

Superlux®

E322 GOOSENECK CONDENSER MICROPHONE

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E322

GOOSENECK CONDENSER MICROPHONE

GENERAL DESCRIPTION

The E322 is a miniature condenser capsule, gooseneck microphone for conference applications. Double bending for easy position setting. High quality electronics with integrated limiter for conference purpose designed frequency response. Cardioid pattern for high gain before feedback. The E322 is suitable for podium, speech, conference hall etc. The E322 gooseneck structure is special treated to reduce the bending noise to minimum. Sleek stylish for modern decor style. 2 length versions matched with black or white finish to various demands.

External accessible low cut filter out un-wanted noise.

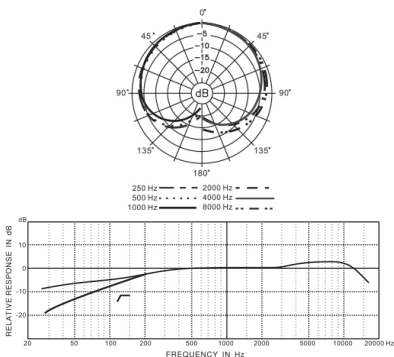
Standard supplied accessories for popular applications and mounting.

Optional accessories for various applications.

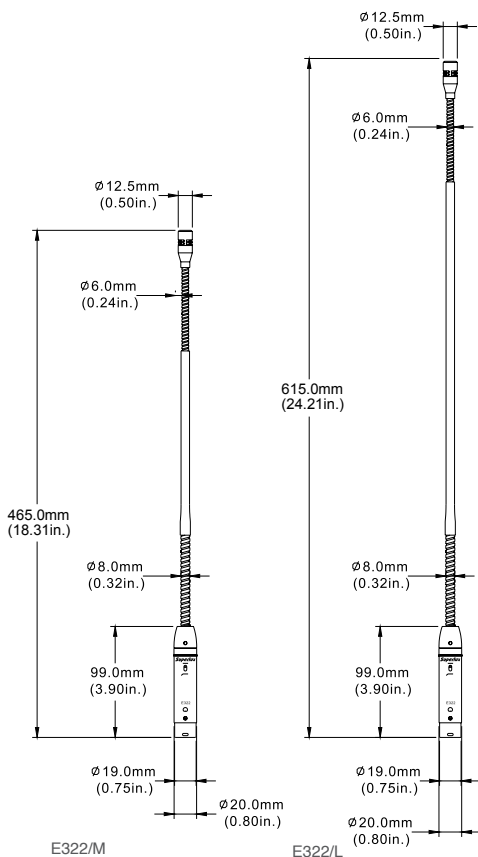
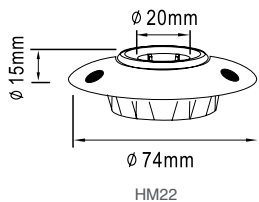
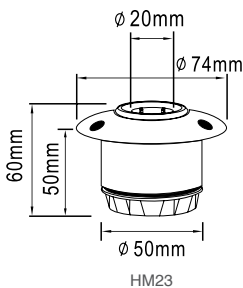
FEATURES

- Uni-directional, reducing feedback and environmental noise.
- Wide and uniform frequency response, large dynamic range for clean vocal pick-up.
- Balanced output, for long cable connection without interference.
- 2 length versions, double bending sections.
- Repeating bending to various angle without mechanical noise, and with no rebound.
- Miniature capsule maintaining minimum visual blocking.
- Supplied with standard conference mounting flange and wind screen.

E322 FREQUENCY RESPONSE



Assemble Dimensions



Unit: mm/inch

E322

GOOSENECK CONDENSER MICROPHONE

Specifications	*Note: Specifications are subject to change.
Type	Back Electret Condenser Microphone
Element	Pressure gradient, FET preamplifier
Polar Pattern	Unidirectional(Cardiod), Rotationally symmetrical about microphone axis, uniform with frequency.
Frequency Response	40 to 20,000 Hz
Sensitivity	-40 dBV/Pa (10 mV/Pa) 1 Pa -94 dB SPL
Rated Impedance	600 Ω
Minimum Load Impedance	2,000 Ω
Equivalent Noise Level	Less than 24 dB (IEC/DIN 651)
Max. SPL	127 dB SPL (THD $\leq$ 1% 1kHz)
Dynamic Range	103 dB
Polarity	Pin 2 output positive voltage (related to pin 3) when diaphragm receives positive pressure. (Diaphragm moving inward)
Low Frequency Roll-Off	100 Hz, 12 dB/OCT
Current Consumption	4 mA
Power Supply	12 to 48 VDC phantom power
Connector	Integral 3 pin male XLR type

*1Pa=10 microbars=94dB SPL

NET WEIGHT

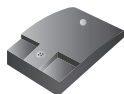
E322L: 220 grams (7.76 oz)

E322M: 160 grams (5.64 oz)

RoHS

The E322 including the product and packages follow the instruction of EU 2002/95/EC and comply to RoHS.

