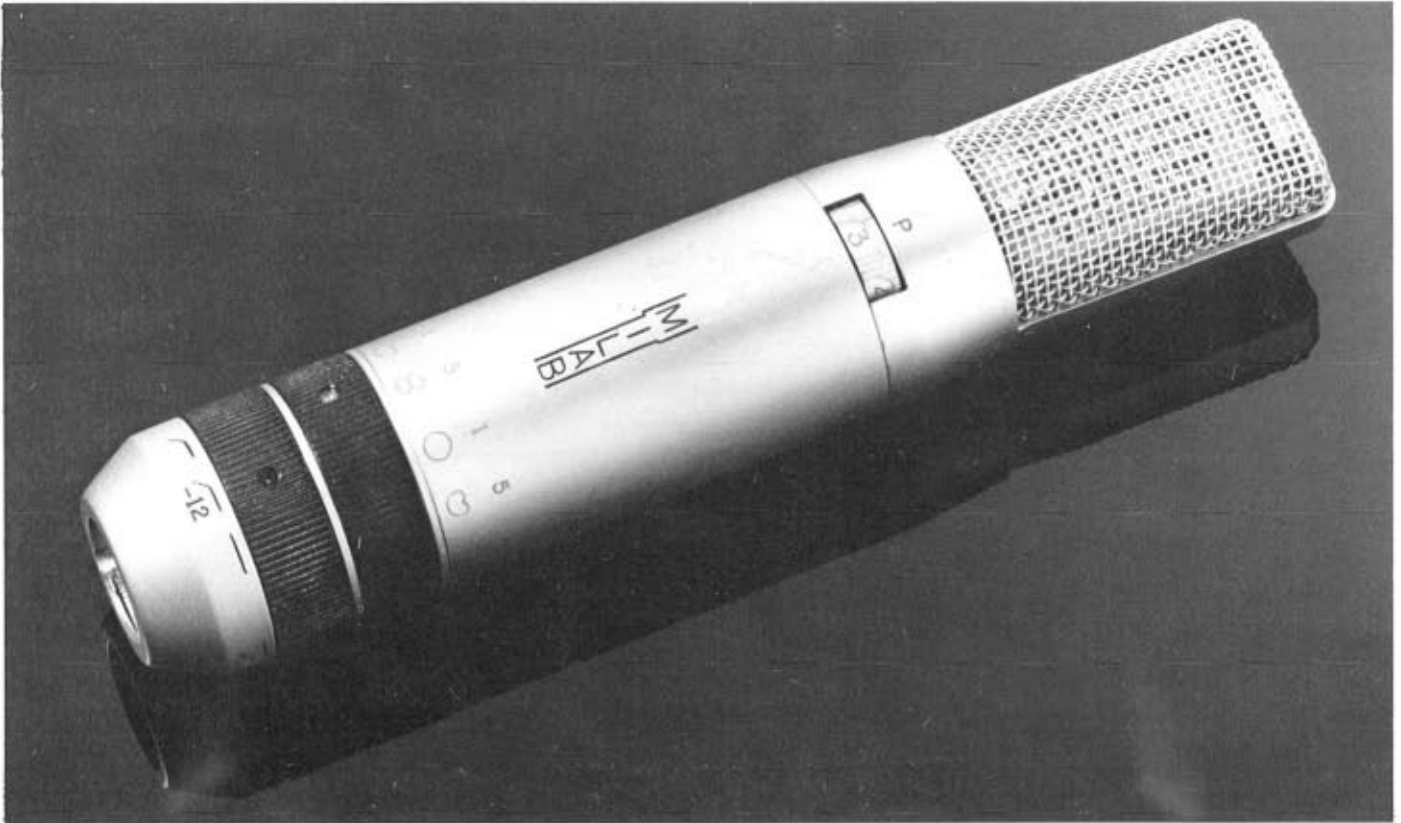


Condenser microphone DC 63

Variable pattern condenser microphone



Features:

The DC-63 is a variable pattern condenser microphone for operation on MIPOW system. The pick-up pattern is selected by a combination of two ring switches and a potentiometer on the microphone body. This provides 44 distinct combinations from Omni, Cardioid, Bi-directional and in-between settings, and a selection of 12 dB pad in flat or high pass response.

Description of the microphone:

- Unique rectangular dual membrane condenser capsule of full condenser type.
- Dual FET pre-amplifier.
- Two ring switches built around four reed switches.
- Capsule suspension of silicone rubber.
- 3-pin male XLR connector at the base.

