

WMS40 MP40 micro pen

| Bedienungshinweise |
|--|
| User Instructions p. 10 |
| Please read the manual before using the equipment! |
| Mode d'emploi |
| Istruzioni per l'uso |
| Modo de empleo |
| Instruções de uso |

FCC Statement

AF BUTAEX ZUIJULZUUL IS.S.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Parts 74, 15, and 90 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions. may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded cables and I/O cords must be used for this equipment to comply with the relevant FCC regulations. Changes or modifications not expressly approved in writing by AKG Acoustics may void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



1. Do not expose the equipment to direct sunlight, excessive dust, moisture, rain, mechanical vibrations, or shock.

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.



2 Description 2.1 Introduction

Dear Customer:

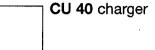
Thank you for purchasing an AKG product. This Manual contains important instructions for setting up and operating your equipment. Please take a few minutes to read the instructions below carefully before operating the equipment. Please keep the Manual for future reference. Have fun and impress your audience!

2.2 Unpacking

| 1 MP 40 micropen | 1 neck- lace cord | 1 replace- ment clip (black) | 1 AAA size battery |
|---------------------|----------------------|------------------------------------|--------------------------|

Check that the package contains all the parts listed above. If anything is missing, please contact your AKG dealer.

2.3 Optional Accessories



2.4 Description

The MP 40 micropen is a miniature transmitter with a detachable C 407 omnidirectional condenser microphone. The transmitter has been specifically designed for speech reinforcement use in conjunction with WMS 40 Series receivers from AKG.

The MP 40 micropen operates on a single fixed, quartz stabilized carrier frequency in the 710 MHz to 865 MHz UHF band and uses a dipole antenna integrated in the transmitter body.

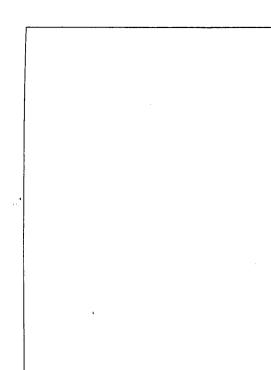
The microphone is nested in a compartment at the upper end of the transmitter. The microphone is fitted with a fixing clamp and connected to the transmitter by a cable approx. 8 inches (20 cm) long. You can detach the microphone from the transmitter and clamp the microphone to the talker's clothes.

The pen-style clip on the rear of the transmitter allows you to secure the transmitter, e.g., in a shirt pocket. The color of the clip indicates the carrier frequency of your transmitter. You can replace the color code clip with the supplied black replacement clip.

The supplied necklace cord allows you to wear the transmitter around your neck.

2.5 Controls (Refer to fig. 1)

1 ON/MUTE/OFF: This slide switch provides three positions: **ON:** Power to the transmitter is on.



M: The signal delivered by the microphone is muted while power and the RF carrier frequency remain on. This prevents the receiver from responding to interference from other transmitters.

OFF: Power to the transmitter is off.

2 Status LED: Indicates battery status. LED flashes momentarily upon switching ON and extinguishes: battery is OK.

LED lights constantly: battery will be dead in about 60 minutes.

- **3 Input Gain:** This rotary pot sets the sensitivity of the transmitter's audio section.
- **4 Battery compartment** for one 1.5-V AAA size battery (supplied).
- **5** Charging contacts for charging a rechargeable battery inside the battery compartment using the optional CU 40 charger.
- 6 Clip for securing the transmitter

