

CONDENSER MICROPHONE

C-37A

SONY CORPORATION

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CONDENSER MICROPHONE C-37A

High quality variable-directional condenser microphone Model C-37A for professional use (TV, BC) has been successfully developed by Sony Corporation and is now available in the market. Directional characteristics is easily changeable for use in Studio and Auditorium. Features are stable, trouble-free operation; noise-free; exceptionally smooth frequency response and sturdy construction.

CONSTRUCTION

This microphone set consists of a microphone (C-37A) and a power-supply (CP-2). At the upper part of the microphone is a capsule mounted in the protecting cover which consists of a double layer of different metal gauze, and the lower part is statically shielded with metallic case which houses 6AU6 and all essential parts of the single stage amplifier.

Specially designed plastic diaphragm with a thickness of only 6 μ (= $1/1,000$ mm), coated on one side by a sputtering process with pure gold having a thickness of 0.3 μ , is used with great advantages.

This insulating foil gives protection against accidental short circuits between the metallic side of the diaphragm and the fixed electrode, high stability and exceptionally smooth response.

By turning the little screw, provided at the back of the cover, to left or to right, directional characteristics can easily be changed, from uni-directional (U) to non-directional (N) and vice versa.

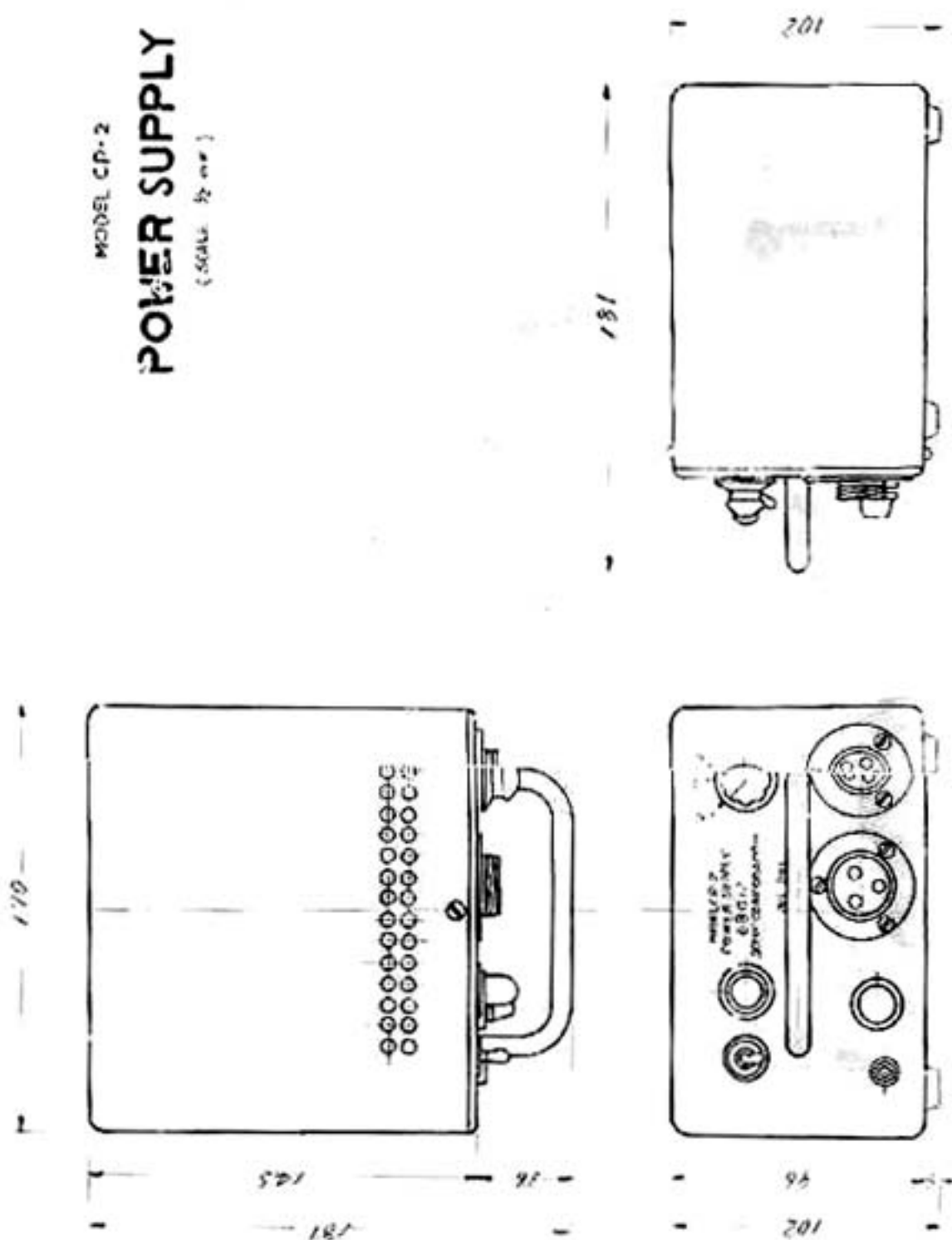
USES

The mike is supplied from power-supply (CP-2) and the distance between mike and power-supply can be extended to 240 ft., causing no change in characteristics. 30 ft. (CP-10) or 60 ft. (CP-20) of extension cable with 200-5P connector is available. Three frequency responses are obtainable by means of a switch (V, M₁ & M₂) provided on the panel of power-supply.

SPECIFICATION

Type:	Condenser Type
Directional Characteristics:	
Non-directional:	Becomes directional at 3,000 c/s
Uni-directional:	The maximum front-to-back sensitivity difference is more than 15 db in the range of 20 - 15,000 c/s
Output Impedance:	200 ohms
Output Level:	
Non-directional:	-70 db (0 db=1 volt/dyne/cm ²)
Uni-directional:	-72 db (0 db=1 volt/dyne/cm ²)
S/N:	More than 45 db for signal of 1 micro-bar at 1,000 c/s
Frequency Response:	
Non-directional:	30 - 16,000 c/s
Uni-directional:	30 - 15,000 c/s
Power Supply:	Alternating current 50 or 60 c/s 100 or 117 volts
Finish:	Gray plating and satin chromium
Stand Screws:	1/2" pipe thread (5/8" 27 thread)
Dimensions:	Refer to illustrations Fig. 1 and 2
Weight:	
Microphone:	1.1 lbs.
Power supply:	6 lbs.
Cable:	Outside diameter 9/32" (7mm) (rubber-jacketed)
Tubes:	6AU6 (1) for amplifier 6X4 (1) for rectifier

MODEL CP-2
POWER SUPPLY
(SCALE 1/2"=1")



FREQUENCY RESPONSE OF C-37A MICROPHONE

Output level: Uni-directional -72db (0db = 1V/10cm/sec)
 Non-directional -78db ()
 Output impedance: 200 ohms