Applications:

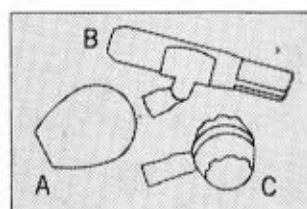
The DC-63 features low noise, high output level and extremely smooth frequency response both on and off axis. These qualities combined with great flexibility of operation the DC-63 make it ideal for professional studio recording and broadcasting applications requiring distant or close pickup of instrumental, vocal or choir, and wherever a wide-range, full natural sound is desired.



Technical data:

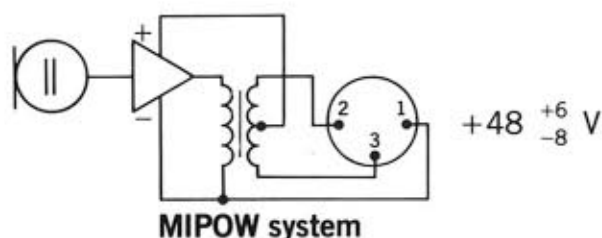
Directional pattern	Cardioid A	Omni-directional	Cardioid B	Bi-directional
Potentiometer setting	0	1	1 or 5	5
Operating principle	One dual membrane full condenser capsule			
Directivity index	18–20 dB		18–20 dB	22–25 dB
Frequency response	20–20.000 Hz	20–20.000 Hz	20–20.000 Hz	20–20.000 Hz
Sensitivity at 1 KHz with 12 dB pad (over 200 ohms re. 1 V.)	–42 dB/Pa –54 dB/Pa	–46 dB/Pa –58 dB/Pa	–46 dB/Pa –58 dB/Pa	–46dB/Pa –58 dB/Pa
Output at 1 KHz with 12 dB pad (over 200 ohms re. 1 V.)	8.0 mV/Pa 2.0 mV/Pa	5.0 mV/Pa 1.3 mV/Pa	5.0 mV/Pa 1.3 mV/Pa	5.0 mV/Pa 1.3 mV/Pa
Output at 1 KHz at max SPL (over 200 ohms re. 1 V.)	300 mV	300 mV	300 mV	300 mV
Maximum SPL less than 1% dist. with 12 dB pad	146 dB 156 dB	150 dB 160 dB	150 dB 160 dB	150 dB 160 dB
Self noise A-weighted (re. 2×10^{-5} Pa)	18 dB	20 dB	20 dB	20 dB
Dynamic range with 12 dB pad	128 dB 138 dB	130 dB 140 dB	130 dB 140 dB	130 dB 140 dB
S/N-ratio at 1 KHz A-weighted	76 dB/Pa	74 dB/Pa	74 dB/Pa	74 dB/Pa
Output impedance (balanced)	200 ohms			
Supply voltage	MIPOW system			
Operating voltage	24 to 54 volt (nominal +48 volt)			
Current consumption	0.8 mA			
Capsule suspension	Silicone rubber			
Connection	XLR 3 pin			
Dimensions in millimeters	158 long 31 diam.			
Weight in grams	325			
Finish	Satin Chrome			

Accessories:

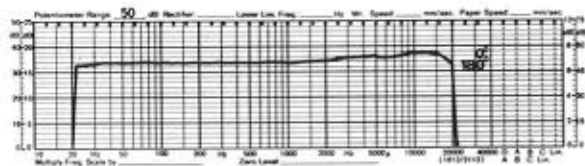


A Windscreen
B Stand adaptor
C Shockmount

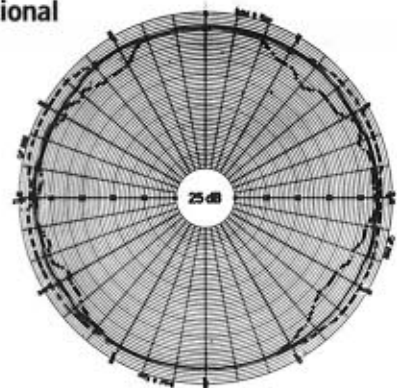
Accessories and description	Type
Microphone cable	3003 C
Stand adaptor (5/8" x 27 TPI)	1930/31
Shockmount (5/8" x 27 TPI)	1910/31
Windscreen (grey)	V-96
Windscreen Colored (red, yellow, blue, green)	VC-96
Mains power supply (110/220 VAC)	8320/S
Battery power supply	7325 C
Carrying case (mike only)	Case 63
Carrying case (complete)	Comp 63
Cardboard box	




