Bedienungsanleitung . . . . . . . . . . . S. 2
Bitte vor Inbetriebnahme des Gerätes lesen!

User Instructions . . . . . . . . . . . . . . . p. 8
Please read the manual before using the equipment!

Mode d’emploi . . . . . . . . . . . . . . . . p. 14
Veuillez lire cette notice avant d’utiliser le système!

Istruzioni per l’uso . . . . . . . . . . . . . p. 20
Prima di utilizzare l’apparecchio, leggere il manuale

Modo de empleo . . . . . . . . . . . . . . . p. 26
¡Sirvase leer el manual antes de utilizar el equipo!

Instruções de uso . . . . . . . . . . . . . . p. 32
Favor leia este manual antes de usar o equipamento!
1 Safety and Environment

1.1 Safety
Please make sure that the piece of equipment your microphone will be connected to fulfills the safety regulations in force in your country and is fitted with a ground lead.

1.2 Environment
1. Be sure to dispose of used batteries as required by local waste disposal rules. Never throw batteries into a fire (risk of explosion) or garbage bin.
2. When scrapping the equipment, remove the batteries, separate the case, circuit boards, and cables, and dispose of all components in accordance with local waste disposal rules.
3. The packaging of the equipment is recyclable. To dispose of the packaging, make sure to use a collection/recycling system provided for that purpose and observe local legislation relating to waste disposal and recycling.

2 Description

2.1 Introduction
Thank you for purchasing an AKG product. This Manual contains important instructions for setting up and operating your equipment. Please take a few minutes to read the instructions below carefully before operating the equipment. Please keep the Manual for future reference. Have fun and impress your audience!

2.2 C 477 WR
The C 477 WR is a highly professional head-worn condenser microphone specifically designed for almost "invisible" use by performers on stage and radio or TV moderators. In line with this concept, the microphone is extremely light.
The dual-diaphragm capsule of the C 477 WR features an additional gold-sputtered protective diaphragm that prevents moisture and perspiration from penetrating into the transducer. This reduces the risk of failure caused by humidity to a practical minimum.
The microphone arm is attached to the left-hand side of the behind-the-neck headband. A right-hand version is also available for TV moderator duos or similar applications.
The C 477 WR is available in six versions:
1. C 477 WR L: with 3-pin mini XLR connector for use with AKG body-pack transmitters or the optional MPA III phantom power adapter from AKG for connecting to mixers or amplifiers. Black, microphone on the left.
2. C 477 WR L/P: as C 477 WR L except for flesh-tone side pieces and microphone.
4. C 477 SH/P: with Lemo connector.
2 Description

2.3 Moisture Shield

A special moisture shield on the microphone capsule makes it difficult for moisture and makeup to penetrate into the microphone. This barrier prevents the microphone sound entries from being clogged by perspiration or makeup which would make the sound dull and reduce the sensitivity of the microphone. Therefore, never remove the moisture shield from the microphone!

Fig. 1: Moisture shield.

2.4 Standard Accessories

W 77 Windscreen
Moisture shield

W 77 M wire-mesh windscreen, black
W 77 M wire-mesh windscreen, flesh-tone
MPA III phantom power adapter

2.5 Optional Accessories

3 Interfacing

The C 477 WR is a prepolarized condenser microphone and requires a supply voltage of 1.5 VDC to 12 VDC.

You can connect the C 477 WR L directly to any bodypack transmitter from AKG. Alternatively, you can use the MPA III phantom power adapter from AKG and a microphone cable to connect the microphone to a mixer or amplifier input.

3.1 C 477 WR L

3.1.1 Connecting to a Bodypack Transmitter

The C 477 WR L has been designed specifically for use with AKG bodypack transmitters. Using the microphone with a bodypack from a different manufacturer may cause malfunction or damage to the microphone which may not be covered by the warranty.

The optional MPA III phantom power adapter lets you connect the microphone to any phantom power source or XLR inputs with 9 to 52 V phantom power.
We recommend the optional N 62 E or N 66 E AC power supply or B 18 battery supply (also optional) from AKG for powering the MPA III.

3.1.2 Hardwire Connection

Important!

1. Plug the mini XLR connector on the cable of your microphone all the way into the mini XLR connector on the MPA III connecting cable. The connector will lock automatically.
2. Connect the MPA III to the desired input with phantom power.
3 Interfacing

If the selected input provides no phantom power:

1. Connect the MPA III to one of the phantom power supplies listed above.
2. Connect the phantom power supply to the desired input.

Important! Using any power supply other than those recommended by AKG may damage your microphone and will void the warranty.

3.2 C 477 WR oc

Fig. 2: C 477 oc circuit diagram.

The C 477 WR oc uses a connecting cable with stripped and tinned leads. You can use this microphone with bodypack transmitters or other devices that provide a supply voltage between 1.5 VDC and 12 VDC.

For details on the type of connector you will need, refer to the instruction manual of the device to which you want to connect your microphone.

4 Operating Notes

Important! The clear-plastic moisture shield on the microphone prevents perspiration or makeup from clogging the sound entry ports and thus changing the sound and reducing the microphone's sensitivity. Therefore, never try to remove the moisture shield from the microphone!

Important! The headband and microphone arm are made of thin-walled tubing. Bend these parts with extreme caution. If you bend the tubing too sharply it may break, which will void the warranty.
4 Operating Notes

4.1 Putting the Microphone On

Refer to fig. 3.

