

01/20

WMS 40

Bedienungsanleitung
User Instructionsp. 8 Please read the manual before using the equipment!
Mode d'emploip. 14 Veuillez lire cette notice avant d'utiliser le système!
Istruzioni per l'usop. 20 Prima di utilizzare l'apparecchio, leggere il manuale
Modo de empleo p. 26 Sirvase leer el manual antes de utilizar el equipol
Instruções de uso p. 32



F	× 80	Comon
1.	Proc	stations
2.	Desc	rigidan
	2.1	Introduction
	2.2	Unpacking
	2.3	Optional Accessories
	2.4	SR 40 Receiver
	2.5	HT 40 Handheld Transmitter
	2.6	PT 40 Bodypack Transmitter
	2.7	Color Code Table
3,	Setti	ng Up
	3.1	Placing the Receiver
	3.2	Rack Mounting a Single Receiver
	3,3	Rack Mounting Two Receivers Side by Side
	3.4	connecting the Receiver to a Mixer
	3.5	Connecting the Receiver to an Amplifier
	3,6	Connecting the Receiver to Power
	3.7	Inserting Batteries in the Handheld/Bodypack Transmitter
		and Testing
	3.8	Setting Up the Handheid Transmitter
	3.9	Setting Up the Bodypack Transmitter
	3.10	Replacing the Handheld Transmitter Color Code Clip
	3.11	Before the Soundcheck
_	1C	
	MODELTO	phone Tectarique HT 40 Handheld Transmitter
	4.2	C 417 Line alice Microshape
	4.2	C 417 L Lavalier Microphone
	4.3	D 420 L, C 444 L Headset Microphones
5.	Class	ing
	5_1	Surfaces
		HRT 40 Internal Windscreen
6,	Troub	leshooting

WMS 40 manual / concept

MAG.PHIL. H. SCHERER

FCC Statement

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 reasonsble 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:

- Recrient 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.



- Spill no liquids on the equipment and do not drop any objects through 1.1. the ventilation slots in the equipment.
- Do not place the equipment near heat sources such as radiators, hea-1.2. ting ducts, or amplifiers, etc. and do not expose it to direct sunlight, excessive dust, moisture, rain, mechanical vibrations, or shock.
- Be sure to dispose of used batteries as required by local waste disposal rules. Never throw batteries into a fire (risk of explosion). 1.3. Dear Customer:



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!

Two differ	ent WMS 40 Systems are availa	ible:	2.2 Umpa	cking
	1 SR 40 Receiver	1 HT 40 Handheld Transpitter	2.2.1 Hand System:	iheld
	1 AC power adapter for 12 V DC	2 AA size 1.5 V dry batteries		
	1 screwdriver	1 SA 43 stand adapter, black color code clip		
	1 SR 40 Receiver	1 PT 40 Bodypack Transmitter	2.2.2 System:	Bodypack
	1 AC power adapter for 12 V DC	2 AA size 1.5 V dry batteries		
-	1 screwdriver			

Please check that the packaging contains all system components as listed above. If anything is missing, please contact your AKG dealer.

RMU 60 19" rack mounting kit for 2 SR 40 receivers CH 40 plastic carrying case for one complete WMS 40 system.

The SR 40 is a stationary non-diversity receiver for use with all WMS 40 transmitters. The SR 40 operates on one fixed, quartz stabilized frequency in the 710 MHz to 865 MHz UHF carrier frequency range and features a rack-mount case.

- 1 POWER: On/off pushbutton switch and indicator LED.
- 2 Antenna: Fixed-length UHF antenna permanently mounted on the front panel.
- 3 VOLUME: This rotary control adjusts the SR 40's output level from microphone to line level for matching to the input sensitivity of your mixer or amplifier.
- 4 RP. This LED lights to indicate that signal is being received. If no signal is received or the squelch is on, the RF LED goes out and the audio output is muted.
- 5 Color Code: The color indicates the carrier frequency of your receiver. Transmitters tuned to the same frequency are marked with identical colors.
- 6 Carrier Frequency Label: A label indicating the carrier frequency and approval marks of your receiver is affixed to the bottom panel of the receiver.

2.3. Optional Accessories

2.4 SR 40 Receiver

2.4.1 Front Panel Controls

Refer to fig. 1.

Refer to section 2.7 Color Code Table.