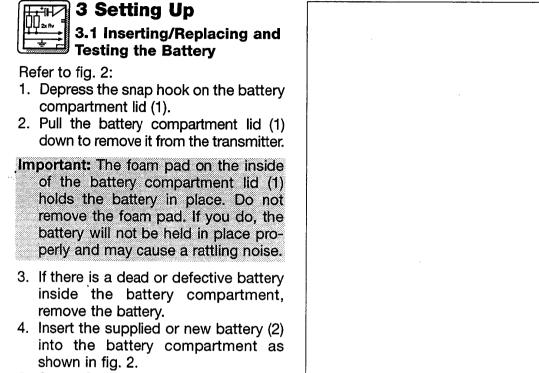
inside a shirt pocket or in an outside breast pocket of a jacket. The color of the clip indicates the carrier frequency of your transmitter:

| Frequence | cy | Color |
|-----------|-------------|-----------------|
| US54: | 710.400 MHz | reddish brown |
| US58: | 734.600 MHz | purple |
| KR3: | 745.650 MHz | mint green |
| KR4: | 750.900 MHz | dark gray |
| EU62: | 802.525 MHz | Bordeaux red |
| EU63: | 812.800 MHz | yellow |
| SP1: | 848.750 MHz | light blue |
| SP2: | 851.750 MHz | yellowish green |
| UK69A: | 854.900 MHz | violet |
| UK69B: | 858.200 MHz | green |
| ISM1: | 863.100 MHz | melon yellow |
| ISM2: | 864.375 MHz | gray |

7 Microphone

8 Cable compartment lid: The cable compartment beneath the lid holds the microphone cable (approx. 8 inches/20 cm long).

Fig. 1: MP 40 controls.



5. Set the ON/MUTE/OFF switch (3) to ON.

Fig. 2: Inserting the battery.

The status LED (4) will flash momentarily. If the battery is in good condition, the status LED (4) will extinguish. If the status LED (4) lights constantly the battery will be dead within about 60 minutes. Replace the battery with

a new one as soon as possible. If the status LED (4) fails to flash momentarily the battery is dead. Insert a new battery.

6. Slide the battery compartment lid (1) onto the transmitter against the direction of the arrow to the point that the lid (1) will click shut.

3.2 Using Rechargeable Batteries

Refer to fig. 3:

Instead of dry batteries, you can also use a 1.5-V rechargeable battery to power the transmitter. We recommend SANYO HR-4U (650 mAh) or Panasonic Rechargeable PRO+ (550 mAh) NiMH rechargeable batteries.

Fig. 3: Using the CU 40 optional charger.

To charge the battery, insert the trans-

mitter (1) into the optional CU 40 charger

For details, refer to the CU 40 charger

(2) as shown in fig. 3.



4 Operating Notes

4.1 Attaching the Transmitter

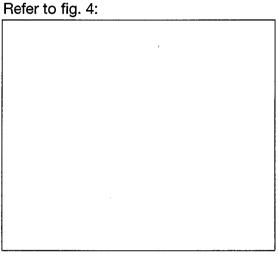


Fig. 4: Attaching the transmitter.

Slide the transmitter (1) into a shirt pocket or an outside breast pocket of

the talker's jacket, making sure the clip (2) will be on the outside of the pocket and the microphone (3) will point upward.

If no suitable pocket is available, slip the supplied necklace cord (4) under the clip (2) and place the necklace cord (4) around the talker's neck.

4.2 Setting Levels (Refer to fig. 1)

- 1. Check that the receiver is marked with the same color code as the transmitter.
- 2. Use a small screwdriver to turn the input gain control (3) on the transmitter to a position halfway between the left and right stops.
- 3. Set the ON/MUTE/OFF switch (1) to ON to switch power to the transmitter on.
- 4. Switch power to your sound system or amplifier on.
- 5. Speak a few sentences in your normal voice.

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manual.

 If your voice sounds distorted on the loudspeakers turn the input gain control (3) down CCW to the point that you will hear no more distortion.
 If your voice sounds too quiet on the loudspeakers, turn the input gain control (3) up CW. If the loudspeakers start howling due to acoustic feedback, immediately turn the input gain control (3) back down to the point that the howling will stop.

4.3 Detaching the Microphone

Refer to fig. 5):

If feedback occurs even at low volume levels, you can detach the microphone from the transmitter and position it closer to the talker's mouth to reduce the risk of acoustic feedback.

- 1. Unlock and remove the cable compartment lid (1).
- 2. Place your fingernail against the

Fig. 5: Detaching the microphone.

microphone body and pull the microphone (3) out of the microphone compartment.

