



PV1® UHF

Wireless microphone system



CONTENTS	2
INTRODUCTION	3
RECEIVER	4
INSTRUMENT CONNECTION	6
HANDHELD MIRCROPHONE	6
BODYPACK TRANSMITTER	8
OPENING BATTERY	
COMPARTMENT	11
SPECIFICATIONS	12

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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operated in conjunction with any other antenna or transmitter.

INTRODUCTION

Thank you for purchasing a Peavey PV®-1 UHF Diversity Wireless Microphone System. The PV-1 UHF wireless systems have user friendly features and are available in handheld, lavalier, headset and guitar models.

- Clear channel UHF operation in three available frequencies.
- The proprietary compander circuitry yields a dynamic range of up to 120dB
- Squelch control for locking out potential interference. Choice of Transmitters:
 - Bodypack with input level control.
 - Handheld microphone is equipped with a neodymium cartridge that delivers high quality audio reproduction, minimal handling noise and enhanced feedback rejection.
- Diversity receiver allows for maximum reception range and dropout protection, full LED indicators, both ¼" unbalanced and XLR balanced outputs, and special circuitry for noiseless transmitter ON/OFF switching.

UHF RECEIVER

1. Powering the receiver

Plug the 12V AC/DC ADAPTER (12) provided into the DC INPUT JACK (6) in to the back of the receiver. Then plug the power supply into an AC outlet. (Note: Any DC source with 500mA capability can also be used.) Press the POWER SWITCH once to turn on the receiver. The POWER ON LED (1) will now illuminate and the receiver is operational.

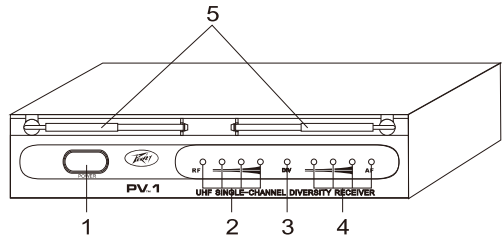
2. Antennas

Extend ANTENNAS 5) fully to obtain maximum range. Optimal antenna position is 45 degrees from the receiver (at 90 degrees from each other).

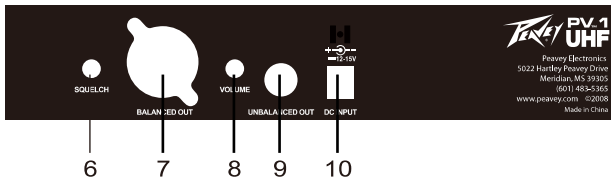
3. Squelch Adjustment

In normal operation, the SQUELCH CONTROL (6) should be set fully clockwise to the factory preset RF level (Max. Sens.). However, in areas of high RF activity, the squelch (or mute, as it is sometimes called) may need to be adjusted to compensate for the adverse conditions in a particular location. If, with the transmitter off, the receiver's A and/or B DIVERSITY LED INDICATORS (3) flicker or stay on, the squelch control should be turned counterclockwise until the A and/or B LEDs extinguish.

When the squelch is properly adjusted, the A and/or B LEDs will only light when the system transmitter is turned on. Turning the squelch control too far counterclockwise will reduce the range, but yield a quieter squelch (mute) function. During operation, especially at ranges greater than 75 feet, one or the other of the A or B LEDs may extinguish briefly. This is normal – the unit's Diversity reception ensures that the received audio will not be interrupted. When both LEDs extinguish, the transmitter is out of range for that given location, and the user should move closer to the receiver to re-establish the radio link.



1. Power switch
2. RF indicator LEDs
3. Diversity LEDs
4. AF indicator LEDs
5. Antennas



6. Mute
7. B-balanced out
8. Volume
9. Unbalanced out
10. DC Input

4. Connecting the Audio Output

The UHF receiver provides both a fixed mic level BALANCED MIC AUDIO OUTPUT XLR (7) and an adjustable line level AUX AUDIO OUTPUT ¼" JACK (9).

[Note: As when making any connection, make sure the amplifier or mixing board volume is at the minimum level before plugging in the receiver to avoid possible sound system damage.]

INSTRUMENT CONNECTION

Insert an audio cord with a 1/4" mono phone plug in the AUX AUDIO OUTPUT JACK (9) on the rear panel of the receiver. Plug the other end of the cord into an amplifier, effects, or mixing board. Adjust the AUX VOLUME CONTROL (8) on the UHF receiver clockwise until the volume level is comfortable for your application. This setting is roughly equivalent to a direct instrument cord connection.