2.4.2 Rear Penal Controls Refer to fig. 2.

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2 Description

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- MIC OUT: Belanced 3-pin XLR audio output for connecting to, e.g., a microphone input on a mixing console.
- LINE CUT: Unbalanced audio output on a 1/4" mono jeck for connecting to, e.g., a guitar amplifier.
- relativer for adjusting the SQUELCH control on the receiver and the GAIN control on the bodypack transmitter
- Strain Relief for the feeder cable of the supplied AC adapter.
- 11 DC IN: Input connector for the supplied AC adapter.
- 12 SQUELCH: The squelch circuit switches the receiver off if the received signal is too weak, in order to suppress the related noise or the residual noise of the receiver while the transmitter is off. Set the SQUELCH control to minimum before first switching the receiver on. (For details, refer to section 3.11.)

2.5 HT 40 Handheld Transmitter

The HT 40 handheld transmitter operates on one fixed, quartz stabilized frequency in the 710 MHz to 865 MHz UHF carrier frequency range and uses an antenna integrated in the body.

The microphone element permanently mounted on the transmitter is acoustically identical to the D 880 vocal microphone from AKG. This microphone features a built-in wind and pop filter to reduce wind and breath noise and provides low handling noise sensitivity, high gain before feedback, and brilliant sound quality.

2.5.1 Controls

13 On/Off switch: This slide switch provides three positions indicated in the display window:

Refer to fig. 3.

ON: Power to the transmitter is on.

MUTE: The signal delivered by the microphone element 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.

14 Status LED: Indicates battery status.

LED flashes momentarily upon switching ON and extinguishes: batteries are OK.

Refer to section 2.7 Color Code Table.

- LED lights constantly; betteries will be dead in about 50 minutes. 15 Color Code: The color of this plastic clip indicates the carrier frequency of your transmitter. Receivers tuned to the same frequency are marked with the same color. You can remove the color code
- clip on the HT 40 and replace it with the supplied black clip.

 Battery Compartment Ltd: Refer to section 3.7.

 Carrier Frequency Label: The label above the battery compartment indicates the carrier frequency and approval marks of your transmitter.

2.5.2 Optional Accessory

W 880 foam windscreen

2.6 PT 40 Bodypack Transmitter

You can use the PT 40 bodypack transmitter with both dynamic microphones and condenser microphones operating on a supply voltage of approx. 3.8 V. You may also connect an electric guitar, electric bass, or remote keyboard.

The PT 40 operates on one fixed, quartz stabilized frequency in the 710 MHz to 865 MHz UHF carrier frequency range.



18 On/Off Switch: This slide switch provides three positions labeled as follows:

ON: Power to the transmitter is on.

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MUTE: The signal delivered by the microphone or instrument 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.

19 Shatus LED: Indicates battery status.

LED flashes momentarily upon switching ON and extinguishes: batteries are OK.

LED lights constantly: batteries will be dead in about 50 minutes.

20 Audio input: 3-pin mini XLR connector with both mic and line level pins that automatically match the connector pinout of the recommended AKG microphones or optional MKG/L guitar cable.

Anterna: Permanently connected, flexible antenna.

22 Bolt Clip for fixing the transmitter to your belt.

Battery Compartment List Refer to section 3.7.

MIC/LIME: This slide switch sets the audio input either to microphone level ("MIC" position) or line level ("LINE" position).

GAIN: This rotary pot matches the sensitivity of the transmitter's audio section to the level of the connected microphone or instrument.

Carrier Frequency Label: The label on the transmitter rear panel Indicates the carrier frequency, color code (receivers with the same carrier frequency are marked with the same color), and approval marks of your transmitter.

The PT 40 has been designed specifically for use with the following AKG microphones:

C 417 L

C 420 L C 444 L

The MKG/L guitar cable from AKG lets you connect an electric guitar, electric bass, or remote keyboard to the bodypack transmitter.

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Proquency	Pantone Color Code	Color
710.400 MHz	471C	reddish brown
734.600 MHz	239C	purpie
802.525 MHz	172C /	Bordeaux red
812.800 MHz	YellowC	yellow
854.900 MHz	2796C	violet
858,200 MHz	3 2 95C	green
863.100 MHz	/1235C	maion yellow
864.375 MHz	cool gray 2	gray

2.6.1 Too Panel Controls

Refer to fig. 4

2.6.2 Rear Panel Controls

Refer to fig. 5.

