

Superlux®



E525

Strong Directivity
Stereo Condenser Microphone

User Guide



GOANG FAN CO., LTD.

2011, SUPERLUX Inc.
LB100E52501EN V2.0

Specifications

Model No.

E525S: 236.3 mm long

E525L: 380.3 mm long

Type

Stereo Electret Condenser

Polar pattern

Strong directivity, selectable from MS, XY-W and XY-N stereo recording (Figure 1)

Frequency response

20 to 20,000 Hz (Figure 2)

Sensitivity

(at 1,000 Hz Open Circuit Voltage)

-34dBV/Pa (9.0mV/Pa) 3dB

1Pa=94dB SPL

Rated impedance

200Ω

Minimum load impedance

Equivalent noise level

(A-weighted)

22dB (IEC/DIN 651)

Max. SPL (1 kΩ load)

127dB SPL (THD≤1% 1kHz)

Dynamic range (1 kΩ Load)

105 dB

noise ratio-to-Signal

72 dB

Low frequency roll-off

100 Hz, 12dB/OCT

Power supply

Phantom power: 12~52V

Polarity

Pin 2+/3- for left output, pin 4+/5- for right output, and pin 1 is ground, positive voltage (related to pin 2 and 4) when diaphragm receives positive pressure. (Diaphragm moving inward)

Connector

Integral 5-pin XLRM-type

Finish

Metal construction with black painted finish

Environmental conditions

The E525 operates between -10°C to +50°C (14°F to 122°F) with relative humidity between 0 to 95%.

Dimensions

E525S: $\Phi 21.5$ mm(0.85 in.) x 235.0 mm(9.25 in.)

E525L: $\Phi 21.5$ mm(0.85 in.) x 380.0 mm(14.96 in.) (Figure 3)

Dimensions of windshield

S32: $\Phi 45.0$ mm(1.78 in.) X 162 mm (9.84 in.)

S33: $\Phi 45$ (1.78 in.) x 310 mm(12.2 in) (Figure 4)

Net weight

E525S: 103.0 grams (3.65 oz.)

E525L: 153.0 grams (5.42 oz.)

Description

The E525S and E525L are highly directional stereo electrets condenser microphone for video camcorder on-camera mount. Light weight design that adds minimum load to the videographer. Emphasis on-axis sound that synchronized with the elements in the picture. Selectable from MS and XY-W and XY-N stereo recording, makes E525 satisfy most of applications and the balanced tonal quality that also makes the E525 a good choice for live broadcasting, video and/or film productions.

Features

- Integral multiple stereo recording types offer flexible application
- Proprietary interference tube for a uni-directional capsule that results highly directivity.
- Low-noise and high dynamic range pre-amplifier minimized colorization.
- Flat and extended on-axis frequency response for clean and nature speech.
- ENG grade video production, and perfect mobility.
- Integrated low-cut switch
- Light weight aluminum alloy.

Supplied accessories

Foam windshield-----	S32 for E525S only
Foam windshield -----	S33 for E525L only
Camera shock mount -----	HM40C
Mic Cable-----	FM0.6AMM
Clips -----	HM37S
Threaded adapter-----	YA2
Bag -----	Carrying Bag



S32
Foam windshield



YA2
5/8"-3/8" Threaded
Adapter(Zinc alloy)



S33
Foam windshield



HM40C
Camera shock mount



FM0.6AMM
0.6m, 5-pin XLR to 2*3-pin XLRM



HM37S Clips



Carrying Bag

Related accessories

Shotgun mount -----	HM35
Camera shock mount-----	HM35C
Shock mount -----	HM40
Camera adapter -----	YA-10m
10m XLR 5-pin female to XLR 5-pin male -----	FM10AB
20m XLR 5-pin female to XLR 5-pin male -----	FM20AB
30m XLR 5-pin female to XLR 5-pin male -----	FM30AB



HM35
Shotgun mount



HM35C
Camera shock mount



HM40
Shotgun mount



YA-10
CAMERA ADAPTER

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 transducer



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. E525 works with 11 to 52VDC. 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.

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 emphasizing are typical skill.

