

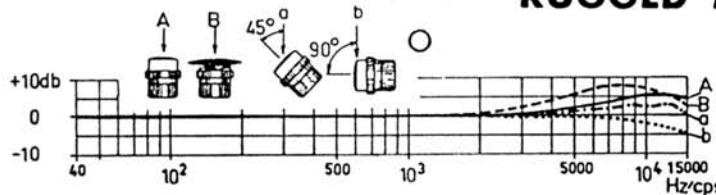
TELEFUNKEN

microphones...

for life-like fidelity

TAKES THE PLACE OF 5 OR 6 ORDINARY MICROPHONES

RUGGED MICROPHONE CM51



The Condenser Microphone CM51 is a high quality studio microphone. Three different cartridges may alternately be used with this microphone. A bayonet socket insures their easy and rapid interchange. The complete pre-amplifier in the base is fitted with an internationally used tube.

MICROPHONE CM51/U

A mechanical switching arrangement allows variation of the directional response of this microphone from omni-directional to cardioid by turning the rim on the cartridge body to one of its marked end positions. The detachable plexi-glas shutter is slid into place for use in the "cardioid" position to obtain the sharp cut-off in the response to sounds from behind the microphone. In the "omni-directional" position, the microphone may be operated with or without the shutter giving the different frequency response characteristics shown.

The frequency response of the microphone increases at the high frequency end under vertical incidence (0°), as is generally desired.

CM51/U CONDENSER MICROPHONE (PRE-AMPLIFIER)

a) Directional response	variable omni-directional/cardio
b) Frequency response	40-15,000 cps. ± 2 db.
c) Output level	Cardioid: 1.4 mV per dyne/cm ² approx. Omni-dir.: 0.8 mV per dyne/cm ² approx.
at 1000 cps/1000 ohms	

Frequency response with cartridge CM51/U in the position "omni-directional" with and without shutter (B, A), and under different angles of incidence (a, b).

The microphone is independent of temperature and humidity over a wide range, and is not affected by stray fields; it may, therefore, be used under rough operating conditions.

for best reproduction quality ("presence"). For other angles of incidence, the "presence" effect decreases according to the graphs given.

All condenser elements have metal diaphragms. Their performance remains practically unaffected up to temperatures of 175° F.

A rotary bayonet socket on the amplifier body allows horizontal adjustment of the cartridge.

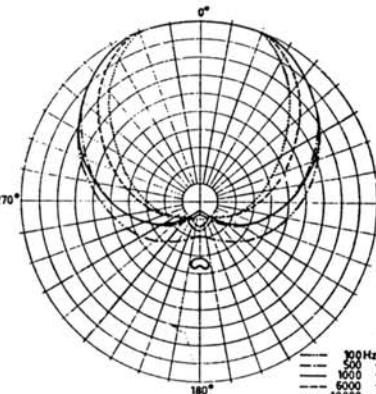
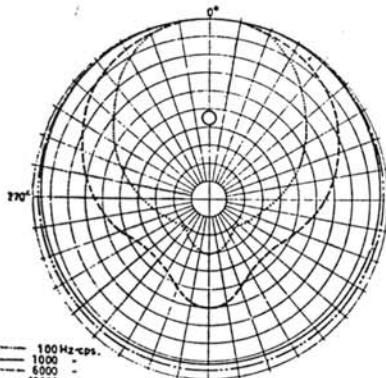
The amplifier case with top may be slid off after driving the two screws on the bottom fully in. The non-microphonic, low-noise 6 AU 6 is employed as the amplifier; it is plugged into a socket for speedy replacement.

& PLUG-IN ELEMENT)

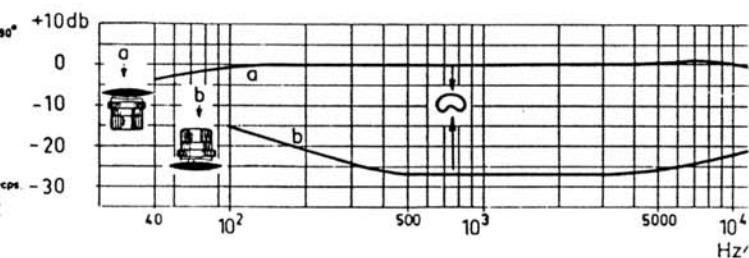
Output impedance	200 ohms or 50 ohms
Non-linear distortion	Less than 1%
Tube	6 AU 6
Length	6-21/32"
Diameter	1-15/32"
Weight	6 1/4 oz.

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Frequency response with condenser element in the position "cardioid" at acoustic radiation from in front with respect to radiation from behind. The distance between the two curves shows the degree of rear-rejection.



POWER SUPPLY UNIT CMN 51/9

The Power Supply Unit CMN51/9 is intended for use with the Condenser Microphone CM51. It is built into a portable metal case. Power switch, fuse, and pilot lamp are mounted on the front panel. A power cord of 8 feet is permanently attached to the instrument. On the rear panel are a 5-point connector for the microphone cable and 3-point connector for the audio output.

TECHNICAL DATA:

Plate voltage	150
Plate current	1 mA approx.

Heater voltage	5.7 volts
Heater current	0.3 A approx.
Power supply	110-125 V/50-60 cycles
Power consumption	16 watts
Pilot lamp	7 V, 0.3
Fuse	0.2
Dimensions	4 1/2" x 5 1/4" x 9"
Weight	6 lbs. 11 oz.

ACCESSORIES TO CONDENSER MICROPHONE CM51

Standard Accessories: Microphone Cable CMKV-51/9 to connect microphone and power supply, 33 feet long, also suitable as extension cable.
Ball-Joint Mounting Adapter SIG-51/9. Used as the mounting element between microphone and stand. The ball-joint may be locked in any position for the adjustment of the

microphone to the direction of sound. The adapter provides insulation between microphone and stand and is fitted with a shock absorber against floor vibrations.
Protector Screen W-51/9 to suppress noises from wind, and to protect the microphone from excessive sounds (aspirates) when speaking into it at very close range.



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