

Stagg®

USER MANUAL



CARDIOID DYNAMIC
MICROPHONE



LAVALIER CONDENSER
MICROPHONE



HEADSET CONDENSER
MICROPHONE



SUW50

2-CHANNEL WIRELESS SYSTEM

Please read the instructions carefully before use

MANUAL FOR STAGG SUW50

This is the user manual for the double UHF wireless true diversity Stagg SUW 50 sets with digital audio processing.

The SUW50 SETS contain two or more transmitters which can be either a handheld microphone, a belt-pack with lavalier or a belt-pack with headset microphone. It also contains a two-channel receiver that must be linked to an amplifier or a mixer for it to be heard.

This manual contains important safety information as well as the instructions required for the intended use of the device. Please read it carefully before use. The SUW 50 SETS are sold in different configurations. Some parts of this manual may not apply to the version you bought.

Please note that the design and the technical specifications of the device are subject to change without any prior notice. Check the website for updates.

GENERAL INFORMATION ON WIRELESS SYSTEMS USE

Wireless systems have one or more transmitters and the same number of receivers. Together they become a 'channel'. The Stagg SUW 50 has two channels. The connection between transmitter and receiver is wireless by radio frequency (RF). The Stagg SUW 50 works in the UHF band which is known for high-quality transmission and has two fixed frequencies. You can find these frequencies on the packaging and on the units. It is important when you buy a second SUW 50 that the frequencies are different from your first set.

Radio frequencies can interfere with each other, whether they are internal or external. The choice of frequencies we offer for your country eliminates the internal interferences. Many sophisticated features that are built into the SUW50, such as multilevel high frequency and mid-frequency narrowband filter, multiple noise detection and control will reduce external interferences to a minimum. Unlike most wireless systems, the SUW50 has digital sound processing for the audio modulation (AF) and its audio compressing-expanding technology can lower noises and increase the dynamic range. It can also lower feedback issues and has a strong anti-jam capability.

The batteries in the transmitters have to be changed regularly to ensure smooth performance.

SAFETY INSTRUCTIONS

- Thank you for purchasing this product. It has been thoroughly tested and has been shipped in perfect operating condition.
- Before using the product, carefully check the packaging for damage. If the packaging is damaged, carefully inspect the device. If anything is damaged, please contact your vendor or call our customer support number.
- Do not open the receiver or power supply. Leave all servicing to qualified personnel. The SMPS power supply (switched mode power supply) works between 100V AC and 240V AC.
- Make sure the mains plug corresponds to your local need.
- Only use the device in a dry location. Do not operate the device if the ambient temperature or humidity is very high.
- Do not spill or splash liquids on the receiver. Should this happen, unplug the power supply.
- Unplug this unit from the wall outlet before cleaning. Do not use cleaning fluids or aerosol cleaners. Use a damp cloth.

MARKING & CONFORMITY

1. The CE mark on this product means it conforms to the EMC Directive (2014/30/EU), LVD Directive (2014/35/EU), RED Directive (2014/53/EU) and CE marking Directive (93/68/EEC).
2. RoHS compliant means this device conforms to the Directive (2011/65/EU) on the restriction of the use of certain hazardous substances in electric equipments, such as Mercury, Lead, Cadmium, Hexavalent Chromium, Polybrominated Biphenyl (PBB) and Polybrominated Diphenyl Ethers (PBDE).
3. The Crossed-out Wheeled Bin is to draw your attention to the WEEE (Waste Electric & Electronic Equipment) Directive (2002/96/EC). It means this apparatus must be collected separately for recycling.

CONTROLS

The numbers 2, 3, 4 and 9 of the diagram are related to the first fixed radio frequency A which is hereafter referred to as Channel A.

The numbers 5, 6, 7 and 8 of the diagram are related to the second fixed radio frequency B which is hereafter referred to as Channel B.