Typical frequency response curve Omni-directional

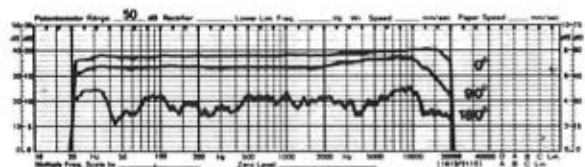


Hz
100-1000 ———
2000-8000 - - - -
12000 - · - · -

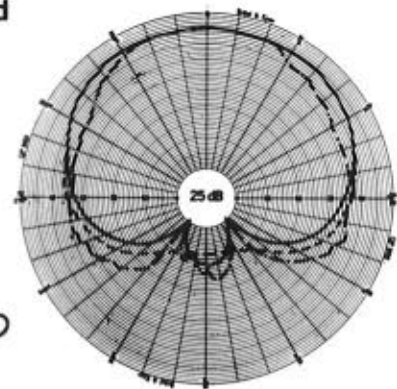


Potentiometer 1
Upper ring switch 
Lower ring switch —



Typical frequency response curve Cardioid



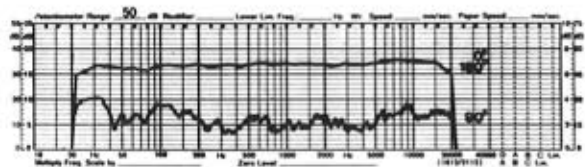
Hz
100-1000 ———
2000-8000 - - - -
12000 - · - · -



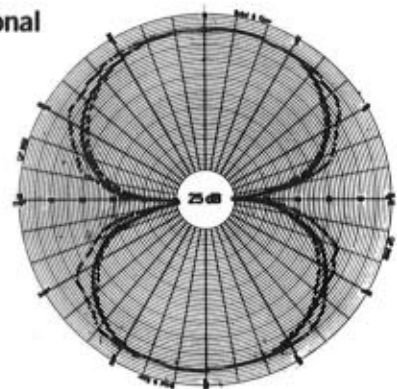
Cardioid A
Potentiometer 0
Upper ring switch —
Lower ring switch —


Cardioid B
Potentiometer 1 5
Upper ring switch  
Lower ring switch — —

Typical frequency response curve Bi-directional



Hz
100-1000 ———
2000-8000 - - - -
12000 - · - · -



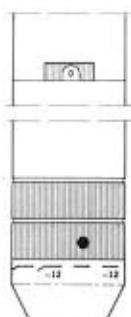
Potentiometer 5
Upper ring switch 
Lower ring switch —

The two ring-switches are independent of each other as shown in figures below.

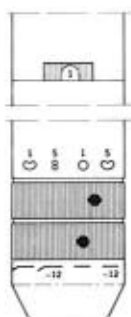
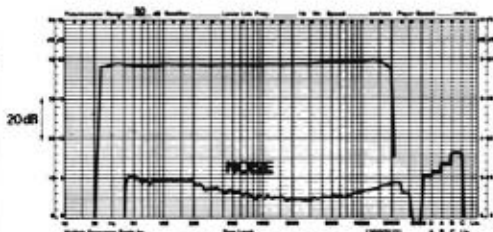
The potentiometer and the upper ring-switch are interdependent unless the potentiometer is set at "0". In this "0" position, the microphone remains fixed in Cardioid A pattern.

The lower ring selects maximum sensitivity or 12 dB pad, in both combination with flat or high pass response.

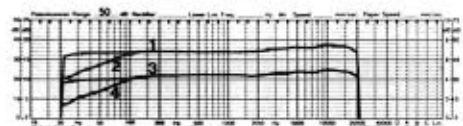
The upper ring together with the potentiometer selects the different pick-up patterns of Omni, Cardioid, Figure-eight or in-between settings.



