

- Condenser microphone for broadcast and sound recording studios.
- Extremely wide frequency range.
- Remote control unit to select 9 different directional patterns.
- Changing of pattern during actual program pick-up, without disturbing noise or changes in level.
- Equally high sensitivity at all directional patterns for highest quality reproduction.
- Each microphone supplied with a set of actual frequency response curves.

The C 12 condenser microphone^{†)} is especially designed for use in sound recording and broadcast studios. The frequency response extends above the limits of audibility. The C 12 permits the instant selection of the most suitable directional pattern. Since the remote selection unit can be operated during actual program pick-up, it is also possible to create unusual acoustic effects. The C 12 is a microphone with a very flat frequency response combined with a high front to back ratio in the cardioid position and exceptionally good discrimination in the bi-directional position. The C 12 condenser microphone uses the pressure-gradient principle and makes use of a twin diaphragm system with its maximum sensitivity in opposite directions. By means of suitable polarizing voltages to both half-systems of the capsule, the polar diagram can be selected. The remote control unit S 12 consists of a potentiometer and may be located up to 100 m (300 ft) from the microphone.

The microphone amplifier, the 5-star tube 6072 and the capsule can, if faulty, easily and immediately be replaced by new components. For outdoor use we supply the wind screen W 43, if specified. For owners of a W 25 A wind screen an A 25 A adapter is available. With this adapter the W 25 A fits the C 12 and C 24.

The elastic suspension H 12 is suggested to be used when the C 12 is operated on booms.

†)

PATENTS: Austria Pat.no.180313
 Western Germany DGM1714870



C 12



POWER SUPPLY UNIT N 12

The N 12 power supply unit supplies the required power for the pre-amplifier contained in the C 12. The N 12 is entirely stabilized by a transistor amplifier and a Zener diode. This fact does not only make the microphone independent of mains fluctuations but also independent of the cable length between power supply and C 12. Also the C 12 may be pulled off from the supply cable without turning off the power.

The N 12 can be used on most mains voltages. The selection switch is on the bottom of the N 12. The N 12 is housed in a metal case with hammertone finish and PVC covered edges. The N 12 is also used to feed other AKG Condenser Microphones such as the C 28A, C 29A, C 30A, C 60 (with RG 60) and future models.

Condenser Microphone

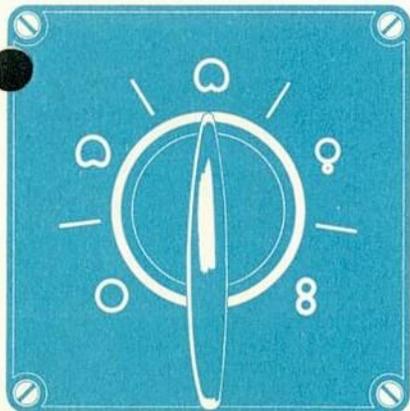
REMOTE CONTROL UNIT S 12

By turning the control button of the remote control unit (which may be built into the studio control console) the sound engineer can select the most suitable pick-up pattern for each phase of the program. He can adjust the microphone to the reverberation of the individual studio. By altering the directional characteristics he can create the impression of moving away from or approaching the microphone. Many acoustic effects thus available put the pick-up technique on an entirely new basis.

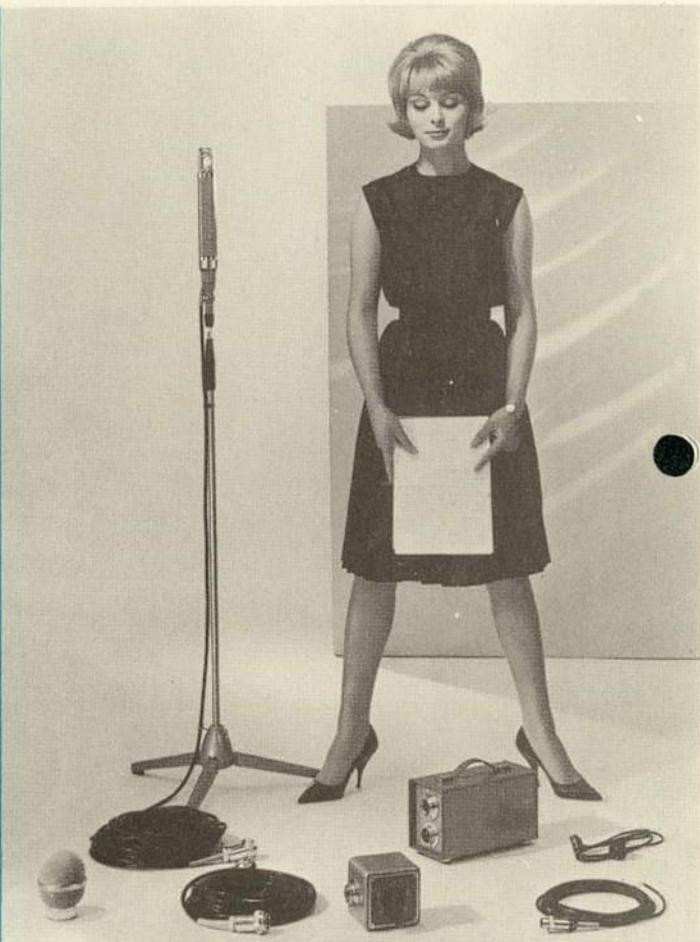
The built-in preamplifier utilizes a type 6072 tube and may be connected to the associated power supply by a cable length of up to 300 ft. A 65 ft connection cable is supplied normally. The remote control unit is connected by cable to the power supply unit. On the control unit the selection of the three basic directional characteristics

