)-27 threaded collar that can be screwed onto a mic stand, mic boom or an Atlas AD-12 male flange. Because of the unique design of the mounting collar, the mic cable can be routed either outside or inside the mounting collar. The LM-301A comes in two parts: microphone/cable and a cylindrical electronics housing.

Because of their supercardioid pickup pattern, these microphones reject more background noise, room reverberation, and feedback than a typical cardioid microphone.

The LM Series have a smooth, wide-range frequency response for natural reproduction of the singing or speaking voice. Very low frequencies are filtered out to reduce pickup of mechanically induced noise, room rumble, etc. The gooseneck adjusts silently.

Supplied with the microphone is the WS-9, a highly effective foam pop filter. Its two-stage design greatly reduces explosive breath sounds. A low-cut switch built into the electronics housing further reduces breath pops and handling noise.

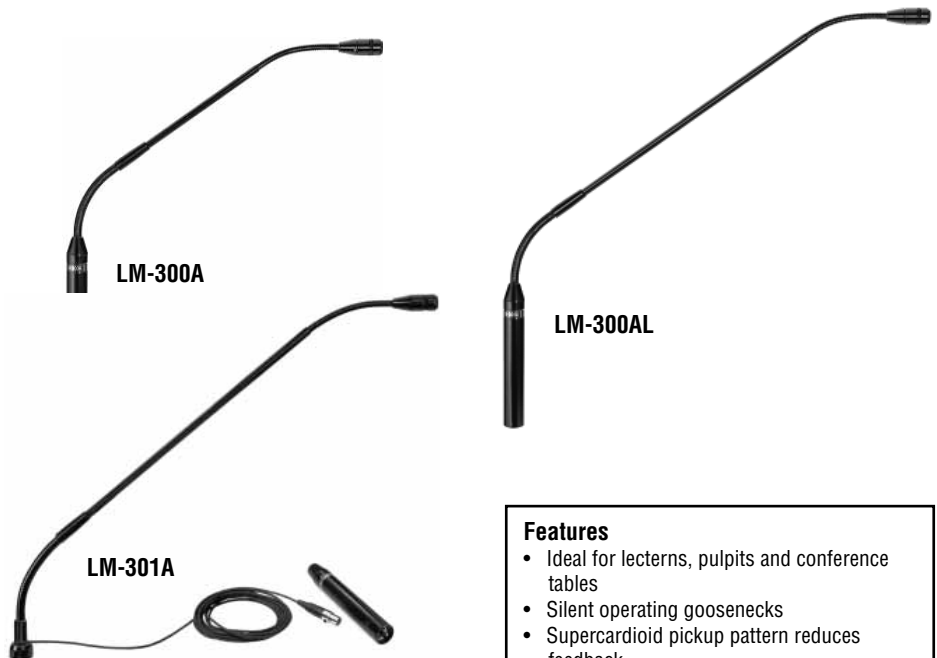
The microphone output is a male 3-pin XLR-type connector and is balanced, low impedance, which allows long cable runs without hum pickup or high-frequency loss. Superior RFI protection is also provided.

LM-301A Operating Instructions

Please refer to Fig. 3, LM-301A, to identify the parts mentioned.

1. To route the mic cable inside the mounting device: remove the TA3F connector, push the collar up onto the gooseneck and pull the cable down through the collar. Reattach TA3F.
2. To route the mic cable outside the mounting device: remove the TA3F connector, push the collar up onto the gooseneck, route the end of the cable inside the collar and slot and pull the cable up through the collar and slot. Reattach TA3F. (Continued on back)

SUPERCARDIOID CONDENSER DUAL GOOSENECK LECTERN MICROPHONES



Specifications

Type: Unidirectional condenser.

Element: Electret condenser.

Frequency response (typical): 80 Hz to 15,000 Hz (110 Hz to 15,000 Hz with low cut). See Fig. 1.

Polar pattern: Supercardioid. See Fig. 2.

Impedance: 150 ohms, balanced. Recommended minimum load impedance 1000 ohms.

Open-circuit sensitivity: 6 mV/Pa* (-44.5 dB re 1 V/Pa*).

Power sensitivity: -42 dB re 1 mW/Pa*.

Equivalent noise level: 28 dB SPL typical (0 dB=0.002 dyne/cm²), A-weighted.

