Superlux®
JUST PLAY IT

D302

Install Gooseneck
Dynamic Microphone

User Guide

GOANG-FANN CO., LTD.

LB100D30201EN (Rev. 1)

Specifications

Type
Dynamic Microphone

Polar pattern
Unidirectional (Super Cardioid), rotationally symmetrical about microphone axis, uniform with frequency. (Figure 1)

Frequency response
100 to 10,000 Hz (Figure 2)

Sensitivity
(at 1,000 Hz Open Circuit Voltage)
-56dBV/Pa (1.58mV/Pa) ±3dB 1Pa=94dB SPL

Rated impedance
500Ω

Minimum load impedance
500Ω

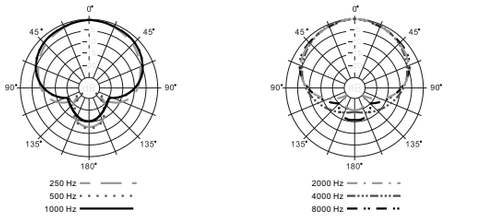
Connector
Wire out

Finish
Metal construction with black painted finish

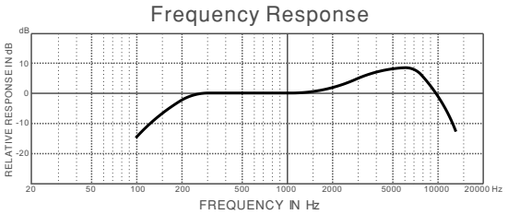
Environmental conditions
The D302 operates between -10℃ to +50℃(14℉ to 122℉) with relative humidity between 0 to 95%.

Dimensions
Φ40.5mm(1.59in.) X 300.0mm(11.81in.), Figure 3

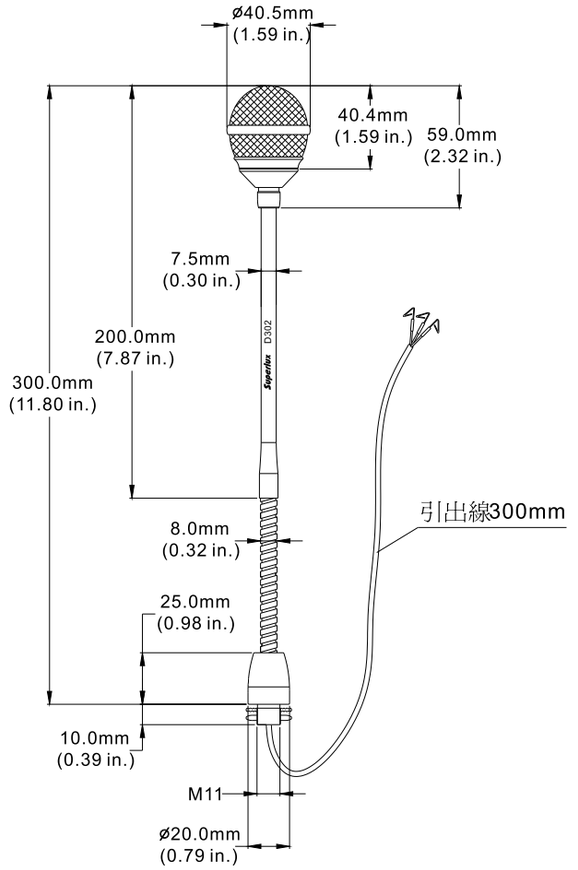
Net weight
150g (5.29oz.)



TYPICAL SUPERCARDIOID POLAR PATTERN (Figure 1)



TYPICAL FREQUENCY RESPONSE (Figure 2)



Dimensions (figure 3)

Description

The D302 conference style dynamic microphone, which is designed for speech, conference, and vocal. Incorporating high sensitivity and wide frequency response to precision sound pick up.

Simple mounting with tightening gaskets, to install the microphone onto a podium or to fix with 5/8" nut on a base.

Features

- Super Cardioid polar pattern to emphasis on-axis sound while suppressing surrounding noise.
- High dynamic range, wide frequency response and low distortion.
- 5/8" thread for easy mounting.
- 30 cm open end cable. Red for hot signal, white for inverting signal (cold), shield for grounding.
- Noiseless single bending with bend to set positioning performance.
- High performance foam wind screen to prevent pop noise.

Supplied accessories

Wind screen ---------- S40

S40
Wind screen

Knowing your microphone

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

Type of transducer

Dynamics

Durable and simple structure, operates in all kinds of environments. A good dynamic microphone is capable to operate at very high sound pressure level without distortion. Due to structure limit, dynamics cannot be built as small as condenser, but dynamics doesn require power to operate.

About Frequency Response

Flat

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

Popular 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 emphasing 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

Super Cardioid

Narrower than cardioid pattern. Suitable for multiple microphone setup. Least sensitive angle pointing toward side to rear where most stage monitors are located. Same proximity effect as cardioid microphone.

Using dynamic gooseneck microphone

Super Cardioid dynamic microphone features very high sensitivity at -43dBV/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

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

Superlux®

marketing and sales
Superlux, Taiwan
+886-2-26931323
sales@superlux.com.tw
manufacturing & logistics.
Superlux Enterprise
Development(Shanghai)Co., Ltd.

superlux.tw