omni-directional
cardioid and
bi-directional

as well as all intermediate patterns is accomplished.



Parts supplied



PARTS SUPPLIED

Microphone C 12 including velvet lined case KS 12
Power supply unit N 12
Remote control unit S 12
Microphone cable MK 12 including connectors
8B26 spez and 6B26B
Remote control cable R 12 including connectors
6S26A and 6B26B
Audio frequency cable NF 12 including connector
3S17B
Power supply mains cable NK 12 including plugs
Set of individual response curves.

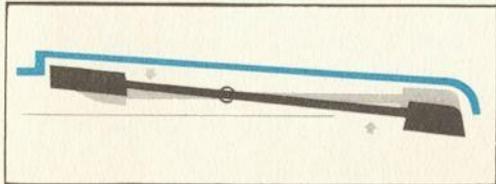
PARTS THAT CAN BE SUPPLIED SEPARATELY

Elastic suspension H 12
threads: male 3/8" (to fit C 12), female 3/8",
1/2", 5/8" - 27
length 76 mm, diameter 30 mm, weight 95 g
Windscreen W 43
diameter: 92 mm,
height: 120 mm
weight: 250 g
Anti-shock floor stand St 200: ask for individual
leaflet.



The high sensitivity of the C 12 in the extremely low frequencies places special requirements on reduction the floor-borne sound. We suggest to use the St 200. The anti-shock stand St 200 is designed to prevent structure-borne sound from the microphone.

- This is the St 200 secret of the high filter action: effective for vertical and horizontal floor vibrations.



C12

+ ST 200

Technical Data

Frequency range:	30...20 000 cps
Frequency response:	see curve
Directional effect:	omni-directional: none cardioid: better than 20 db front-back ratio bi-directional: 20 db discrimination
Sensitivity:	1.0 millivolt per microbar at no load (200 ohms)
Equivalent noise level:	less than 22 db
Output impedance:	50/200 ohms (change solder lugs)
Tube complement:	1 x 6072
Filament voltage:	6.3 vdc at 175 ma
Plate voltage:	120 vdc at 0.7 ma
Connection:	50/60 cps ac 110/125/145/220/245/ volts (rotary selector on base plate).

Dimensions

Microphone C 12

length 255 mm (shell only), 380 mm (connectors incl.), diameter 42 mm,
weight 520 g net, 810 g including case KS 12

Power supply unit N 12

length 252 mm, height 151 mm, width 110 mm, weight 3600 g

Power supply mains cable NK 12 (including plugs)

length 2 m, weight 90 g

Remote control unit S 12

length 110 mm, height 130 mm, width 110 mm, weight 770 g net

Microphone cable MK 12 (including connectors)

length 20 m, weight 2000 g

Remote control cable R 12 (including connectors)

length 10 m, weight 1050 g

Modulation cable NF 12 (including connector)

length 5 m, weight 260 g

Airfreight gross weight of complete set without optional accessories 11 kg.

