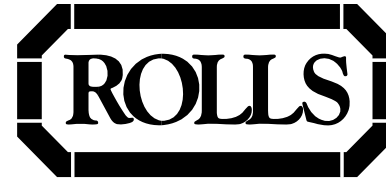


# WPM61 WIRELESS PERSONAL MONITOR SYSTEM

The WPM61 is a compact yet powerful audio wireless system for efficient in-ear monitoring for musicians and singers, and for assistive listening. The system consists of a transmitter and body pack receiver. The signal is very stable, even at long ranges. Multiple receivers may be used with a single transmitter.

- High VHF operation
- Crystal-controlled for drift free transmission
- Four channels available
- Musician in-ear monitor
- Assistive Listening
- Language interpretation
- Mobile audio recording
- Beltpack receiver has lots of volume
- 9V Battery operation (optional AC adapter available)

The WPM61 operates on the following frequencies:  
216.6525 MHz, 216.0125 MHz, 216.9725 MHz & 216.3325 MHz.



## WPM61 Wireless Personal Monitor System



Rolls Corporation  
Salt Lake City, UT  
8/02

WPM61 Wireless Pers Mon



Owners Manual

Thank you for your purchase of the WPM61 Wireless Personal Monitor System. This unit applies VHF frequency design, with high quality sound and stable signal. It features a wide dynamic range, it is compact and convenient.

**INSPECTION**

1. Unpack and inspect the WPM61 box and package. If obvious physical damage is noticed, contact the carrier immediately to make a damage claim. We suggest saving the shipping carton and packing materials for safely transporting the unit in the future.
2. Please visit our website at [www.rolls.com](http://www.rolls.com), and register your new WPM61 by clicking on the [Register Your Warranty Here](#) line. Or, complete the Warranty Registration Card and return it to the factory.

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**IMPORTANT NOTICES**

**THE EARPHONES USED WITH THE WPM61 MUST BE TRS STEREO, NOT MONO. USING MONO EARPHONES WILL DAMAGE THE RECEIVER.**

**POWER SUPPLY**

The WPM61 does not include an external power supply. To purchase a Rolls PS27, contact Rolls at (801) 263-9053, or the retailer from which you purchased the system.

This product is warranted to the original consumer purchaser to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

The obligation of Rolls Corporation under this warranty shall be limited to repair or replacement (at our option), during the warranty period of any part which proves defective in material or workmanship under normal installation, use and service, provided the product is returned to Rolls Corporation, **TRANSPORTATION CHARGES PREPAID**. Products returned to us or to an authorized Service Center must be accompanied by a copy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture.

This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized Service Center, or any use violative of instructions furnished by us.

This one-year warranty is in lieu of all expressed warranties, obligations or liabilities. **ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE ONE YEAR DURATION OF THIS WRITTEN LIMITED WARRANTY.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

**IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER.** Some states do not allow the exclusion or limitation of special, incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

## SPECIFICATIONS

### TRANSMITTER

Frequency Response:	30 Hz - 15kHz
Frequency Stability:	+/-10 ppm (under 25 degrees C)
Modulation:	10kHz +/- 2kHz (1kHz 50mV)
Transmitting Power:	10mW
Spurious Emission:	80dB below carrier
Distortion:	<1%
Max AF Input Signal:	500mV
Power Source:	9V battery, or or external DC 12V
Current Consumption:	28mA +/-5mA
Dimension (LxWxH):	100x63x25 mm

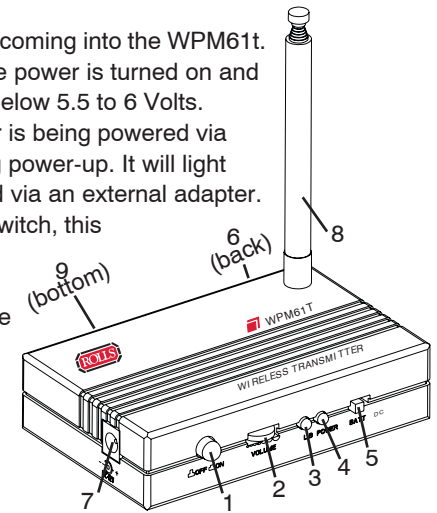
### RECEIVER

Sensitivity:	2.5 $\mu$ V min (under squelch control)
Max. Power:	20mW min (at 16 $\Omega$ speaker load)
Distortion:	3% max (under 10mW output)
Frequency Stability:	+/-0.01% ppm (under 25 degrees C)
Hum and Noise:	- 50dB min
Power Source:	9V DC (alkaline recommended)
Current Consumption:	DC 20mA max
Dimension:	60x25x100 mm