Microphone XLR connection (using the transmitter with either a headset or lavalier microphone or the handheld microphone transmitter)

For Microphone use, either the BALANCED MIC AUDIO OUTPUT XLR (7) or the 1/4" line level AUX AUDIO OUTPUT (9) can be used. The XLR output is set at a nonadjustable microphone level, similar to hardwired mic levels. Plug an XLR connector into the XLR output connector on the rear of the unit and plug the other end into your amplifier or mixing board.

Make sure the volume is turned down when making connections. For your convenience, the XLR output level is preset at the factory and is not adjustable with the receiver volume control.

The receiver is equipped with an AF PEAK LED INDICATOR (3) which lights with a strong audio signal from the transmitter. Occasional flickering on loud inputs to the transmitter is normal. If the LED lights continuously, decrease the volume to the transmitter or overload distortion may result.

HANDHELD MICROPHONE

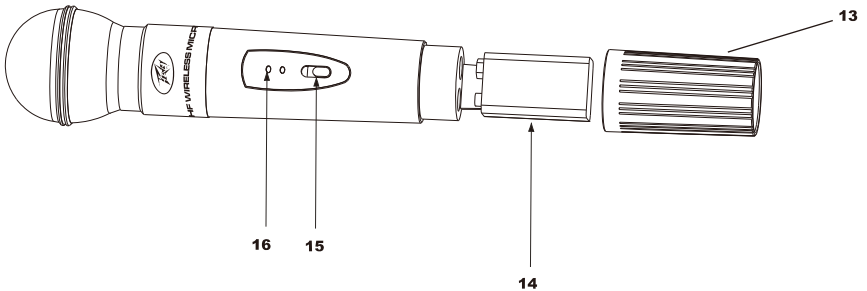
1. Unscrew the BATTERY COMPARTMENT COVER (13) and remove, exposing the BATTERY HOLDER (14). Insert a fresh 9V ALKALINE BATTERY (15), observing the correct polarity as marked, and screw the cover back on the microphone. Make sure the cover is screwed on completely. A fresh alkaline battery can last up to 10 hours in use, but in order to ensure optimum performance, it is recommended that you replace the battery after every 7-8 hours of use.

2. Turn on by the microphone sliding the OFF/STANDBY/ON SWITCH (16) to the STANDBY position (transmitter on, audio muted) or the ON position (transmitter and audio both on). The BATTERY INDICATORY LED (17) will give a single quick flash, indicating usable battery strength. In the case of a dead or low battery, the LED will either not go on at all or will stay on continuously, indicating that the battery should be replaced.

3. The microphone is now ready to use. The A and/or B DIVERSITY LED INDICATORS (2) on the receiver should now be lit, indicating a received signal from the transmitter. When ready to speak, slide the transmitter switch to the ON position. Adjust the volume of the receiver as per the Audio Output Microphone Connection section of the above receiver instructions.

[Note: Observe care in selecting P.A. volume, transmitter location and speaker placement so that acoustic feedback will be avoided.

**To preserve battery life, turn the transmitter off when not in use.*



- 13. Battery Compartment Cover
- 14. 9V Battery
- 15. On/Standby/Off Switch
- 16. Battery indicator LED

BODYPACK TRANSMITTER

1. Slide open the hinged BATTERY COMPARTMENT (18) and insert a fresh 9V ALKALINE BATTERY (19), observing the correct polarity. A fresh alkaline battery can last up to 10 hours in use, but in order to ensure optimum performance, it is recommended that the battery be replaced after 7-8 hours of use.

2. The body pack is equipped with an INPUT LEVEL CONTROL (20) for selecting the type of audio input you will be supplying to the transmitter. Select from the choice of three positions: INSTRUMENT (for guitar, bass, etc.)/HEADSET MIC/LAVALIER MIC.

3. The bodypack is equipped with a 3.5mm LOCKING JACK (21) for connecting the audio input selected. Connect either the INSTRUMENT CORD (22) or the HEADWORN MIC (23) or LAVALIER MICCORD (24) as desired,. To secure the connection, turn the slip ring on the plug clock wise to thread it on the jack. To unplug, reverse the process.

Slip the transmitter into a pocket or CLIP (28) it on to your clothes or instrument strap (if using it as an instrument transmitter). The CLIP can be rotated 90 degree if the transmitter is to be attached horizontally (instead of vertically) by loosening the screws holding the clip.