2.6.3 Microphones. Guitar Cable (optionail

(For MKG/L wiring, refer to fig. 12.)

2.6.4 Optional **Accessories**

2.7 Color Code Table



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Prior to setting up your WMS 40, check that the transmitter and receiver are tuned to the same frequency. The essiest way to do this is to compare the color codes on the transmitter and receiver.

3.1 Placing the Receiver

Reflections off metal parts, walls, callings, etc. or the shadow effects of musicians and other people may weaken or cancel the direct transmitter signal.

For best results, place the receiver as follows:

- 1. Place the receiver near the performance area (stage). Make sure, though, that the transmitter will never get any closer to the receiver than 10 ft (3 m). Optimum separation is 16 ft. (5 m).
- 2. Check that you can see the receiver from where you will be using the transmitter.
- 3. Place the receiver at least 5 ft. (1.5 m) away from any big metal abjects, walls, scallolding, cailings, etc.

You can either use the receiver free-standing or mount it in a 19" rack using the optional RMU 60 rack mounting kit.

9.2 Rack Mounting a Single Receiver

- Refer to fig. 6. Refer to figs. 7a and 7b.
- Refer to fig. 7c.
- Refer to fig. 7d.
- 1. Unscrew the two screws on the bottom of each side panel support (27).
- 2. Remove the two side panel supports (27).
- 3. Place a clamping slide (28) on each rack ear (29), checking that the pegs on the clamping slides (28) engage in the fixing holes on the rack ears (29).
- 4. Slide the clamping slides (28) and rack ears (29) into the fixing rails on both sides of the receiver from rear to front.
- 5. Tighten the two Phillips screws in the clamping slides (28) CW > fix the rack ears (29) on the receiver.
- 6. Use the supplied screws to fix the supplied blank panel to the last or right rack ear (29).
- 7. Use the supplied installation screws to install the receiver in the rack.

3.3 Rack Mounting Two Receivers Side by Side Refer to figs. 6 and 7.

- 1. Unscrew the two screws on the bottom of the each side panel support (27).

 2. Remove the two side panel supports (27)
- 3. Fix one rack ear (29) to the outside panel of each receiver referring to steps 1 through 3 above.
- 4. Insert a clamping slide (28) with no rack ear (29) into the fixing rails on the INSIDE PANEL of one receiver.

Refer to fig. 8.

- 5. Insert the receiver with the clamping slide (28) on its inside panel into the fixing raits on the inside panel of the other receiver.
- 6. Tighten the two Phillips screws in the inside clamping slide (28) CW to connect the two receivers.
- 7. Use the supplied installation screws to install the receivers in the rack.

3.4 Connecting the er to a Mixe Refer to fig. 9a.

You can connect the receiver to a mixer in one of two ways:

A. Use a standard XLR cable to connect the MIC OUT connector (7) on the receiver rear panel to a balanced XLR microphone input on the



mixer. Turn the VOLUME control (3) on the receiver all the way CCW to set the receiver output to microphone level.

B. Use a standard 1/4" jack cable to connect the LINE OUT jack (8) on the receiver rear panel to an unbalanced 1/4" line input lack on the mixer. Turn the VOLUME control (3) on the receiver all the way CW to set the receiver output to line level.

Refer to fig. 9b.

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Never use the two audio outputs simultaneously! This may cause signal loss or increased noise.

1. Use a standard 1/4" jack cable to connect the LINE OUT lack (8) on the receiver rear panel to an unbalanced 1/4" line input jack on the amplifier.

2. Turn the VOLUME control (3) on the receiver all the way CW to set the receiver output to line level.

1. Set the SQUELCH control (12) fully CCW.

2. Check that the AC mains voltage stated on the supplied AC adapter is identical to the AC mains voltage available where you will use your WMS 40. Using the AC adapter with a different AC voltage may cause irreparable damage to the unit.

3. Plug the feeder cable on the supplied AC adapter into the DC IN socket (11) on the receiver.

4. Bend part of the feeder cable into a small bight, pass the bight through the strain relief (10) from above, and place the end of the bight snugly against the hook on the strain relief (10). Tighten the cable.