RECEIVER FRONT PANEL



1. POWER switch: This switch turns on/off the power of the receiver.
2. VOLUME: Controls the audio volume of the source A.
3. RF indicator LED: This LED turns on yellow when the receiver A “connects” with an emitter A, handheld microphone or belt-pack. This means they work on the same radio frequency A.
4. AF indicator LED: This LED turns on green when the receiver A receives audio signals from emitter A.
5. VOLUME: Controls the audio volume of the source B.
6. RF indicator LED: This LED turns on yellow when the receiver B “connects” with an emitter B, handheld microphone or belt-pack. This means they work on the same radio frequency B.
7. AF indicator LED: This LED turns on green when the receiver B receives audio signals from emitter B.

RECEIVER REAR PANEL



8. LINE OUT channel B: Unbalanced XLR line level output with audio signal from emitter B to connect a mixer, an amplifier or powered speaker cabinet.
9. LINE OUT channel A: Unbalanced XLR line level output with audio signal from emitter A to connect a mixer, an amplifier or powered speaker cabinet.
10. Mono Phone jack MIX out: This output mixes outputs 8 and 9.
11. DC 12-18V: Connects to the external SMPS power supply (100-250 V AC 13.5 V DC).
12. UHF antennas: For true diversity reception. They have to be set upright for best reception.

WIRELESS MICROPHONES



- 13. 3-position switch: Off / Stand-by / Operational.
 - 14. Red colour LED: Informs on the status of microphone and batteries. When switched on "stand by", the LED light briefly switches on. When the battery levels get low, the LED light will be continuously on.
 - 15. Battery compartment: Holds 2 AA batteries. Screw the lower body part off and flip the holder downwards to get access.
- To ensure long battery performance, please switch the transmitter off when you are done using it.

BELT-PACKS



- 16. Belt-pack antenna.
 - 17. 2-colour LED: Informs on the status of connection and batteries.
 - 18. On/off push button.
 - 19. Mini XLR audio input: Input for lavalier, headset microphone or guitar cable for acoustic-electric guitar.
 - 20. Battery compartment: Holds 2 x AA batteries.
 - 21. Sensivity trim pot: Allows adjustment to different input levels
- To ensure long battery performance, please switch the transmitter off when you are done using it.

LAVALIER PICK UP (L):



Phantom-powered cardioid condenser microphone. Connects to the belt-pack.

HEADSET MICROPHONE (H):

Phantom-powered cardioid condenser microphone. Connects to the belt-pack.



TECHNICAL SPECIFICATIONS

RECEIVER

- Fixed frequencies: 863.8 – 864.5 / 864.2 – 864.7
- Audio output unbalanced: Maximum 5 dBu
- Power supply: 12-18 V DC
- Power consumption: 150 mA (at 13.5 V DC)
- Receiver sensitivity: - 90 dBm

HANDHELD MICROPHONE AND BELT-PACK TRANSMITTER

- Fixed frequencies: 863.8 – 864.5 / 864.2 – 864.7
- RF emitting power: 10 mW
- Battery type: 2 x AA battery
- Frequency response: 50 - 20 000 Hz
- Input sensitivity: 2.1 mV / Pa
- Power consumption: 100 mA at 3 V

SYSTEM

- Total harmonic distortion: 0.1 %
- Signal-to-noise ratio: 96 dB
- Fixed frequencies: 863.8 – 864.5 / 864.2 – 864.7
- Operational bandwidth: 300 kHz
- Dynamic range: 90 dB
- Audio sampling: 24 bits / 48 kHz
- Oscillation mode: PLL synthesized
- Audio delay: 3 ms
- Audio encoder: PT live
- Frequency response: 20 – 20 000 Hz
- Working distance: 60 m (200')

Usage:

Do not place the system in a wet environment, or in the bright sunshine or in high temperatures. Avoid being near strong electromagnetic fields.

Please unplug the adapter of the receiver and take out the batteries from the transmitter after use.

Cleaning:

Unplug this unit from the wall outlet before cleaning. Do not use cleaning fluids or aerosol cleaners. Use a damp cloth.

Power:

Make sure the adapter fits the voltage, and the batteries are put into the transmitter correctly.

Maintenance:

Do not open this unit and service it by yourself. Should you encounter any problems, please contact the local distributor or factory for servicing.

Accessories:

In order to keep this unit in perfect working condition, please use the accessories approved by the manufacturer.

Warranty:

Do not open or modify this unit by yourself. If you do, the warranty will automatically become null and void.

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