4. Turn on the bodypack transmitter by sliding the OFF/STANDBY/ON SWITCH (25) to the STANBY position (transmitter on, audio mute or the ON position (transmitter and audio both on). The BATTERY INDICATOR LED (26) will give a single quick flash, indicating usable battery strength.

In the case of a dead or low battery, the LED either will not illuminate at all or will stay on continuously, indicating that the battery should be replaced. To preserve battery life, turn the transmitter off when not in use. The transmitter is now ready to use. The A and/or B DIVERSITY LED INDICATORS (2) on the receiver should now be lit, indicating a received signal from the transmitter.

5. Instrument Use - Plug the ¼" phone plug from the INSTRUMENT CORD (22) into the instrument. As the cord to the instrument also serves as the antenna, be sure to extend it fully for maximum range. Rolling up or shortening the cord may reduce the effective operating range. When ready to play, slide the audio OFF/STANDBY/ON SWITCH

(25) to the ON position. Adjust the volume of the receiver as per the audio Output Instrument Connections section of the above UHF receiver instructions.

(Note: Levels should be adjusted with the volume control of your instrument.)

The AF PEAK LED INDICATOR (3) on the UHF receiver will light for all loud input signals. Occasional flickering on and off during use is normal, however if the LED stays on continuously, turn down the instrument volume or noticeable distortion may result.

(Note: Scratchy noises can sometimes occur when some electric guitars with dirty pots or connections are used with any wireless system. Therefore, the supplied INSTRUMENT CORD (22) has a factory installed capacitor inside the 1/4" plug. This capacitor provides first order filtering of the RF signal from the cord into the guitar and eliminates virtually all scratchy noises. Should your equipment still give you scratchy noises, we suggest these steps to eliminate them:

- a) Make sure all guitar volume and tone pots are clean and all contacts re soldered- this is very important.*
- b) A 47pf capacitor soldered across the hot to ground terminals of the guitar's volume and tone pots will provide extra filtering.*

6. Microphone Use (with either a lavalier or headset microphone)

Secure the connection from the LAVALIER (24) or HEADSET MIC CORD (23) by turning the slip ring on the plug into the transmitter clockwise to thread it on to the jack. To unplug, reverse the process.

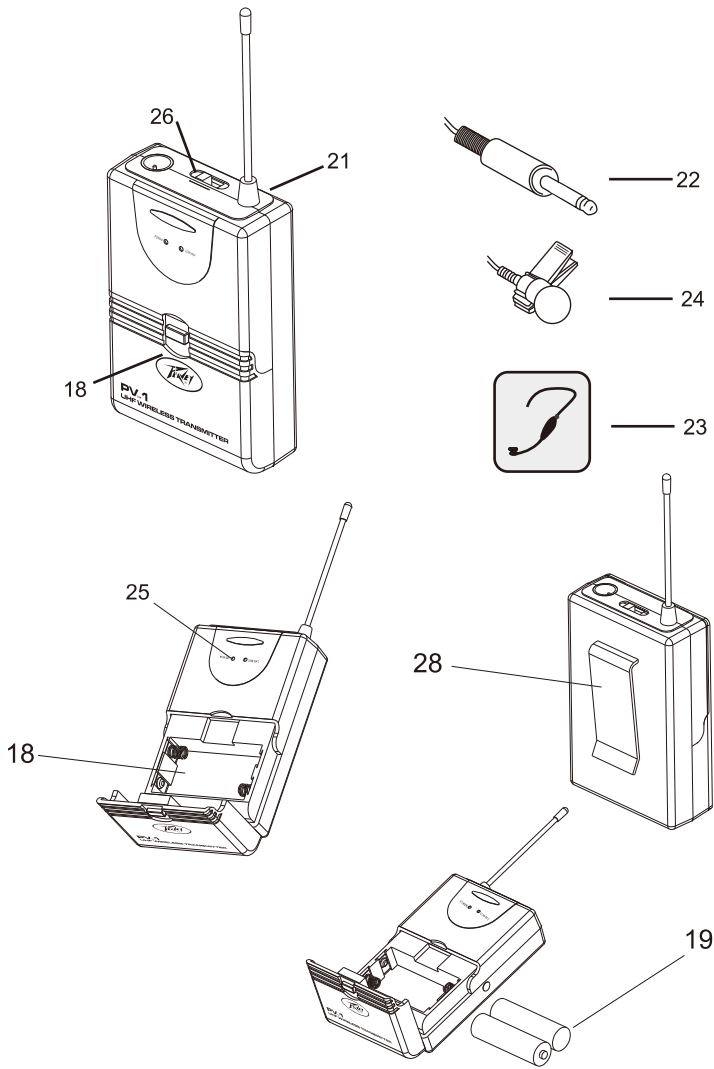
To use the lavalier mic, attach it at chest level. Do not place it too close to your mouth – a distance of about six inches is recommended. To use the headset mic, place it on your head and adjust the boom so that the mic is about one inch to the side of the front of the mouth. As the microphone cord also serves as the antenna, be sure to extend it fully. Rolling up or shortening the cord may reduce the effective operating range – keep it as straight as possible.