5. Plug the AC adapter into a convenient power outlet.

6. Press the PCWER switch (1) to switch power to the receiver CN.

1. Depress the snap hook on the battery compartment lid (16)/(22),

2. Pull the battery compartment (ld (16)/(22) down to remove it from the transmitter.

The foam pads on the inside of the battery compartment lid (16)/(22) holds the batteries in place. Do not remove the foam pad. If you do, the batteries will not be held in place properly and may cause a rattling noise.

3. Insert the supplied betteries into the battery compartment conforming to the polarity marks.

The transmitter will not function with incorrectly inserted batteries.

4. Set the on/off switch (13)/(18) to "ON" to switch the power to the transmitter on

The status LED (14)/(19) will flash momentarily. If the batteries are in good condition, the status LED (14)/(19) will extinguish.

If the status LED (14)/(19) illuminates the batteries will be dead within about 50 minutes. Replace the batteries with new ones as soon as possible.

If the status LED (14)/(19) fails to flash momentarily the batteries are dead, insert new batteries.

To close the battery compartment, slide the battery compartment lid (16)/(22) onto the battery compartment from below to the point that it will click shut.

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3.5 Connecting the Receiver to an Amplifier

Refer to fig. 10.

3.6 Connecting the Receiver to Power

Refer to fig. 11.

3.7 Inworting Batteries into the Handhold/Bodypack Transmitter and Testing

Important:

Refer to fig. 3/12.



3.8 Setting Up the Transmitter

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Switch power to the receiver on and check the setting of the VOLUME control (3).

Fully CCW if you connected the receiver to a microphone input. Fully CW if you connected the receiver to a line input.

2. Set the on/off switch (13) to "ON" to switch power to the transmitter

Since the HT 40 handheld transmitter has been designed specifically for the integrated microphone element, there is no need to set gain on the handheld transmitter. Therefore, the handheld transmitter. ter has no level or gain control.

Switch power to your sound system or amplifier on.

Talk or sing into the microphone and set the levels on your mixer or amplifier referring to the appropriate instruction manual or by ear.

3.9 Setting Up the Bodypack Transmitter 3.9.1 Connecting a Microphone

(Also refer to section 4

Microphone Technique.)

The PT 40 bodypack transmitter has been designed primarity for use with the C 417 L, C 420 L, and C 444 L microphones from AKG. If you wish to connect other microphones from AKG or other manufacturers to the PT 40, please note that you may have to rewire the existing connector of your microphone or replace it with a 3-pin mini XLR connector.

Audio input (20) pinout:

Pin 1: shield

Pin 2: hot (audio inphase)

Pin 3: audio return

A positive supply voltage of 3.8 V for condenser microphones is available on pin 2.

Important:

Please note that AKG cannot guarantee that the PT 40 bodypack transmitter will work perfectly with products from other manufacturers and any damage that may result from such use is not covered by the AKG warranty scheme.

- Remove the bettery compartment lid (22).
 Set the MIC/LINE switch (24) to "MIC" and use the supplied screwdriver (9) to set the GAIN control (25) to a position halfway between full CCW and full CW.
- 3. Plug the mini XLR connector on the cable of your microphone into the audio input connector (20) on the bodypack transmitter. Set the on/off switch (18) to "ON" to switch power to the transmitter
- Switch power to the receiver and your sound system or amplifier on.
- Talk or sing into the microphone and set the levels on your mixer or amplifier referring to the appropriate instruction manual or by ear.

Microphone Technique.) 3.9.2 Connecting an Instrument

(Also refer to section 4

- 1. Remove the battery compartment lid (22).
- Set the MIC/LINE switch (24) to "LINE" and use the supplied screwdriver (9) to set the GAIN control (25) to a position halfway between full CCW and full CW.

Refer to fig. 12.

 Plug the 1/4" jack plug on the optional MKG/L guitar cable to the output jack on your instrument and the mini XLR connector on the guitar cable into the audio input connector (20) on the bodypack transmitter.



