"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)**

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

**POLAR PATTERN**

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

**SPECIFICATIONS**

**Model:**
- **MC 736 N (C) PV**
  - Transducer type: Condenser
  - Operating principle: Pressure gradient / Line transducer technique
  - Supply voltage: 12 – 48 V DC
  - Current consumption: 6.5 mA
  - Frequency response: 40 – 20,000 Hz
  - Polar pattern: Cardioid / Lobe
  - Sensitivity: 25 mV/Pa ∆ –33 dBV
  - Source impedance: 150 Ω
  - Minimum load impedance: ≧ 1000 Ω
  - Max. SPL for 0.5% THD at 1 kHz: 122 dB
  - with preattenuation: 128 dB
  - Noise voltage (DIN 45 405):
    - 122 dB: 4.5 µV_p
    - 128 dB: approx. 74 dB
    - S/N ratio according to DIN 45 590 (ref. level 1 Pa):
      - approx. 74 dB
      - Equivalent noise level, A-weighted:
        - approx. 13 dB

**Dimensions**
- MC 736 N (C) PV: Length: 294 mm, Diameter: 21 mm, Weight: 195 g
- MC 737 N (C) PV: Length: 564 mm, Diameter: 21 mm, Weight: 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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS 716</td>
<td>Polyurethane foam windscreen for the MC 736 PV and MC 736 P48</td>
</tr>
<tr>
<td>WS 717</td>
<td>Polyurethane foam windscreen for the MC 737 PV and MC 737 P48</td>
</tr>
<tr>
<td>EA 736</td>
<td>Rubber isolation suspension for the MC 738 PV and MC 736 P48 supplied with the MZP 767 pistol grip</td>
</tr>
<tr>
<td>EA 737</td>
<td>Rubber isolation suspension for the MC 737 PV and MC 737 P48 supplied with the MZP 767 pistol grip</td>
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<tr>
<td>MZG 1</td>
<td>Stand/boom adapter for mounting the EA 736 and EA 737 to a fishpole boom or a microphone stand</td>
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<tr>
<td>MZP 767</td>
<td>Pistol grip handle</td>
</tr>
<tr>
<td>KWS 726</td>
<td>Fiberglass windscreen for protection against high wind noise for the MC 736 PV and MC 736 P48</td>
</tr>
<tr>
<td>KWS 727</td>
<td>Fiberglass windscreen for protection against high wind noise for the MC 737 PV and MC 737 P48</td>
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<tr>
<td>ZWS 726</td>
<td>High wind cover for the KWS 726</td>
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<tr>
<td>ZWS 727</td>
<td>High wind cover for the KWS 727</td>
</tr>
<tr>
<td>MZA 716</td>
<td>Fiberglass telescoping fishpole boom</td>
</tr>
<tr>
<td>MZA 717</td>
<td>Aluminum fishpole boom</td>
</tr>
<tr>
<td>MSB 48 N(C).1</td>
<td>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</td>
</tr>
<tr>
<td>MSG 248</td>
<td>MSG 248 N(C) AC power supply providing 48 volt phantom power for up to 2 condenser microphones, must be used with balanced inputs</td>
</tr>
<tr>
<td>MSG 248 N(C).1</td>
<td>Same as the MSG 248 N(C) with built-in balancing transformer for unbalanced inputs</td>
</tr>
<tr>
<td>MSG 648</td>
<td>MSG 648 N(C) AC power supply providing 48 volt phantom power for up to 6 condenser microphones. Must be used with balanced inputs</td>
</tr>
<tr>
<td>MSG 648 N(C).1</td>
<td>Same as the MSG 648 N(C) with built-in balancing transformer for unbalanced inputs</td>
</tr>
</tbody>
</table>
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 ∆ 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 µVp 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

Subject to change without notice