When ready to speak, slide the OFF/STANDBY/ON SWITCH (25) to the ON position. Adjust the volume of the receiver as per the Audio Output Microphone Connection section of the above UHF receiver instructions.

[Note: Observe care in selecting P.A. volume, transmitter location and speaker placement so that acoustic feedback (howling and screeching) will be avoided. Please also note the pickup pattern characteristics of the microphone selected. Omnidirectional mics pick up sound equally from all directions, and are prone to feedback if not used carefully. Unidirectional mics are more resistant to feedback, but pick up sound equally from all directions, and are prone to feedback if not used carefully. Unidirectional mics are more resistant to feedback, but pick up sound sources the best that are directly in front of the mic. Also, mics that are farther from the sound source, such as lavaliers, require more acoustic gain and thus are also more prone to feedback than close-source mics such as handheld or headset models that are used close to the mouth.]

For optimum performance, an INPUT LEVEL CONTROL (27) is provided. Adjust the gain by turning the control with your thumb. For lavalier mic use, it is recommended that the level be set at about 2/3 maximum. For headset mic use, it may be advisable to turn the gain down somewhat, depending on the volume levels expected. In either application, experiment and set for maximum possible gain without audible distortion on the high level peaks. *(Note: Turning down the gain too much can compromise the signal-to-noise and is not recommended.)*

The AF PEAK LED INDICATOR (3) on the UHF receiver will light for all loud input signals. Occasional flickering on and off during use is normal, but if the LED stays lit continuously, turn down the INPUT LEVEL CONTROL (27) on the transmitter, or noticeable distortions may result.



- 18. Battery Compartment
- 19. AA Batteries
- 21. 3.5mm Locking Jack
- 22. Instrument Cord

- 23. Headworn Mic
- 24. Lavalier Mic
- 25. Battery Indicator LED
- 26. Off/Standby/On Switch
- 27. Input Level Control
- 28. Clip

SPECIFICATIONS

- Frequency Response 50Hz – 15 KHz, +/- 3dB
- Dynamic Range 120dB
- Total Harmonic Distortion <0.6%
- RF Carrier Frequency Range UHF, choice of single frequencies from 906.000 to 928.000 MHz
- Frequency Stability +/- 0.005%, Crystal controlled
- Modulation FM (F3E), +/-20KHz
- Operating Range Up to 250 ft. typical (depending on site conditions); up to 500+ feet optimum line of sight

TRANSMITTERS

- Audio Inputs
- Bodypack 3.5mm locking mini-jack
- Bodypack requires 2) AA batteries
- Handheld Integrated Neodymium dynamic cartridge Controls
- OFF/STANDBY/ON, switch
- LED Indicator Unit "ON" (single flash)
- Low Battery Alert (Steady)
- RF Power Out 50mW (max. allowed by FCC)
- Harmonic & Spurious Emissions> - 50dB
- Battery 9V Alkaline
- Battery Life up to 8-10 hours
- Dimensions 4.2" x 2.5" .88"
(10.7 x 6.4 x 2.2 cm)
9.5" x 1.37"
(24.1 x 3.48 cm)
- Weight 3 oz (84g) – 7.5 oz (210g)

RECEIVER

- Reception Mode – Diversity(Dual Antenna)
- Controls – Power ON/OFF, volume control, squelch (mute) control
- Connectors – DC in, ¼" unbalanced phone jack, XLR balanced output
- LED Indicators – Power ON, Audio Peak, A/B Diversity
- Power Requirements – DC 12-15V @ 500 mA, AC/DC adapter included
- Squelch – Tone Key (32.768 KHz), external control
- Unwanted Signal Rejection 60dB image and spurious
- Dimensions 16" x 9.4" x 1.73"
- Weight 1.15 lb (0.52 kg)

Features and specifications subject to change without notice.

Peavey Electronics Corporation • 5022 Hartley Peavey Drive • Meridian • MS • 39305

(601) 483-5365 • FAX (601) 486-1278 • www.peavey.com

©2010 EX000127