OPTINAL ACCESSORIES



DS002
Gooseneck mic base



GT6F
XLR3F fixing base



HM24
XLRF embedding
socket with naked cable

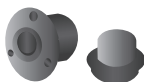
SUPPLIED ACCESSORIES



HM22
Standard base

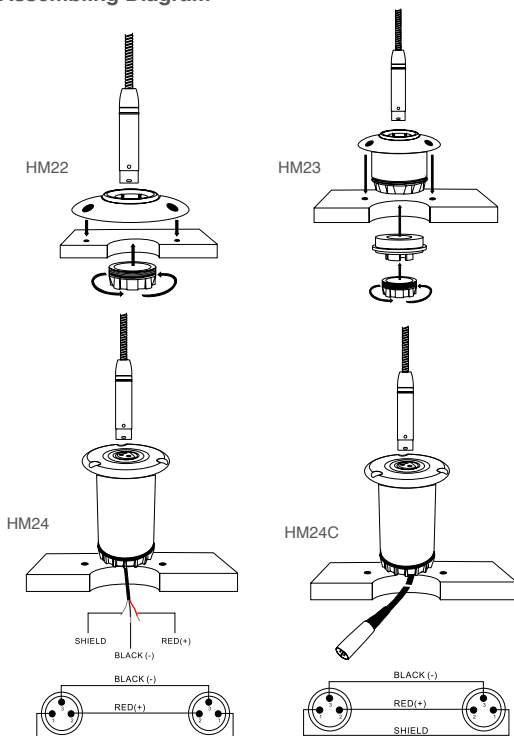


S21F
Foam windshield



HM23
Anti-shock cover
with lock-in device

Assembling Diagram



KNOWING YOUR MICROPHONE

Superlux provides variety selection of microphones for professionals and amateurs. To know your microphone is the first step to successful result.

TYPE OF TRANSUCER



CONDENSER

Extremely light weight diaphragm, very sensitive to sound. Very small versions available for hiding applications. High performance condenser microphones are regarded as standard equipment of recording studios for extreme detail capturing. Operates with power, such as phantom or battery.

POWERING MICROPHONE

Condenser microphones work with power. Professional standard is 48VDC phantom power. Some microphones work with lower voltage as low as 1.5VDC, such as battery power model. E322 work with 9~48VDC phantom only. Please make sure your sound system provide adequate power to the microphone.

ABOUT FREQUENCY RESPONSE

FLAT

Suitable for working at controlled environment, or for acoustic measurements. Although people pursuit flatness, but for none-professionals, it is a challenge to makes it works as expectation.

POPUPLAR CURVE RESPONSE

Based on years of practical experience of pro users. There are curves to be build for various applications, so that it is very simple to use the microphone for the purpose. Limiting bandwidth, and emphasizing are typical skill.

VARIABLE RESPONSE

Incorporating switchable filters to elliminates interference, such as sub-sonic filter to cut air-conditioner and floor vibrations. And allows full flat when used in controlled environment.

DIRECTIVITY



CARDIOID

Picks up most signal on axis. Rejects side and picks up least to the back. Suitable for live sound re-inforcement. Apparent proximity effect and most singer likes to take this bass boost advantages which is not good for speech.

USING CONDENSER GOOSENECK MICROPHONE

Uni-directional condenser microphone features very high sensitivity at -40 dBV/Pa for high intelligible speech application. Reduced off-axis sensitivity to keep lower background noise and maximized on-axis sensitivity for highest gain before feedback in live sound system.

User shall keep 15 cm to 40 cm from microphone, and maintain average speech level. Up close will result excessive bass due to proximity effect which interfere intelligibility. Maintain their speaking in front of the microphone for high gain before feedback.

Quality conference microphone incorporating built-in limiter to prevent distortion due to exciting user or close up speaker.

Choices of gooseneck for various demands. For aesthetic, single or double bend goosenecks are better choice over fully bend design. Low bending noise is another important feature of good gooseneck microphone. User shall not bend the gooseneck to hard or rush which may generate excessive noise which disturbs the audience.

In most cases, each attendee has his own microphone or share a microphone every 2 attendee. Although there are numbers of microphones in one space which is not a good criterion for feedback problem, system operator shall keep as less turn-on microphone as possible for best result. Auto-mixer is a good choice for multiple microphones installation which limit the number of turn-on microphone at the one time. Advanced auto mixer features dynamic threshold and auto gain reduction according to the number of turn-on microphones to keep the same system gain. Wind screen is vital for windy environment such as outdoor or close to air-conditioning fan. Keep capsule and wind screen clean for good audio performance.

MAINTAINENCE

Condenser microphone shall be kept in low humidity environment for best sound performance. Store the condenser microphones in airconditioned room or dehumidifier to keep away from moisture. Clean air is another important factor. Keep away from smoking environment to avoid tar residuals.

SAFETY PRECAUTIONS

Safety symbols-“WARNING” AND “CAUTION”- and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety hazards.



WARNING: Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



CAUTION: Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

WARNING



- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.

CAUTION



- Do not subject to extreme force and do not pull on the cable or failures may result.
- Keep the device dry and avoid exposure to extreme temperatures and humidity.

LIMITED WARRANTY

Superlux Enterprise warrants all materials and workmanship under use as instructed by the user's manual of this product for a period of one year from the original date of purchase. Warranty period might be different by each area. Please contact your local dealer for more information. If any defects are found in the materials or workmanship or if the product fails to function properly during the applicable warranty period, Superlux Enterprise, at its option, will repair or replace the product. This warranty applies only to equipment sold and delivered by Superlux Enterprise's authorized distributors or dealers. However, the following are not covered: Damage caused by accident, misuse, abuse, product modification or neglect; damage occurring during shipment; damage resulting from failure to follow instructions contained in your Instruction manual; damage resulting from the performance of repairs by someone not authorized by Superlux; claims based upon any misrepresentations by the seller; any Superlux product on which the serial number has been defaced, modified or removed. Service and repairs of Superlux products are to be performed only at a factory-authorized facility or authorized distributors or dealers. Unauthorized service, repairs, or modification will void this warranty. To obtain repairs under warranty, you must have a copy of your sales receipt from the authorized Superlux dealer where you purchased the product. It is necessary to establish purchase date and determine whether your Superlux product is within the warranty period. To obtain factory authorized service, please contact authorized distributors, dealers or mail to support@superlux.com.tw.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES CLASS B. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MUST NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION. SUITABLE FOR HOME OR OFFICE USE.