CONDENSER MICROPHONE

Type C 12



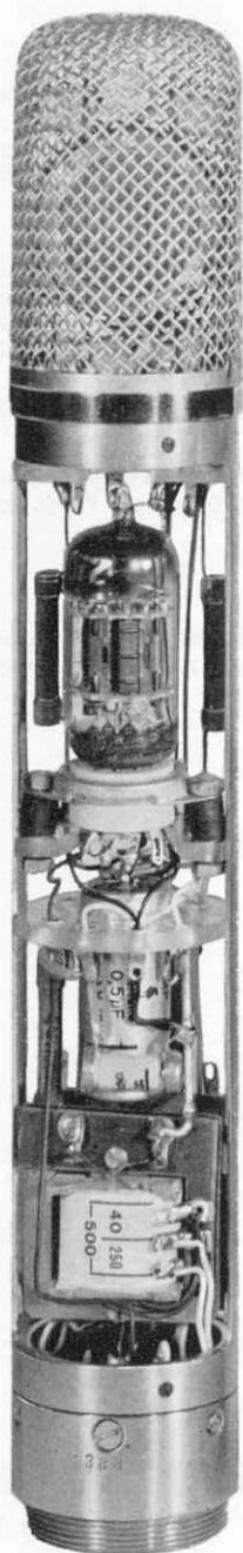
**WITH REMOTE CONTROL OF
DIRECTIONAL CHARACTERISTICS
DURING PROGRAM PICK-UP**

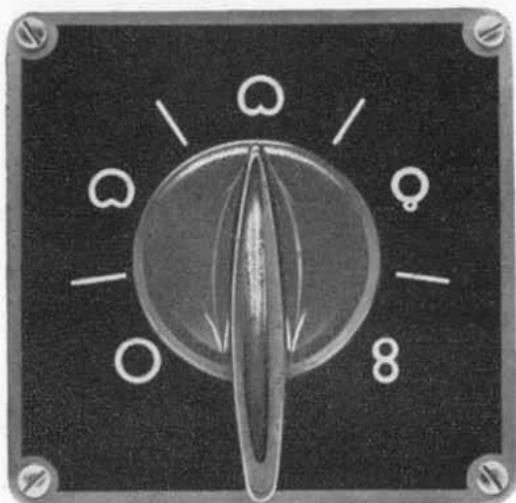


The C 12 condenser microphone opens up new ways of program pick-up technique by the remote control facility of the directional characteristics. Change of the pick-up pattern is possible at the remote control unit while the program is in progress without clicking or changes in level.



Especially designed for use in sound recording, broadcast-, TV- and motion picture studios, the frequency response of the C 12 has been extended above the limits of audibility. The most important technical improvement incorporated in the C 12 microphone is the remote control facility of its directional characteristics.





By turning the control button of the remote control unit (which may be built into the studio control console), the sound engineer can select the most suitable pick-up pattern for each phase of the program. He can adjust the microphone to the reverberation of the individual studio. By altering the directional characteristics he can create the impression of moving away from, or approaching the microphone. Many acoustic effects thus available put the pick-up technique on an entirely new basis.

The C 12 is of tubular design and appr. 1½" in diameter.

The built-in preamplifier utilizes a type 6072 tube and may be connected to the associated power supply by a cable length of up to 300 ft. A 65 ft. connection cable is supplied normally. The remote control unit is connected by cable to the power supply unit. On the control unit the selection of the three basic directional characteristics

omni-directional
cardioid and
bi-directional

as well as all intermediate patterns is accomplished.

The cable between control unit and power supply unit may have any length up to 600 ft. The control unit can be installed in program control consoles etc.



TECHNICAL DATA:

Frequency range: 30... 20 000 cps

Discrimination between 0° and 180° sound incidence (control unit in cardioid position) -15 db

Output level: -33 db re 1 milliwatt for a sound field of 10 dynes/sq. cm

Sensitivity (for 200 ohms): 1 millivolt per microbar $\pm 1,5$ db

Output impedance: 50/200 ohms

Tube: 1 \times 6072

Power: 110/125/145/220/245 vac 50... 60 cps

Each microphone is delivered with its actual frequency response curves for 0° omni-directional, cardioid and bi-directional, and 180° cardioid sound incidence.

DIMENSIONS:

Microphone C 12: length $10 \frac{3}{16}$ " (shell only)
 $15 \frac{3}{16}$ " (connector includ.)
diameter $1 \frac{5}{8}$ "
weight: 1 lb 7 ozs net
2 lbs including case

Power Supply N 12: length 10"
height $6 \frac{1}{3}$ "
width $4 \frac{1}{3}$ "
weight 9 lbs

Remote Control Unit U 12: length $4 \frac{3}{8}$ "
width $4 \frac{3}{8}$ "
height $3 \frac{1}{2}$ "
weight 1 lb 7 ozs

Microphone Cable K 12: length 65 ft
weight 4 lbs 14 ozs
including connectors

Remote Control Cable R 12: length 32 ft
weight 2 lbs 5 ozs
including connectors

Modulation Cable NF 12: length 16 ft
weight 14 ozs
including connectors

MORE AKG-PRODUCTS:

- C 24 Stereo Condenser Microphone for Broadcast, Recording and Motion Picture Studios with Remote Control of Directional Characteristics for Both Channels. Equivalent to two C 12.
- C 28/29/30 A Very Small Condenser Microphone Specially Designed for Motion Picture and TV Work. With Fish-Pole-like Extension Tubes, Cardioid and Omnidirectional characteristics.
Utilizes C 12 Power Supply Unit N 12.
- ST 200 Floor Stand of Novel Design. Filters out Floor-borne Vibrations. Folds for Easy Transport.

AKG products include other highest quality sound apparatus for professional and semi-professional applications.

AKG-products are imported and serviced by:

AKUSTISCHE U. KINO-GERÄTE G M B H

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