

“Shotgun” Condenser Microphones

DESCRIPTION

The MC 736 PV “Short Shotgun” and the MC 737 PV “Long Shotgun” condenser microphones utilize the pressure gradient, line transducer technique. The microphone’s sensitivity, highly directional polar patterns and superb off-axis frequency response will provide excellent performance in the most demanding studio or field conditions.

Each shotgun microphone includes an “on-board” user adjustable 6 dB attenuator and low frequency roll-off switch to prevent overload and distortion or unwanted bass disturbances. The wide range frequency response of both models will provide startling accuracy and openness, while off-axis response has been fine tuned to insure superb intelligibility.

The MC 736 PV and MC 737 PV microphones are phantom powerable by a DC supply delivering between 12 - 48 volts.

Each model is constructed of lightweight, durable aluminum and is available with non-glare, black anodized finish.

FEATURES

- **Consistent polar response throughout the frequency spectrum rejects unwanted off-axis sound**
- **Exceptionally wide frequency response**
- **Superb off-axis response**
- **Built-in 6 dB attenuation switch**
- **Low frequency roll-off switch**
- **Lightweight durable aluminum construction**
- **Phantom powerable from 12 - 48 volts DC**
- **Non-glare black anodized finish**
- **Very high signal-to-noise ratio**
- **Extremely low self-noise**
- **High sound pressure level capability**

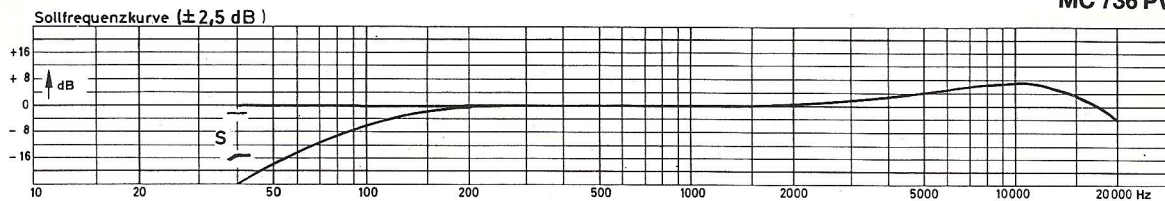
APPLICATIONS

The MC 736 PV and MC 737 PV shotgun condenser microphones are engineered to meet the rigorous demands of in-studio or remote broadcast electronic news gathering (ENG) and electronic field production (EFP) applications.

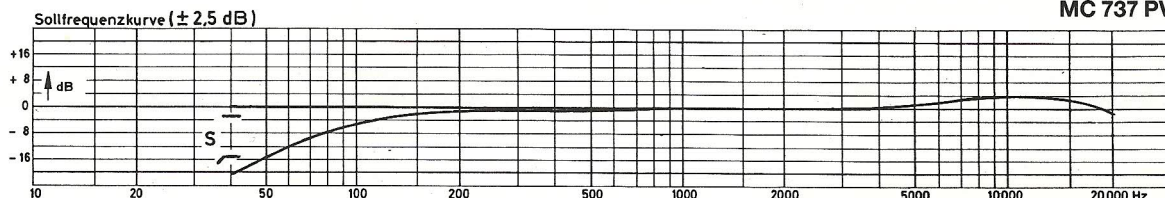
Both models will deliver superb sonic performances in film, video, theater, sound reinforcement, multitrack music and special effects recording assignments either in-studio or on-location.

FREQUENCY RESPONSE CURVE (± 2.5 dB)

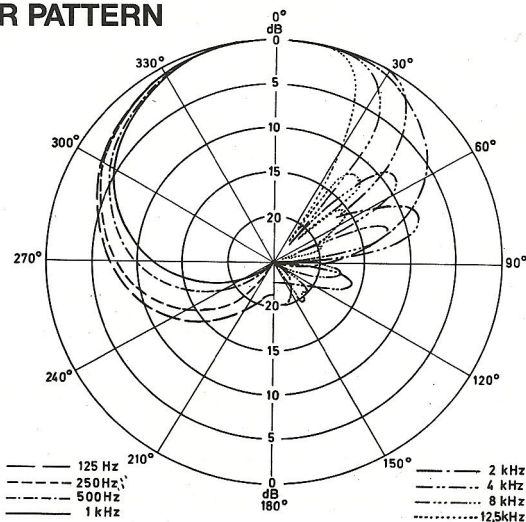
MC 736 PV



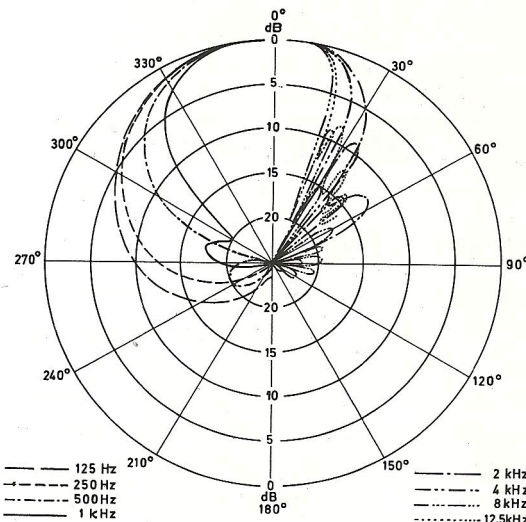
MC 737 PV



POLAR PATTERN



This polar pattern and frequency response curve correspond to typical machine run specifications from a standard MC 736.