## DESCRIPTION

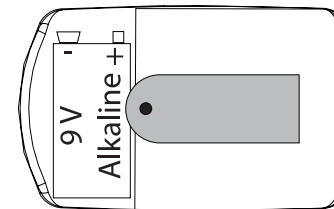
### TRANSMITTER

1. Power Switch: Turns the WPM61t on and off. When pressed in, the unit is ON.
2. Volume Control: Adjusts the level of signal coming into the WPM61t.
3. Low Battery LED indicator: Blinks when the power is turned on and a battery is installed, will stay lit if voltage is below 5.5 to 6 Volts.
4. Power LED Indicator: When the transmitter is being powered via battery, this light will blink momentarily during power-up. It will light continuously when the transmitter is operated via an external adapter.
5. BATT/DC switch: External power source switch, this switch MUST be moved to the BATT location for the unit to operate on battery power. Conversely, the switch MUST be moved to the DC location when the unit is to be operated via external 12 VDC power (Rolls PS27).
6. Audio Input (Labeled AF IN): 1/8" (3.5mm) jack connect to a line level monitor source.
7. External 12 VDC input. Rolls model PS27.
8. Telescope Antenna: Extend fully for best transmission/reception.
9. Battery Compartment: Location for 9V alkaline battery.

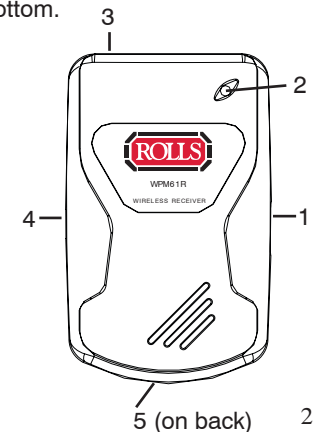


### RECEIVER

1. Power Switch: Turns the WPM61r on and off. When moved toward the top of the WPM61r, the unit is on. **IMPORTANT! When the WPM61r is not in use, make sure this Power Switch is turned OFF. Otherwise, the battery will continue to drain.**
2. Power LED Indicator: Blinks when the Power Switch is first turned ON, will stay lit when the battery drops below 5.5 to 6 volts and the receiver will no longer operate.
3. Audio earphone output (Labeled AF OUT): 1/8" (3.5mm) TRS stereo output jack.
4. Volume Control: Adjusts the output level of the WPM61r to the earphone jack.
5. Battery Compartment: Location for the 9 V alkaline battery. NOTE: The polarity for installing the battery is shown below. The positive connection is toward the top of the WPM61r, the larger negative connection is toward the bottom.



Battery installation



First, place the WPM61t transmitter in a flat location, preferably in a "line of sight" location where the transmitter and the receiver are not blocked by any obstacles.

If the WPM61t is to be powered by a battery, make sure a fresh 9V alkaline battery is properly installed (see page 2). If the unit is to be powered by an external power supply (the Rolls PS27), connect the power supply to the DC-12V jack on the side of the WPM61t and an AC outlet.

Begin with the WPM61t Volume control set at minimum.

Adapter cables may be needed to properly connect your monitor source and the WPM61t. For example, if you are connecting the WPM61t to a typical Monitor Send of a mixer which is 1/4" unbalanced (Tip-Sleeve), you will need a cable with a 1/8" (3.5mm) plug on one end, and a 1/4" plug on the other.

The Input jack on the WPM61t will accept 1/8" Tip-Ring-Sleeve stereo signals, and 1/8" Tip-Sleeve mono signals. However, stereo signals are mixed to mono inside the WPM61t.

Connect your stereo earphones to the WPM61r Headphone Output jack (Labeled AF OUT), begin with the Volume Control set at minimum.

Extend the WPM61 antenna fully and position it 90 degrees from the top of the transmitter.

Press the ON/OFF switch on the WPM61t transmitter and make sure the unit powers up, then power up the WPM61r receiver. Place the earphones in your ears. Send a signal to the transmitter and carefully bring up the Volume controls on the transmitter and receiver until a comfortable listening level is achieved.

A note for musicians, during your "sound check" often the stage volume is much lower than it will be during performance. You may wish to set your earphone levels a little higher to compensate for this difference.

Test the range of the WPM61 by walking around the stage or area where the receiver will be used. As you walk around the area, listen closely for "drop outs" or areas where the signal may be lost or fuzzy. You may compensate for these areas by moving the transmitter in different directions 8 - 10 inches. As mentioned earlier, a "line of sight" arrangement of transmitter and receiver will achieve the best results.

#### IMPORTANT

In ear monitor systems operate best when the stage volumes are low. The high sound pressure levels produced by floor monitors can bleed through your earpieces and may effect the usefulness of the WPM61 system.

#### CHANNEL SELECTION

Each WPM61 system ships from the factory set at one of four pre-selected frequencies of operation. Multiple receivers may be operated with a single transmitter if the same signal is to be heard by each receiver. These channels may not be changed.

If a band wishes to use the WPM61 system, each person must use a different WPM61 channel system and a maximum of four systems may be used for different audio mixes.