S/N ratio: 66 dB at 94 dB SPL.

Maximum SPL: 120 dB SPL produces 3% THD.

Polarity: Positive pressure on the diaphragm produces a positive voltage on pin 2 with respect to pin 3 of the output connector.

Operating voltage: Phantom power, 12 to 48 volts DC, positive voltage on pins 2 and 3 with respect to pin 1 of the output connector.

Current drain: 3.5 mA.

Cable (LM-301A only): 10' (3.05-m) 2-conductor shielded 0.1" diameter cable integral to microphone terminated with Switchcraft TA3F.

Connectors (LM-300A, LM-300AL): 3-pin male XLR type in electronics interface.

Connectors (LM-301A): Switchcraft TA3F on mic cable, TB3M and 3-pin male XLR type in electronics interface.

Safe operating temperature range: -10° to +50° C, or +14° to +122° F.

Materials: Steel housing and gooseneck.

Finish: Black.

Features

- Ideal for lecterns, pulpits and conference tables
- Silent operating goosenecks
- Supercardioid pickup pattern reduces feedback
- Slim, elegant design and natural sound
- LM300A and LM300AL (longer) have built-in XLR connectors
- LM-301A has threaded collar

Weight:

LM-300A: 5.0 ounces (145 grams).

LM-300AL: 5.5 ounces (159 grams).

LM-301A: 5.5 ounces (159 grams).

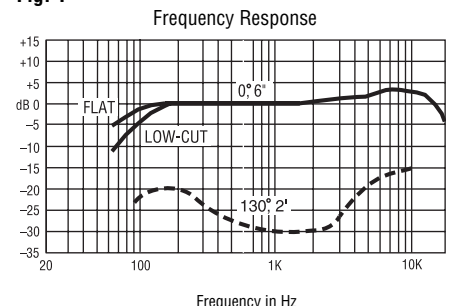
Dimensions: See Fig. 3 on reverse side.

Included accessories: WS-9 foam pop filter (Fig. 4).

Optional accessories: WS-5 foam windscreen, PH-1A phantom power supply (1 channel, battery or AC adaptor powered), ASA-4 mic stand adapter for LM-300A and LM-300AL.

*1 pascal = 10 microbars = 10 dynes/cm² = 94 dB SPL.

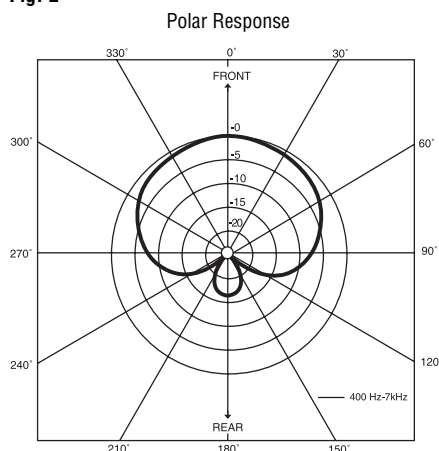
Fig. 1





LM-300A LM-300AL LM-301A

Fig. 2



All Models: Operating Instructions

1. Plug the electronics interface into a 3-pin XLR-type connector with its cable routed to the audio mixer.
2. At the mixer, plug the mic cable from the lectern into an input with 12-48 volt phantom power. Make sure the phantom power switch on the mic is on.
3. If phantom power is not available on your audio mixer, connect the mic cable from the microphone to an external phantom power supply such as a Crown PH-1A. Connect another mic cable between the phantom power supply output and a mixer mic input.
4. If mechanical noise or breath pops are excessive, use a pen or pencil to set the flat/low-cut switch in the electronics interface to "cut" (✓). Push the switch up to enable low cut.

5. Do not lubricate the gooseneck.

Architects' and Engineers' Specifications

The microphone shall be the Crown model LM-300A, LM-300AL, or LM-301A. The microphone shall be a supercardioid electret-condenser type with dual silent goosenecks.

Frequency response shall be uniform from 80 Hz to 15,000 Hz. The microphone shall be powered from 12 to 48 volts phantom powering. Open-circuit sensitivity shall be 6 mV/Pa. Impedance shall be 150 ohms balanced.

Maximum SPL capability shall be 120 dB SPL at 3% THD. Equivalent noise shall be 28 dBA typical (0 dB = 0.0002 dyne/cm²).