- 3. Pull the microphone (3) away from the transmitter.
- 4. Replace the cable compartment lid (1) on the cable compartment and press the lid (1) down to make it snap shut.
- 5. Put the transmitter in the shirt pocket or outside breast pocket or hang it around the talker's neck with the necklace cord.
- 6. Clamp the microphone (3) on the selvage or the collar as close as possible to the talker's mouth.
- 7. Turn the microphone (3) to aim it at the talker's mouth.

4.4 Mounting the Microphone on the Transmitter

Refer to fig. 6:

1. Unlock and remove the cable compartment lid (1).

2. Use the cable compartment lid (1) to 4.6 Replacing the Clip (Fig. 7) pull the microphone cable (2) down to the point that the microphone (3) will rest against the microphone compartment (4). 3. Set the microphone clamp (5) parallel to the microphone (3). 4. Press the microphone (3) into the microphone compartment (4) to the point that the microphone (3) snaps into place. 5. Stow the microphone cable (2) in the cable compartment and replace the cable compartment lid (1) on the cable compartment. Abb. 7: Halteclip austauschen 4.5 Handheld Use For interviews and similar applications, If the color code clip looks too garish you can hold the transmitter in your you can replace it with the supplied hand like a normal microphone. black clip. Talk into the microphone from approx. 1. Use a screwdriver to lever the clip (1) 1 foot (30 cm) away. away from the front end of the trans-Fig. 6: Mounting the microphone. mitter (2).

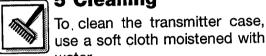
| Press down on the clip (1) and pull |
|--|
| the clip (1) away from the transmitter |
| (2) in the direction of the arrow. |

- 3. Nest the hook (3) on the black replacement clip into the matching opening (4) in the transmitter (2).
- 4. Press the bent end of the replacement clip against the transmitter (2) to make it snap into place.

4.7 Troubleshooting

For troubleshooting hints, refer to your receiver manual.

5 Cleaning



use a soft cloth moistened with water.

| 6 Specifications | |
|---------------------------------------|--------------------------------------|
| Carrier frequency range | 710 to 865 MHz |
| Modulation | FM |
| Audio bandwidth | 40 to 20,000 Hz |
| Frequency stability (-10°C to +50°C) | ±15 kHz |
| Rated deviation | 15 kHz (SP1, SP2: 13.5 kHz) |
| T.H.D. at 1 kHz | typ. 0.8% |
| Compander | integrated |
| Signal/noise ratio | typ. 103 dB(A) |
| RF output | typ. 5 mW |
| Current consumption | typ. 75 mA |
| Power requirement | single 1.5-V AAA size battery |
| Battery life | >10 hours (dry battery) |
| Battory mo | >5 hours (rechargeable battery) |
| Audio input level for rated deviation | 300 mV/1 kHz |
| Size (WxDxH) | 20 x 25 x 145 mm (0.8 x 1 x 5.7 in.) |
| Net weight | 36 g (1.3 oz.) |
| | , EN 301489-9 V1.1.7 (09-200) |

OND EN 300 422-2 V1.1.1. (07-2000)

Hiermit erklärt AKG Acoustics GmbH, dass das Produkt **WMS 40** die wesentlichen Anforderungen und sonstigen einschlägigen Bestimmungen der Richtlinie **1999/5/EG** erfüllt.

3

AKG Acoustics GmbH hereby declares that the product **WMS 40** complies with the essential requirements and other relevant provisions of Directive **1999/5/EC.**

AKG Acoustics GmbH déclare que le produit **WMS 40** satisfait aux exigences essentielles et autres dispositions y relatives de la Directive **1999/5/CE**.

Con la presente AKG Acoustics GmbH dichiara che il prodotto **WMS 40** è conforme alle richieste essenziali e alle altre disposizioni pertinenti della Direttiva **1999/5/CE**.

AKG Acoustics GmbH declara que el producto **WMS 40** cumple los requisitos esenciales y otras disposiciones aplicables de la Directiva **1999/5/CE**.