This polar pattern and frequency response curve correspond to typical machine run specifications from a standard MC 737.

SPECIFICATIONS

Model:

Transducer type:

Operating principle:

Supply voltage:

Current consumption:

Frequency response:

Polar pattern:

Sensitivity:

Source impedance:

Minimum load impedance:

Max. SPL for 0.5% THD at 1 kHz:

with preattenuation:

Noise voltage (DIN 45 405):

S/N ratio according to DIN 45 590
(ref. level 1 Pa):

Equivalent noise level, A-weighted:

Dimensions

Length:

Diameter:

Weight:

MC 736 N (C) PV

Condenser

Pressure gradient /
Line transducer technique

12–48V DC

6.5 mA

40–20,000 Hz

Cardioid / Lobe

25 mV/Pa \triangle –33 dBV

150 Ω

$\geq 1000 \Omega$

122 dB

128 dB

4.5 μ V_p

approx. 74 dB

approx. 13 dB

294 mm

21 mm

195 g

MC 737 N (C) PV

Condenser

Pressure gradient /
Line transducer technique

12–48V DC

6.5 mA

40–20,000 Hz

Cardioid / Lobe

25 mV/Pa \triangle –33 dBV

150 Ω

$\geq 1000 \Omega$

122 dB

128 dB

4.5 μ V_p

approx. 74 dB

approx. 13 dB

564 mm

21 mm

250 g

OPTIONAL MODELS

MC 736 P48 same as the MC 736 PV except the construction is of brass not aluminum, it is powerable by a 48 volt DC power supply only and the attenuation switch is 12 dB instead of 6 dB.

MC 737 P48 same as the MC 737 PV except the construction is of brass instead of aluminum, it is powerable by a 48 volt DC power supply only and the attenuation switch is 12 dB instead of 6 dB.

FURNISHED ACCESSORIES

Rugged, black leatherette protective carrying case.

OPTIONAL ACCESSORIES

WS 716



Polyurethane foam windscreen for the MC 736 PV and MC 736 P48

WS 717



Polyurethane foam windscreen for the MC 737 PV and MC 737 P48

EA 736



Rubber isolation suspension for the MC 736 PV and MC 736 P48 supplied with the MZP 767 pistol grip

EA 737



Rubber isolation suspension for the MC 737 PV and MC 737 P48 supplied with the MZP 767 pistol grip

MZG 1



Stand/broom adapter for mounting the EA 736 and EA 737 to a fishpole boom or a microphone stand

MZP 767



Pistol grip handle

KWS 726



Fiberglass windscreen for protection against high wind noise for the MC 736 PV and MC 736 P48

KWS 727



Fiberglass windscreen for protection against high wind noise for the MC 737 PV and MC 737 P48



MC 737, EA 737, MZP 767

ZWS 726

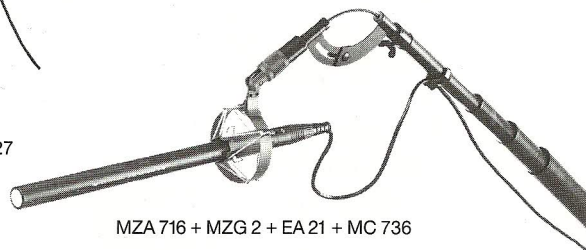
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High wind cover for the KWS 726

ZWS 727

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High wind cover for the KWS 727



MZA 716 + MZG 2 + EA 21 + MC 736

MZA 716

Fiberglass telescoping fishpole boom

MZA 717

Aluminum fishpole boom

MZG 2

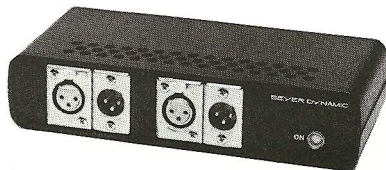
Metal swivel mount which permits 360 degree microphone movement when mounted to a fishpole boom

MSB 48 N(C).1



Battery power supply for condenser microphones requiring 48 volt phantom power. Requires 5-9 volt batteries. Built-in balancing transformer for unbalanced inputs. Includes battery condition LED and belt-clip

MSG 248



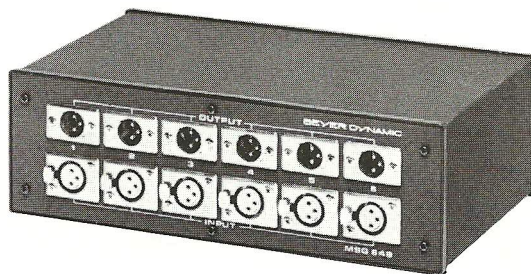
MSG 248 N(C)