- Set the on/off switch (18) to "ON" to switch power to the transmitter on.
- 5. Switch power to the receiver and your sound system or amplifier on.
- Play your instrument and set the levels on your mixer or amplifier referring to the appropriate instruction manual or by ear.
- 1. Use a screwdriver to lift the upper end of the color code clip (15),
- 2. Pull the color code clip (15) off the transmitter case.
- Slide the supplied black clip onto the transmitter to the point that it snaps into place with an audible click.
- Move the transmitter around the area where you will use the system
 to check the area for "dead spots", i.e., places where the field
 strength seems to drop and reception deteriorates.
 If you find any dead spots, try to eliminate them by repositioning the
 receiver, if this does not help, avoid the dead spots.
- If unwanted noise becomes audible, turn the SQUELCH control (12)
 on the receiver CW just enough to supprese the noise.
 The RF LED (4) will extinguish every time the equelch mutes the audio output of the receiver.

Never set the squeich threshold higher than absolutely necessary. The higher the squeich threshold, the lower the sensitivity of the receiver and thus the usable range between transmitter and receiver.

 The RF LED (4) on the receiver going out means no signal is being received or the squelch is active.
 Remedies: Switch power to the transmitter ON, move closer to the receiver, or turn the SQUELCH control (12) CCW to the point that the RF LED (4) will come back on. 3.10 Reptacing the Handheld Transmitter Color Code City Refer to fig. 13.

3.11 Before the Soundcheck

Important

4 Microphone Technique p

A handheld vocal microphone provides many ways of shaping the sound of your voice as it is heard over the sound system.

The following sections contain useful hints on how to use your HT 40 handheld transmitter for best results.

Basically, your voice will sound the bigger and mellower, the closer you hold the microphone to your lips. Moving away from the microphone will produce a more reverberant, more distant sound as the microphone will pick more of the room's reverberation.

You can use this effect to make your voice sound aggressive, neutral, instructing, etc. simply by changing your working distance.

Proximity effect is a more or less dramatic boost of low frequencies that occurs when you sing into the microphone from less than 2 inches, it gives more "body" to your voice and an intimate, base-heavy sound.

4.1 HT 40 Handheld Transmitter

4.1.1 Working Distance and Proximity Effect

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i Microphone Technique

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4.1.2 Angle of

Sing to one side of the microphone or above and across the micro-Incidence phone's top. This provides a well-belanced, natural sound.

Refer to fig. 14.

If you sing directly into the microphone, it will not only pick up excessive breath noise but also overemphasize "sss", "sh", "tch", "p", and "t" sounds.

4.1.3 Feedback

Refer to fig. 15.

Feedback is the result of part of the sound projected by a speaker being picked up by a microphone, fed to the amplifier, and projected again by the speaker. Above a specific volume or "system gain" setting called the feedback threshold, the signal starts being regenerated indefinitely, making the sound system howl and the sound engineer desperately dive for the master fader to reduce the volume and stop the howling.

To increase usable gain before feedback, the microphone element of the HT 40 handheld transmitter has a supercardioid polar pattern. This means that the microphone is most sensitive to sounds arriving from in front of it (your voice) While picking up much less of sounds arriving from the sides or reer (from monitor speakers for instance).main ("FOH") speakers in front of the microphones (along the front edge of the stage). If you use monitor speakers, be sure never to point any microphone directly at the monitors, or at the FOH speakers.

Feedback may also be triggered by resonances depending on the acoustics of the room or hell. With resonances at low frequencies, proximity effect may cause feedback. In this case, it is often enough to move away from the microphone a little to stop the feedback.

4.1.3 Backing Vocals

Never let more than two persons share a microphone.

Refer to fig. 16.

2. Ask your backing vocalists never to sing more than 35 degrees off the microphone axis, The microphone is very insensitive to off-axis sounds. If the two vocalists were to sing into the microphone from a wider angle than

35 degrees, you may end up bringing up the fader of the microphone channel far enough to create a feedback problem.

4.2 C 417 L Lavader Microphone

- 1. Fix the microphone to the H 40/1 lavelier clip or H 41/1 tie pin referring to the C 417 L Instruction manual.
- 2. Clamp the microphone on your clothing as close as possible to your mouth.

Remember that gain-before-feedback will be the higher the smaller the distance between the microphone and the mouth!

Make sure to aim the microphone at your mouth.

4.3 C 420 L. C 444 L Headest Microphones

Refer to the user's manual of the respective microphone for instructions on how to use headset microphones.

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Use a soft cloth moistened with water to clean the receiver and transmitter surfaces.