In the LM-300A and LM-300AL, electronics and connector for the microphone shall be in a rugged steel cylindrical housing at the end of the gooseneck. A flat/low-cut switch shall be built into the electronics housing.

In the LM-301A, electronics and connector for the microphone shall be in a separate rugged steel cylindrical housing. A flat/low-cut switch shall be built into the electronics housing. A TA3F connector at the end of the mic cable shall connect to the electronics. The microphone shall have a built-in $\frac{5}{8}$ -inch (15.88-mm)-27 threaded collar that screws onto a mic stand, mic boom or Atlas AD-12 male flange. The cable can be routed either outside or inside the mounting device.

The Crown Model LM-300A, LM-300AL, or LM-301A microphone is specified.

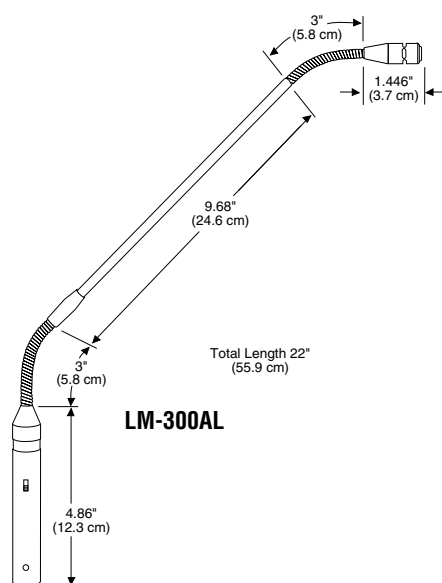
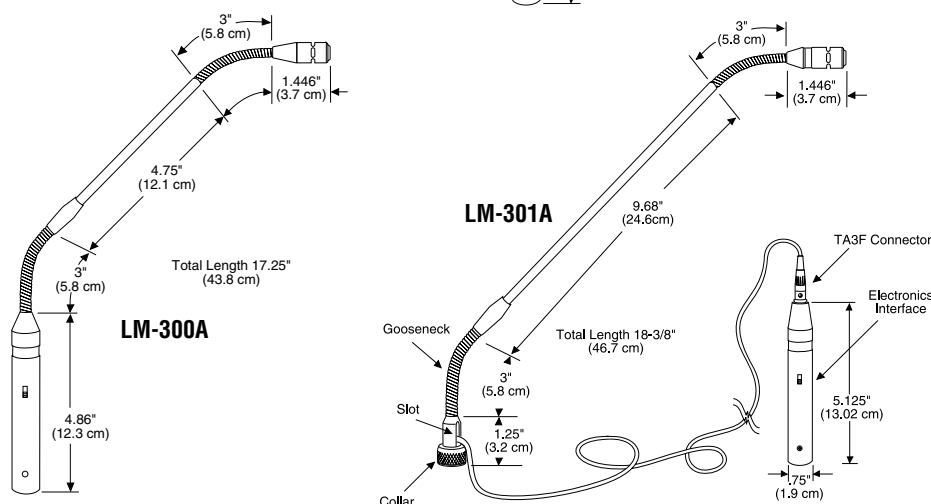


Fig. 3 Dimensions



Warranty

Crown professional microphones are guaranteed against malfunction for a period of three years from date of original purchase. See enclosed warranty sheet for additional information.

Service

If the microphone does not function properly, replace or repair mic cables and connectors, check the power supply.

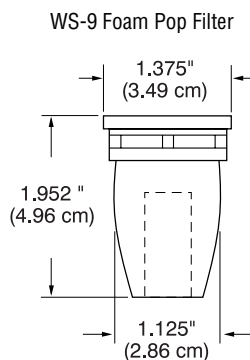
If you determine the microphone product(s) is defective, return the complete product (mic and interface) in its original packaging to **Crown Factory Service, 1718 W. Mishawaka Road, Elkhart, IN 46517-9439.**

A Service Return Authorization (SRA) is required for product being returned for service. An SRA can be completed on line at: www.crownaudio.com/support/factserv.htm.

The mic and electronics are a matched pair. Do not separate them. For service send them both in.

For further assistance or technical support call **800-342-6939.**

Fig. 4



H A Harman International Company

Crown International, Inc.
1718 W. Mishawaka Rd.
Elkhart, IN 46517-9439
TEL: 574-294-8000
FAX: 574-294-8FAX

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