Typical frequency response curve



Typical frequency response curve



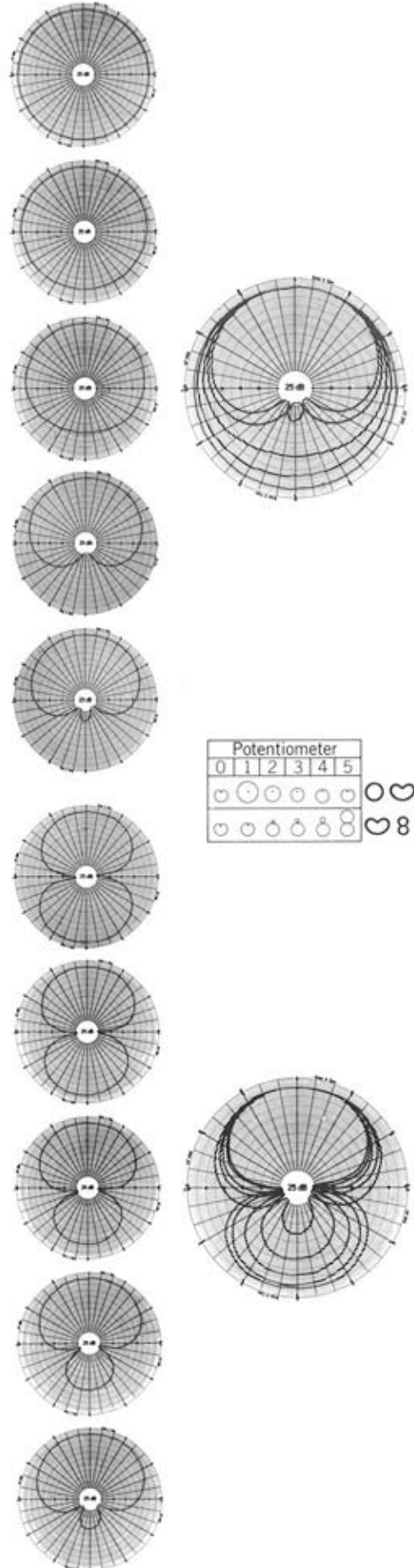
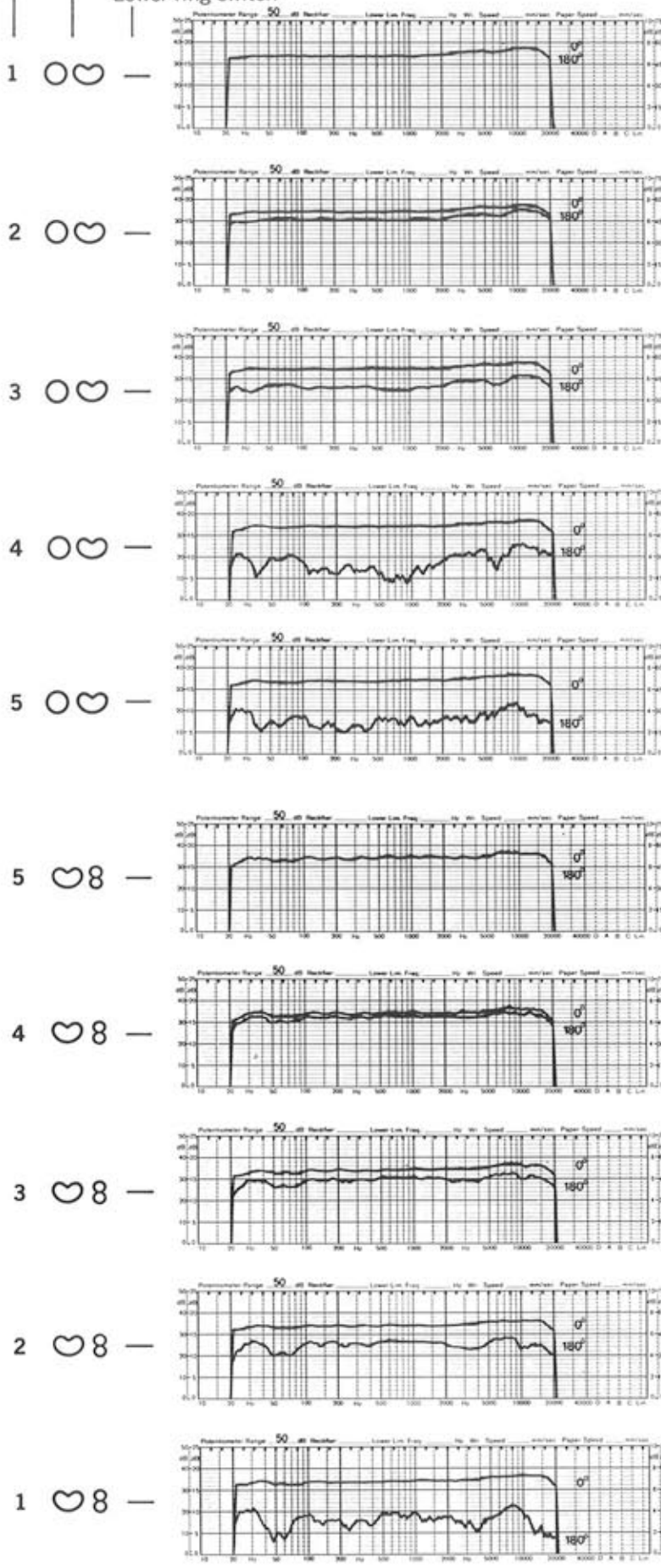
1

2

3

4

Potentiometer
Upper ring switch
Lower ring switch



Potentiometer						
0	1	2	3	4	5	00
0	0	0	0	0	0	
0	0	0	0	0	0	08

We reserve the right to alter specifications without notice.

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