1. Put the microphone on as shown in fig. 3.
2. Bend the microphone arm so that the microphone will sit in front of the corner of the user's mouth, as close as possible to the mouth.
3. In order to adjust the headband to the user's head, you can bend the metal parts to shape (white arrows) and slide the side piece WITHOUT the microphone arm in and out within the plastic center piece (black arrows). (The side piece carrying the microphone arm is not movable.)

Important!

Never try to bend the plastic center piece! The plastic material would return to its original shape and break if overstressed, voiding the warranty.

Refer to fig. 4.

4.2 Windscreen

Note:

If (for instance, in outdoor use) excessive wind or pop noise becomes audible, attach the supplied windscreen to the microphone.

The optional W 77 M wire-mesh windscreen in black or flesh-tone is even less visible.

5 Cleaning

5.1 Surfaces

To clean metal surfaces, use industrial spirits or alcohol.
To clean plastic surfaces, use a soft cloth moistened with water. Never use benzine or solvents!

If perspiration or makeup should penetrate into the microphone capsule:

1. Unscrew the microphone case CCW from the microphone arm.
2. Move the case rapidly back and forth in distilled water.

The case is connected to ground. If you use tap water to clean the case, furring may interrupt the ground connection and cause hum. Therefore, use distilled water only.

Important!

3. Allow the case to dry completely.
4. Screw the case back on the microphone arm CW.
## 6 Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. No sound:</td>
<td>1. No supply voltage.</td>
<td>1. Check phantom power supply.</td>
</tr>
<tr>
<td></td>
<td>2. Microphone arm contacts soiled, shorted by moisture, or corroded.</td>
<td>2. Contact an AKG service center.</td>
</tr>
<tr>
<td>2. Loud pop, wind, and/or breath noise:</td>
<td>1. Microphone sits too close to mouth or nose.</td>
<td>1. Align microphone sound entries with corner of mouth and move micro-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>phone just far enough away from mouth and nose to stop breath noise.</td>
</tr>
<tr>
<td></td>
<td>2. No windscreen attached.</td>
<td>2. Attach windscreen.</td>
</tr>
<tr>
<td></td>
<td>2. Sound entries clogged.</td>
<td>2. Clean microphone case.</td>
</tr>
<tr>
<td>4. Reduced sensitivity and gain-before-feedback:</td>
<td>1. Microphone sits too far away from corner of mouth.</td>
<td>1. Place microphone closer to corner of mouth.</td>
</tr>
<tr>
<td></td>
<td>2. Sound entries clogged.</td>
<td>2. Clean microphone case.</td>
</tr>
</tbody>
</table>

### 5 Cleaning

#### 5.3 Windscreen

Use a mild detergent solution to wash the windscreen. The windscreen will be ready for use as soon as it has dried completely.
### 7 Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type:</strong></td>
<td>Pre-polarized dual-diaphragm condenser microphone</td>
</tr>
<tr>
<td><strong>Polar pattern:</strong></td>
<td>Omnidirectional</td>
</tr>
<tr>
<td><strong>Frequency range:</strong></td>
<td>20 Hz to 20,000 Hz</td>
</tr>
<tr>
<td><strong>Sensitivity at 1000 Hz:</strong></td>
<td>8 mV/Pa</td>
</tr>
<tr>
<td><strong>Max. SPL:</strong></td>
<td>133 dB</td>
</tr>
<tr>
<td><strong>Equivalent noise level:</strong></td>
<td>&lt;26 dB-A</td>
</tr>
<tr>
<td><strong>Signal-to-noise ratio (A-weighted):</strong></td>
<td>&gt;68 dB-A</td>
</tr>
<tr>
<td><strong>Electrical Impedance:</strong></td>
<td>3.5 kΩ</td>
</tr>
<tr>
<td><strong>Recommended load impedance:</strong></td>
<td>10 kΩ</td>
</tr>
<tr>
<td><strong>Supply voltage:</strong></td>
<td>1.5 VDC to 12 VDC</td>
</tr>
<tr>
<td><strong>Current consumption:</strong></td>
<td>&lt;0.6 mA</td>
</tr>
<tr>
<td><strong>Connector:</strong></td>
<td>L versions: 3-pin mini XLR</td>
</tr>
<tr>
<td></td>
<td>oc versions: stripped and tinned leads</td>
</tr>
<tr>
<td></td>
<td>SH/P version: Lemo connector</td>
</tr>
<tr>
<td><strong>Cable length:</strong></td>
<td>1.5 m (5 ft.)</td>
</tr>
<tr>
<td><strong>Finish:</strong></td>
<td>Matte black</td>
</tr>
<tr>
<td></td>
<td>P versions: metal headband: matte flesh-tone</td>
</tr>
<tr>
<td></td>
<td>plastic center piece: matte black</td>
</tr>
<tr>
<td></td>
<td>cable: matte black</td>
</tr>
<tr>
<td><strong>Size (LxWxH):</strong></td>
<td>Approx. 180 x 130 mm x 85 mm (7.1 x 5.2 x 3.3 in.)</td>
</tr>
<tr>
<td><strong>Net/shipping weight:</strong></td>
<td>Approx. 15 g / 325 g (0.53 oz. / 11.5 oz.)</td>
</tr>
</tbody>
</table>

This product conforms to EN 540082-1 provided it is connected to audio/power supply equipment with a CE mark.

**Frequency Response**

![Frequency Response Graph](image)

**Polar Diagram**

![Polar Diagram](image)