AC power supply providing 48 volt phantom power for up to 2 condenser microphones, must be used with balanced inputs

MSG 248 N(C).1

Same as the MSG 248 N(C) with built-in balancing transformer for unbalanced inputs

MSG 648



MSG 648 N(C)

AC power supply providing 48 volt phantom power for up to 6 condenser microphones. Must be used with balanced inputs

MSG 648 N(C).1

Same as the MSG 648 N(C) with built-in balancing transformer for unbalanced inputs

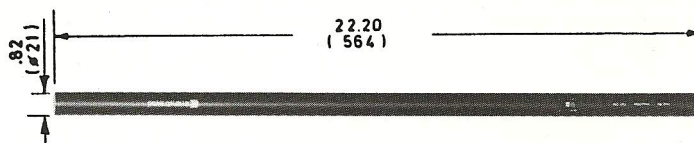
DIMENSIONS

in inches (millimeters in brackets)

MC 736



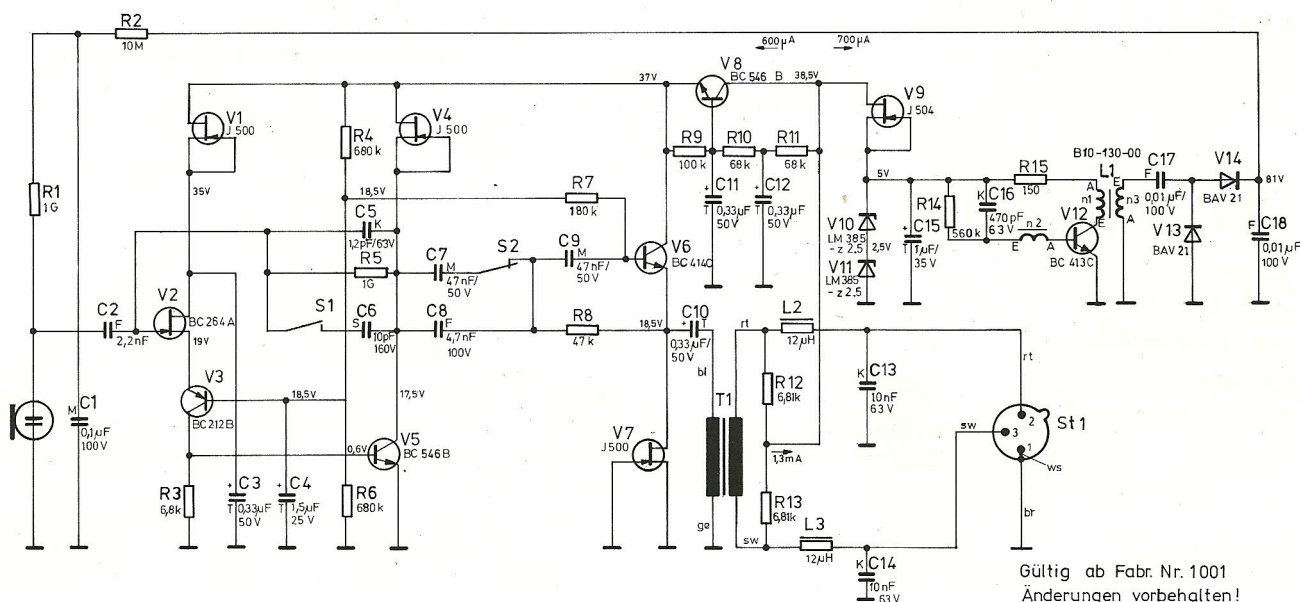
MC 737



ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The microphone shall be a condenser type with a frequency range of 40 – 20,000 Hz. The unit shall have a true cardioid/ lobe respectively lobe polar pattern. The microphone output shall be –33 dBV when 0 dBV \triangleq 1 V/Pa respectively 25 mV/Pa. The microphone shall have a signal-to-noise ratio of 74 dB. Noise voltage shall be 4.5 μ V_p and the equivalent 'A'-weighted noise level shall be approx. 13 dB. Electrical impedance shall be 150 ohms. The case shall be made of aluminum with a matte black finish. The dimensions shall be either 11.5 in (294 mm) or 22.1 in (564 mm) overall length and 0.8 in (21 mm) in diameter. The microphone shall be available with a Neutrik 3 pin male connector or equivalent. The unit shall be working on any phantom power source of 12 - 48 volts. The beyerdynamic MC 736 PV resp. MC 737 PV is specified.

WIRING DIAGRAM



Gültig ab Fabr. Nr. 1001
Änderungen vorbehalten!

- Schichtwiderstand
- Keramik - Kondensator
- Tantal - Kondensator
- MKH- und MKT - Kondensator
- Styroflex - Kondensator
- FKC - und FKS Kondensator

Subject to change without notice

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