6.1 Surfaces

- 1. Unscrew the wire-mesh cap of the handheld transmitter CCW and remove the wire-mesh cap from the transmitter.
- Remove the windscreen (foam sheet) from the wire-mesh cap.
- 3. Wash the windscreen in mild scrap suds.

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4. As soon as the windscreen has dried, replace it in the wire-mesh cap and screw the wire-mesh cap onto the transmitter CW.

5.2 HT 40 Internal

6 Troubleshooting



Problem moch 1. Connect AC adapter to No sound. 1. AC adapter is not connected to receiver and/or power receiver and/or power outcuttet. let. 2. Receiver is OFF, 2. Push POWER switch to switch receiver ON. 3. Receiver is not connected 3. Connect receiver output to mixer or amplifier input. to mixer or amplifier. 4. VOLUME control on recei-Turn up VOLUME control. ver is at zero. 5. Microphone or instrument 5. Connect microphone or instrument to audio input is not connected to bodypack transmitter. on bodypack. 6. Transmitter and receiver 6. Use receiver and transmitcolor codes are not ter with identical color identical. codes. 7. Transmitter on/off switch is 7. Set transmitter on/off at "OFF" or "MUTE". switch to "ON". 8. Transmitter batteries are 8. Insert batteries conforming to "+" and "-" marks. not inserted properly. Transmitter batteries dead. 9. Replace batteries. 10. Transmitter is too far away 10. Move closer to receiver or from receiver or SQUELCH turn down SQUELCH concontrol set too high. trol. 11.Obstructions between 11. Remove obstructions from transmitter and receiver. between transmitter and receiver. 12.Receiver is invisible from 12.Avoid spots where you transmitter location. cannot see receiver. 13. Receiver is too close to 13. Move receiver away from or metal objects. remove interfering objects. Noise, crackling, unwanted Antenna location. 1. Relocate receiver. signale. 2. Interference from other 2. Switch off interference wireless systems, TV, radio, CB radios, or defective sources or defective appliances or use a WMS 40 · electrical appliances or tuned to a different freinstallations. quency; have electrical installation checked.



Troubleshooting

Problem	Possible Cause	1. Turn GAIN control down or
Distortion.	 (Bodypack transmitter only:) GAIN control is set too high or too low. Interference from other wireless systems, TV, radio, CB radios, or defective electrical appliances or installations. 	up just enough to stop the distortion. 2. Switch off interference sources or defective appli-
Momentary loss of sound ("dropoute") at some locations within performance area.	1, Antenna location.	Relocate receiver, if dead spots persist, mark and avoid them.

ØΩ VdB

7 Specifications - -

	HT 40	PT 40	SR 40
Carrier frequency	710.4 - 864.365 MHz	710.4 - 864,365 MHz	710.4 - 864.365 MHz
Modulation	FM	FM	FM
Audio bandwidth	40 to 20,000 Hz	40 to 20,000 Hz	40 to 20,000 Hz
Frequency etablility (-10°C to +50°C)	±15 kHz	±15 kHz	±15 kHz
Rated deviation	15 kHz	15 kHz	TIG KIL
T.H.D. at 1 kHz	typ. 0.8%	typ. 0,8%	typ. 0,8%
Compander	Yes	Yes	Yes
Signat/noise ratio	typ. 103 dB(A)	typ. 103 dB(A)	typ. 103 dB(A)
RF output	10 mW	10 mW	-
Current consumption	typ. 70 mA	typ. 70 mA	
Power requirement	2 x 1.5 V AA size batteries	2 x 1,5 V Batterien Größe AA	120/230 V AC 50/60 Hz
Battery life	30 hours	30 hours	-
Input sensitivity		-	typ95 dBm
Audio input level for rated deviation	100 mV/1 kHz	300 mV (MIC); 110 mV (LINE)	
Input impedance	220 kΩ	typ. 140 kΩ7450 pF	•
Condenser mic power supply	-	3.8 V/4,7 kΩ (pin 3)	-
Squeich threshold	-		-70 to -98 dBm
Audia autput	-		XLR bal, and unbal, 1/4" jack: adjustable from mic to line level: 2 Vrme max.
Size (WxDxH)	258 x ø 40 mm (10 x 1.6 dia, in.)	64 x 22 x 96 mm (2.5 x 0.9 x 3.8 in.)	235 x 142 x 43 mm (9.3 x 5.6 x 1.7 in.)
Net weight			