USER'S MANUAL

VOKAL

PROFESSIONAL SOUND PERFORMANCE

UHF Wireless System

VWR-25 / VWR-15

INTRODUCTION

Thank you for purchasing the VOKAL VWR Series wireless system.
Please read this user's manual carefully so you can operate the product correctly.
Your new VOKAL wireless system was developed to offer you the best results in sound reinforcement, while allowing total freedom of movement.
This manual covers all VWR-15/VWR-25 systems and their variations.
We recommend storing this manual for future reference.

SYSTEM FEATURES

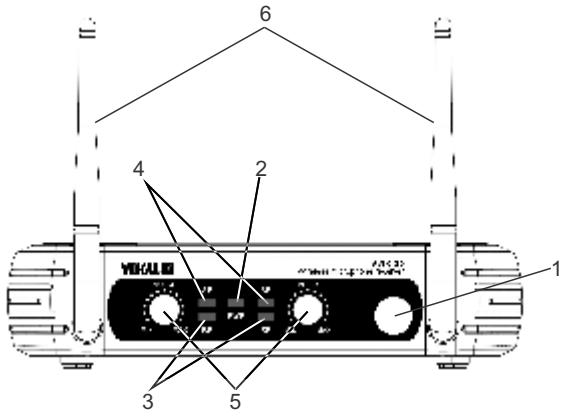
1 - Multiple systems use: several VWR systems may be used simultaneously in the same area, as long as each system has a different UHF frequency (frequency marked at the back of the receiver);
2 - Outputs simultaneous use: the unbalanced ¼" and balanced XLR outputs may be used simultaneously;
3 - Range: the VWR Series transmitters can operate up to a distance of 50 meters (160 ft.) without obstacles;
4 - Noise reduction: the noise reduction circuit analyses power and signal quality in order to reduce noise bursts caused by RF in the environment;
5 - Low battery warning light: a red light on the body-pack and handheld transmitters warns the user when there is less than one hour of battery life left.

SYSTEM CARE

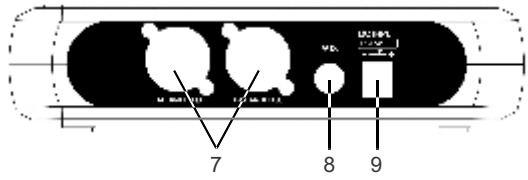
- Never leave batteries inside transmitters after use;
- Avoid letting the microphone fall, since its capsule may be damaged;
- Never use water or chemicals to clean the equipment. Always use a dry cloth;
- Make sure the electricity output source is correct;
- Keep your system inside the case after use if it won't be used for a longer period.

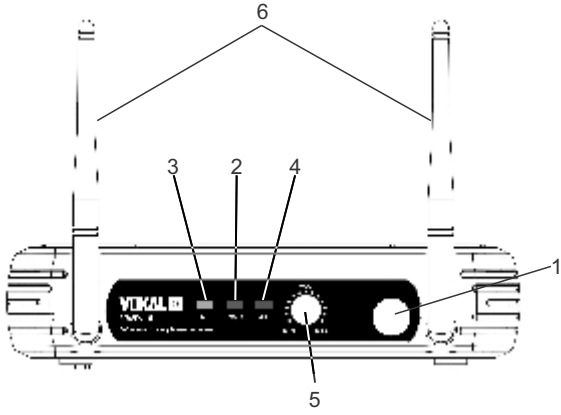
RECEIVER FEATURES AND COMPONENTS

1 - POWER switch: turns unit ON and OFF
2 - POWER ON indicator: this red LED will turn ON when receiver is switched ON
3 - RF signal indicator: this green LED will turn ON when RF signal is received from the transmitter. For the model VWR-25 there are indicators for channels A and B.
4 - Audio level indicator: shows the level of audio signal being received, turning ON when the level is satisfactory
5 - Volume Control: controls the output volume of the receiver
6 - Antennas for signal reception
7 - Balanced XLR audio output jacks
8 - Unbalanced ¼" audio output jack
9 - Power jack: connect to AC/DC power adapter
10 - AC/DC power adapter (110-220V): we recommend the use of the original power adapter only

