

## Pearl DS 60 Condenser Microphone

### MULTIPLE CHOICE STEREO MICROPHONE

This microphone offers stereo recording in different modes. The microphone contains two rectangular dual membrane capsules. It is the Pearl classical, designed in the -60's: The capsules are fixed mounted one above the other 90 degrees apart. These capsules capture the nuances of a live performance by achieving a very flat and resonance-free frequency response that extends deep into the lower frequencies and high into the upper frequencies .

During an X-Y recording, simply turn the microphone and direct the engraved X-Y sign towards the centre of the sound field.

For M-S recording, there is an engraved M-S sign to be used in the same way. The required microphone pattern is chosen at the console. This is the reason there are no switches on the microphone.

Further on, the microphone is phantom powered. A red LED shows that power is on. The pre-amplifier which is extremely quiet has four output channels, one for each cardioid membrane, connected via a 9 pin Lemo plug.

Each capsule provides 180 degrees coincident stereo. The operator decides how to use the signals, either cardioid, figure of eight, omni-directional, X-Y or M-S patterns or Blumlein.

The microphone is connected by a special cable consisting of a 9-pin Lemo at the microphone end and a four way splitter terminating in 3-pin XLR's to the console. The DS 60 is very versatile in many different recording situations. It is a natural choice for the concert hall yet just as well suited for church organs. Success is guaranteed when recording small groups such as a string quartet. The microphone is finished in black ED-lacquer and gold plated net.

The DS 60 comes in an aluminium flight case for the microphone complete with elastic suspension and cable.



#### Accessories:

- Stereo cable 9-4x3/10. 10 metres 8 core cable incl. 9 terms Lemo plug for the microphone and a four way splitter termination in 3-pin XLR's to the console.
- Shockmount 1942. Elastic suspension to prevent the microphone from mechanical vibrations. Incl. tilting 3/8" female thread.
- Aluminium case. Ample space for microphone, cable and Shockmount.



#### Specification:

Polar pattern:	Multipattern (4 cardioids)
Sensitivity:	16mV/Pa
Frequency response:	20Hz-25kHz
Impedance:	100 ohm
Operating voltage:	48V
Rec. min.load imp.:	1K ohm
Current consumption:	5,5mA
Self noise:	14dBA
Max SPL:	126dB
Dimensions:	195x42
Weight:	470 grams



Aluminium case

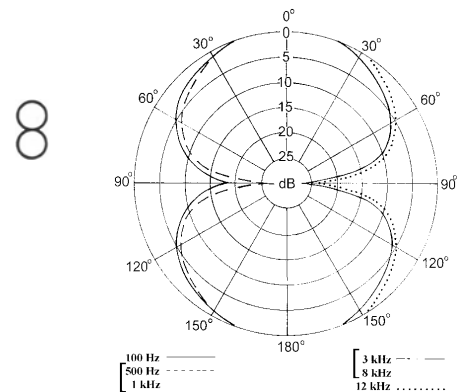
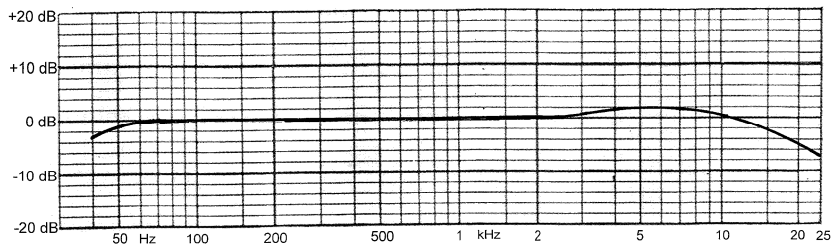
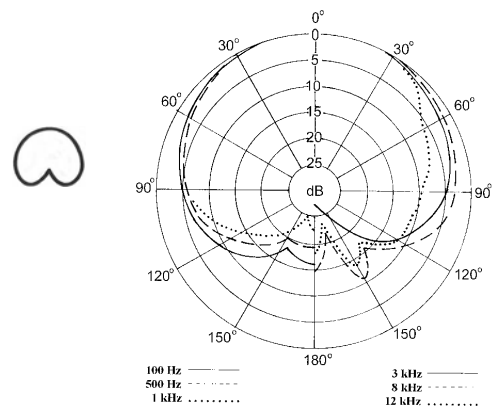
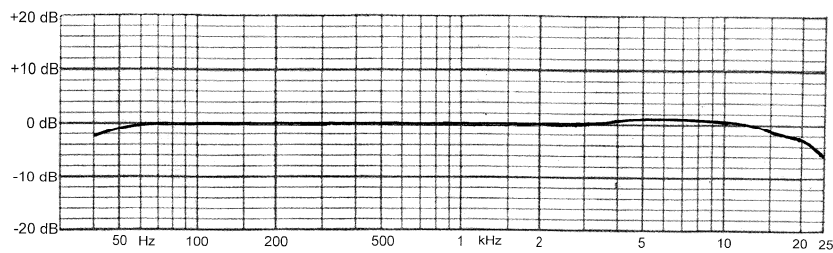
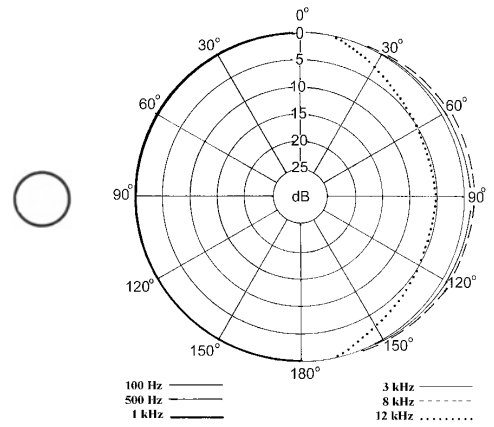
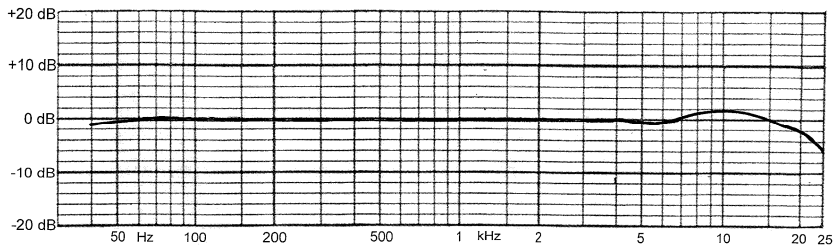