A AKG Acoustics GmbH declara que o produto WMS 40 cumpre os requisitos essenciais e as outras disposições relevantes da Directiva **1999/5/CE**.

AKG Acoustics GmbH verklaart hiermee dat het product **WMS 40** aan de essentiële eisen en overige desbetreffende bepalingen van de richtlijn **1999/5/EG** voldoet.

AKG Acoustics GmbH erklærer hermed at produktet **WMS 40** overholde de væsentliga krav samt andre relevante bestemmelser fra Direktiv **1999/5/EF.**

AKG Acoustics GmbH erklerer med dette, at produktet **WMS 40** oppfyller de vesentlige krav og andre relevante bestemmelser som fremgår av Direktiv **1999/5/EF**.

Härmed förklarar AKG Acoustics GmbH att produkten **WMS 40** uppfyller de väsentliga krav och andra relevanta bestämmelser som framgår av Direktiv **1999/5/EC.**

AKG Acoustics GmbH vakuuttaa, että tuotteemme WMS 40 täyttää tarvittavat 1999/5/EC direktiivin mukaiset vaatimukset.

"MP40"

Statt WMS40 -> "S040" BZJ. "GB40" BZJ.

DECLARATION OF CONFORMITY Decomment No. 17716 - 2000 True of Prinkat Brand Model No : HT4 A.1710 Wire Londwickyame 71 . 24 No. 3934-660 A 300422-1995, SEC (X065-1994 Cox Dete Uniliona. This declaration cathles the ac risio atchases of the product

EG-Kontomilitissekilirung 7600.CE1 87-08-2000 / Bu

ALTUELLE CE-ERKLÄRUNG

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Zur Verwendung in: For use in: Pour l'usage en: Per l'uso in: Para el uso en: Para o uso em:

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DIE LISTE UIRD

SB1, SB2, KR3, KR4 esgànt

BEZüGLICH

Voor het gebruik in: Må anvendes i: Får användas i: Må anvendes i: Käyttöön seuraavissa maissa:

| | | R&TTEd Countries | | | | | | | | | | | | | | | | | | |
|-------|---------|------------------|----|----|----|--------------|----|----|--------------|--------------|----|----|--------------|----|---|----|----|----|--------------|----|
| Set | MHz | AT | BE | CH | DE | DK | ES | FR | LI | GB | GR | IE | IS | IT | LU | NO | NL | PT | SE | FI |
| US54 | 710.4 | 1 | 1 | 1 | 1 | - | - | 1 | 1 | - | - | 1 | \checkmark | 1 | ✓ | - | - | - | 1 | - |
| US58 | 734.6 | 1 | 1 | 1 | 1 | - | - | 1 | \checkmark | - | - | 1 | \checkmark | 1 | Image: A set of the set of the | - | - | - | 1 | - |
| EU62 | 802.525 | - | - | 1 | 1 | 1 | - | 1 | 1 | - | - | 1 | 1 | 1 | 1 | 1 | - | - | 1 | 1 |
| EU63 | 812.8 | - | - | 1 | 1 | \checkmark | 1 | ~ | \checkmark | - | - | 1 | \checkmark | 1 | 1 | 1 | - | - | 1 | 1 |
| UK69A | 854.9 | - | 1 | 1 | 1 | - | - | - | 1 | \checkmark | - | 1 | \checkmark | - | 1 | - | - | - | 1 | - |
| UK69B | 858.2 | - | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | 1 | - | 1 | - | - | - | 1 | - |
| ISM1 | 863.1 | 1 | 1 | 1 | 1 | \checkmark | - | ~ | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | \checkmark | 1 |
| ISM2 | 864.375 | 1 | 1 | 1 | 1 | < | - | ~ | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | 1 | 1 |
| SP1 | 848.750 | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| SP2 | 851.750 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| KR3 | 745.650 | | | | | | | | | | | | | | | | | | | |
| KR4 | 750.900 | | | | | | | | | | | | | | | | | | | |

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RE AUTORA