Avoiding Pickup of Unwanted Sound Sources

Place the microphone so that unwanted sound sources, such as monitors and loudspeakers, are directly behind it. To minimize feedback and ensure optimum rejection of unwanted sound, always test microphone placement before a performance.

Recommended Loudspeaker Locations for Cardioid Microphones

Applications and Placement

The following table lists the most common applications and placement techniques. Keep in mind that microphone technique is largely a matter of personal taste; there is no one “correct” microphone position.

<table>
<thead>
<tr>
<th>Application</th>
<th>Suggested Microphone Placement</th>
<th>Tone Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guitar &amp; Bass Amplifiers</td>
<td>2.5 cm (1 in.) from speaker, on-axis with center of speaker cone.</td>
<td>Sharp attack; emphasized bass.</td>
</tr>
<tr>
<td></td>
<td>2.5 cm (1 in.) from speaker, at edge of speaker cone.</td>
<td>Sharp attack; higher frequency sound.</td>
</tr>
<tr>
<td></td>
<td>60 to 90 cm (2 to 3 ft.) back from speaker, on-axis with speaker cone.</td>
<td>Softer attack; reduced bass.</td>
</tr>
<tr>
<td>Snare Drum</td>
<td>2.5 to 7.5 cm (1 to 3 in.) above rim of top head of drum. Aim mic at drum head.</td>
<td>Most &quot;snap&quot; from drumstick.</td>
</tr>
</tbody>
</table>

Before each use, make sure the grille is tightly secured on the microphone, as vibration and accidental hits with drumsticks may loosen it, resulting in signal loss.
Optional Accessories and Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microphone Clip for SM58, SM57, SM87A, Beta 87A, Beta 87C and all microphones with 3/4-inch and larger handles</td>
<td>A25D</td>
</tr>
<tr>
<td>5/8” to 3/8” Thread Adapter</td>
<td>31A1856</td>
</tr>
<tr>
<td>7.6 m (25 ft.) Cable (XLR-XLR)</td>
<td>C25J</td>
</tr>
<tr>
<td>Grille</td>
<td>RPMP57G</td>
</tr>
<tr>
<td>PGA57 Replacement Grille</td>
<td>RPM152</td>
</tr>
</tbody>
</table>

Certifications

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking. The CE Declaration of Conformity can be obtained from: www.shure.com/europe/compliance

Authorized European representative:
Shure Europe GmbH
Headquarters Europe, Middle East & Africa
Department: EMEA Approval
Jakob-Dieffenbacher-Str. 12
75031 Eppingen, Germany
Phone: 49-7262-92 49 0
Fax: 49-7262-92 49 11 4
Email: EMEAsupport@shure.de

Specifications

Type
- Dynamic (moving coil)

Frequency Response
- 50 to 15,000 Hz

Polar Pattern
- Cardioid

Output Impedance
- 150 Ω

Sensitivity
- at 1 kHz, open circuit voltage
  - -56.5 dBV/Pa¹ (1.5 mV)

Polarity
- Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3

Weight
- 280 g (9.88oz.)

Connector
- Three-pin professional audio (XLR), male

Environmental Conditions

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>-20° to 165°F (-29° to 74°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Humidity</td>
<td>0 to 95%</td>
</tr>
</tbody>
</table>

1 Pa=94 dB SPL

Typical Frequency Response

Typical Polar Pattern

Overall Dimensions