Stereo cable 9-4x3/10



RoHS Compliant  
Directive 2002/95/EC

# DS 60



Condenser Microphone Pearl DS 60  
Directions for use.

### How to achieve different patterns for the DS 60 microphones.

All patterns have to be selected at the console. There are no switches on the microphone. Each capsule has two cardioid patterns, one for each membrane, 180 degrees apart. By using phase shift and addition at the console, every pattern can be achieved.

1. If the signals from the membranes of one capsule are added for a mono signal, the recording characteristics become omni directional.
2. If the signals are added and one of them is phase inverted, the recording characteristics become figure of eight. By using the faders, all patterns in between can be obtained. Although there are only two dual membrane capsules, four cardioid patterns are available. These four cardioids, 90 degrees apart from each other, can be used simultaneously or independent of each other.

### Important.

1. Whenever cables are connected to the microphone they must be phantom powered.
2. The two cables to the top capsule must always be connected.
3. If only one capsule is to be used for cardioid, figure of eight or omni then the top capsule has to be connected.
4. Once the top capsule is connected with both plugs then either of the bottom capsules can be used.

### Stereo modes.

#### 1. M&S recording.

All plugs must be connected. Turn the microphone and direct the engraved sign to the centre of the sound field. The front membrane of the top capsule is the "M" channel. Use it as a cardioid (most common) or add a signal from the opposite membrane, (to record the audience for example).

The bottom capsule has to be mixed to figure of eight.

**Cables: Top = Red cable = "M" (Card.)**

**Bottom = Red and Yellow cables = "S" (fig. of eight)**

N.B.: Important, point two

#### 2. X/Y recording.

Connect both plugs from the top capsule and at least one from the bottom capsule. Point the X/Y sign to the centre of the sound field. Use one cardioid signal from each capsule, 90 degrees apart.

**Cables: Top = Red cable = "X"**

**Bottom = Red cable = "Y"**

N.B.: Important point two

#### 3. Blumlein recording.

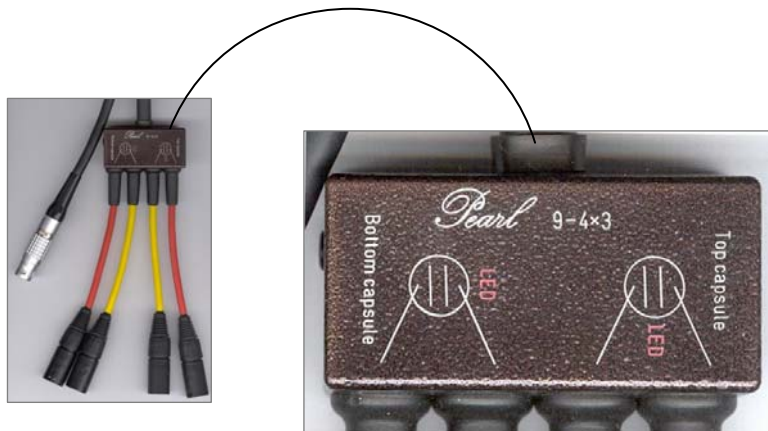
Point the microphone as X/Y above. Connect all plugs and mix both capsules to figure of eight.

**Cables: Top = Red and Yellow cables**

**Bottom = Red and Yellow cables**

### Microphone cable.

The engraved signs on the cable splitter box (Pearl 9-4x3) show the microphone from the top.



Four 3-pin XLR male connectors