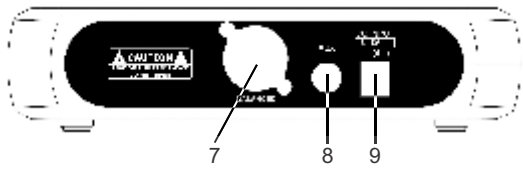


VWR-25



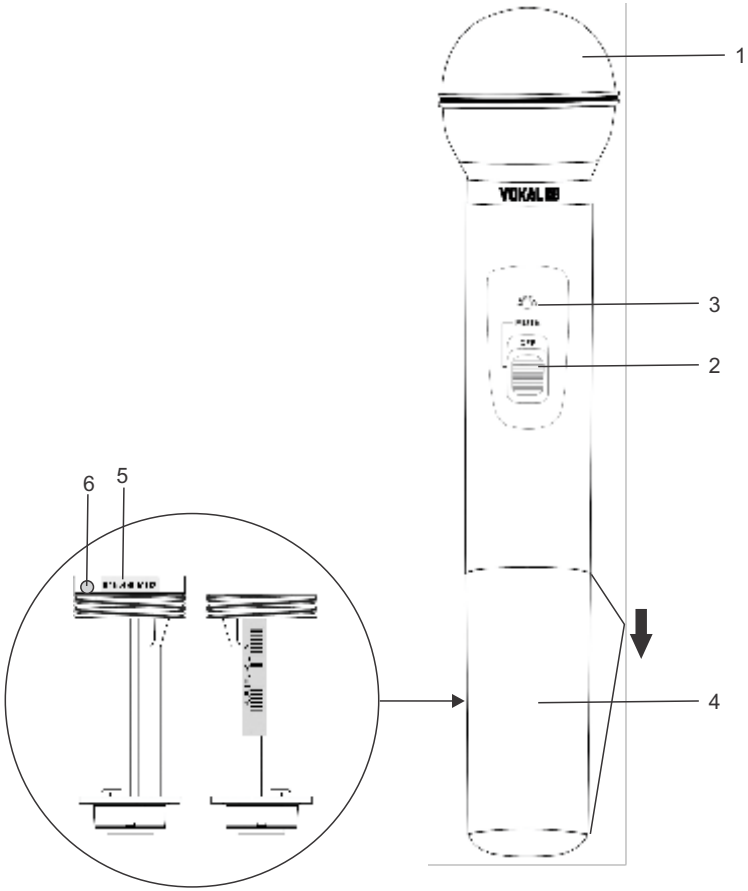


VWR-15



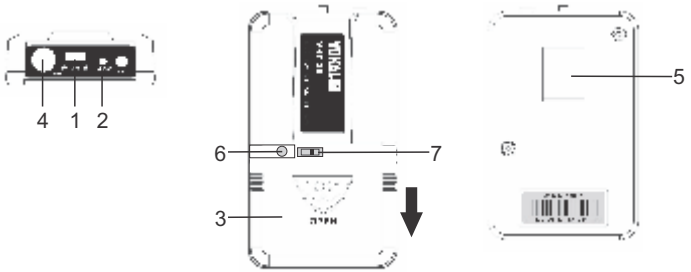
HANDHELD TRANSMITTER FEATURES AND COMPONENTS

1 - Grille: protects capsule and reduces noises caused by breathing
2 - ON/OFF/MUTE key: when this key is put on the ON position, the LED (3) will turn on for a moment and the microphone will be turned ON. On MUTE position, the system will stay ON but the audio capture will be cut-off. On OFF position the system will be turned OFF.
3 - Low battery indicator: when this LED remains ON it indicates that the batteries must be replaced
4 - Battery compartment: requires use of 2 AA type batteries
5 - FM frequency used by the system
6 - Transmitter gain control



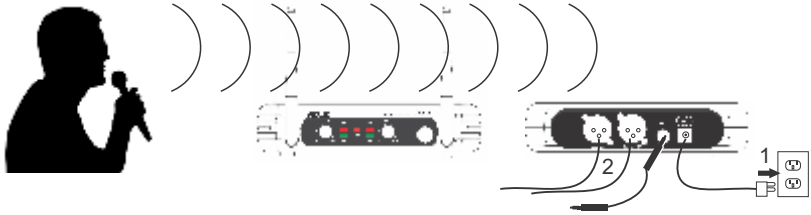
BODY-PACK TRANSMITTER FEATURES AND COMPONENTS

1 - ON/OFF/MUTE key: when this key is put on the ON position, the LED (3) will turn on for a moment and the microphone will be turned ON. On MUTE position, the system will stay ON but the audio capture will be cut-off. On OFF position the system will be turned OFF.
2 - Low battery indicator: when this LED remains ON it indicates that the batteries must be replaced
3 - Battery compartment: requires use of 2 AA type batteries. Move cover down to open.
4 - Input connector: for connection with the headset microphone, lavalier microphone or instrument cable
5 - Belt clip
6 - Audio gain control: adjusts the audio level according to the different types of signal input. Use a little flat screwdriver to make the adjustment, turning clockwise to increase level, and anti-clockwise to decrease the level
7 - Microphone selector key: “L” for Lavalier, “H” for headset