Variable response

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

Directivity

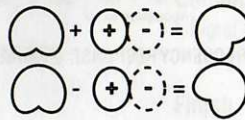


Shotgun

Based on interference tube theory, to achieve highest axial signal pick-up and rejects off-axis sound as much as possible. Due to poor wind noise rejection, suitable wind screen shall be used at outdoor.

How MS stereo works

MS comes from a Mid and a Side microphone. When the Mid and the Side microphone signal is mixed, the polar pattern became a directional microphone pointing toward Left. And mix the Mid and Side in reverse phase, the polar pattern became the same directional microphone pointing toward Right. The less Mid and more Side signal, will make the polar pointing toward outer angle. And the more Mid and less Side signal, will make the polar pointing toward center.



The beauty thing about MS decoded stereo, is you can always go back to mono by simply mix the L and R to mono, and the Mid signal comes back with almost no Side signal.

Knowledge user tend to use this type of microphone with MS output, and manipulate the MS decoding at the post production stage to determine the result he/she preferred.

Easy way to use this microphone is to set either narrow (less Side) or wide (more Side) while recording on site.

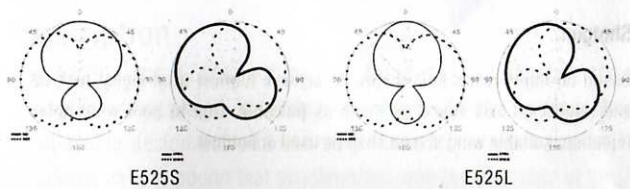
Since the stereo image width can be altered by changing the Side level, some stereo microphone claim they could do "Zoom" effect as the same as a video zoom lenses. Now you can do the same thing by setting the microphone at MS output, and use any popular NLE audio production software to do the same thing.

Superlux announced 3 new stereo microphone that is based on MS symbology: E525S, E525L and E527.

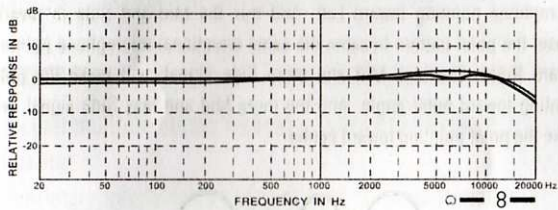
E525S and E525L combined "M" shotgun with "S" figure of 8. Both provides MS direct output and 2 different stereo width matrix output. These 2 are more suitable for video production, distant pick-up, and outdoor recording.

E527 is a large diaphragm condenser, combining "M" cardioid with "S" figure of 8.

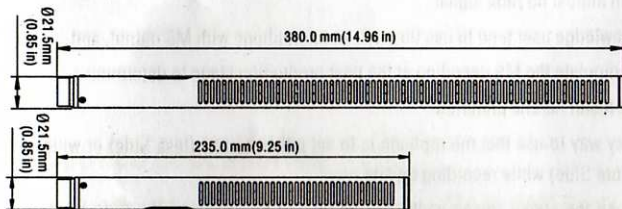
This microphone are very suitable for music recording and shorter distance pick-up.



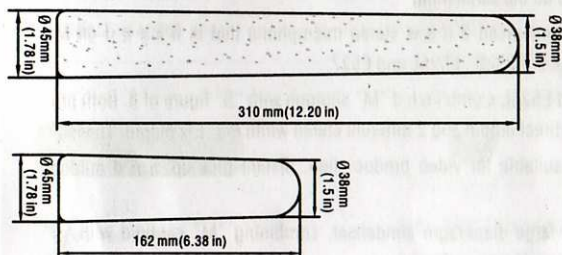
TYPICAL POLAR PATTERN (Figure1)



TYPICAL FREQUENCY RESPONSE (Figure2)



Dimensions (Figure 3)



Foam windshield (Figure 4)

Superlux®

marketing and sales

Superlux, Taiwan

+886-2-26931323

sales@superlux.com.tw

manufacturing & logistics.

Superlux Enterprise

Development(Shanghai)Co., Ltd.

<http://www.superlux.com.tw>

CE

Made in China