OPERATING THE UHF SYSTEM

1 - Connect the power adapter to the DC input and to an AC power outlet
2 - Connect the balanced XLR or unbalanced ¼” output jack to the sound system, using the appropriate cable depending on the option made
3 - Switch the transmitter ON/OFF key to the ON position. The transmitter LED indicator will turn on for a moment and the receiver LED indicator will remain ON
4 - Adjust the volume on the receiver
5 - After use, turn receiver off and move the transmitter ON/OFF key to the OFF position to preserve battery charge.



Note: when using the system in modes Lavalier and Headset, make sure the transmitter key is on the correct position (“L” for Lavalier, “H” for headset).

RECEIVER SPECIFICATIONS

Power Requirements (Adapter)	120V or 230V AC, adaptor with 2.1mm female plug
Power Requirements	13 ~ 15 DC nominal, 200mA / 300mA
Signal / Noise Ratio	More than 85 dB
Border Upon Channel Rejection	More than 70 dB
Image & Spurious Rejection	More than 70 dB
Audio Output Level	0 ~ ± 300 mV
Receiving Sensitivity	-105 dBm
Dimensions	170 x 100 x 90 mm

BODY PACK / HAND HELD TRANSMITTER SPECIFICATIONS

Power requirements	1,5V AA battery x2
Nominal Current Drain	Less than 100mA
Modulation Type	FM
RF Output	More than 10 dBm
Max Deviation	± 70 kHz
Spurious Emission	More than 55 dBm
Dimensions	238 x 50 x 50 mm (Hand Held) 100 x 65 x 30 mm (Body Pack)

SYSTEM SPECIFICATIONS

• RF Carrier Frequency Range: Approximately 460 to 970MHz (available frequencies depend on applicable regulations in country system is used)
• Operation Range: 50m (aproximately 164ft) under typical conditions
• Audio Frequency Response: 100 to 18,000Hz, ±3dB
•THD: <1%
• Mobile status Range: >100dB

OPERATION TEMPERATURE RANGE

-29º to 74ºC (-20º to 165ºF) Note: Battery caracteristics may limit this range.

TROBLESHOOTING

PROBLEM	INDICATOR STATUS	SOLUTION
No sound.	Transmitter red LED indicator does not flash	Switch transmitter POWER ON/OFF key to the ON position. Make sure batteries are inserted properly, observing battery (“+/-“). If batteries are inserted properly, replace them with new ones.
No sound.	Transmitter red LED indicator flashes	Switch transmitter key to the ON position
No sound.	Receiver power light indicator is off	Make sure the AC adapter is securely plugged into the power outlet and into the DC input jack. Make sure the AC power outlet supplies proper voltage
No sound.	Receiver A/B signal indicators are ON	Turn up the receiver volume control. Confirm that the output connections from the receiver to the external equipment are secure
No sound.	Receiver A/B signal indicators are OFF. Transmitter and receiver power lights are ON	Confirm that transmitter and receiver frequencies match. Move transmitter closer to receiver
Sound level different from the instrument	Receiver A/B signal indicators are ON	Adjust transmitter gain level. Adjust receiver volume if necessary.
Sound level differs between different guitars	Receiver A/B signal indicators are ON	Readjust transmitter gain level to compensate for differences between guitar output levels
Distortion level increases gradually	Receiver A/B light indicators and transmitter low battery indicator are ON	Replace transmitter battery
Bursts of noise or other audible radio signals present	Receiver A/B signal indicators are ON	Identify potential sources of interference (other RF sources) and/or use another wireless system with a different UHF frequency
Momentary loss of sound as transmitter is moved around	Receiver A/B light indicators go OFF when signal is lost	Reposition receiver and perform walk-through test again. If audio dropout persists, mark the “dead” spots and avoid the during performance

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