

**SHURE**<sup>®</sup>  
LEGENDARY  
PERFORMANCE™

PSM<sup>®</sup>900 Personal Monitor System

# PERSONAL MONITORING. REDEFINED.







# PSM<sup>®</sup>900 Personal Monitor System.

PSM<sup>®</sup>900 redefines personal monitoring from Shure. With exceptional audio quality, robust RF performance and category-leading features, PSM<sup>®</sup>900 is the definitive personal monitor system for demanding professional events, installations and touring.

# PSM® 900

Unshakeable Signal.  
Unmistakable Sound.



## Exceptional Audio Quality.

Enhanced Digital Stereo Encoder.  
Audio Reference Companding.



### SE425 Sound Isolating™ Earphones

Featuring Dual High Definition MicroDrivers, the SE425 uses a dedicated tweeter and woofer for an accurate and balanced sound stage. Detachable cable with formable wire enables easy replacement and secure, comfortable fit.



Left: Simple controls and Scan & Sync access Top: Bit-mapped backlit LCD Bottom: LED Status Indicators for both battery life and RF signal

### P9R Wireless Bodypack Receiver (shown actual size)

The low-profile P9R bodypack offers some of the most sophisticated features in the category, with an interface that makes setup and operation a snap.

## Key Features

### CueMode | Instantly listen to any stage mix

This patent-pending feature allows for auditioning of up to 20 different mixes on a single bodypack at the touch of a button. Simply hear what the performer hears, without the need for any additional equipment.

### Scan and Sync | Find channels easily and immediately

Scan the RF environment and assign an identified group and channel to a system over wireless IR link within seconds.

### Audio Reference Companding | Sounds like wired

Patented Shure Audio Reference Companding sets the standard for wireless sound and provides the purest PSM sound ever.

### Enhanced Digital Stereo Encoder | Clear and accurate audio

PSM 900 provides a wider stereo field with exceptional L/R separation for enhanced detail and clarity usually lost in a personal monitor system.



## Robust RF Performance.

More channels. Fewer dropouts.  
Clearest signal.



## Category-Leading Features.

CueMode. RF Mute. Scan & Sync.



*Left: RF Mute Switch prevents RF transmission during setup Top middle: Easily navigable grouped LCD menu Bottom middle: Scan & Sync vastly improves setup efficiencies Right: Input level adjustment and LED meter*



### P9T Wireless Transmitter

The P9T half-rack wireless transmitter houses advanced, industry-leading controls and an innovative grouped-menu display in a rugged, roadworthy casing.

#### Front End RF Filtering | Fewer dropouts, higher signal quality

The same advanced filtering found in industry-leading Shure UHF-R® wireless systems significantly reduces RF interference for a cleaner, stronger RF signal, fewer dropouts, and less audible artifacts.

#### Exceptional Transmitter Linearity | Up to 20 compatible channels

The P9T transmitter vastly reduces frequency intermodulation, allowing up to 20 compatible channels to operate simultaneously on one frequency band.

#### RF Mute Switch | The “do not disturb” RF button

Ideal for festivals and multi-venue events, the front-panel RF mute switch on the P9T transmitter enables or disables RF transmission, allowing setup operation without disrupting the RF environment.

#### Active RF Gain Control | Avoid RF signal overload

RF signal overload can cause dropouts if the receiver comes too close to the transmitting antenna. Active RF gain control detects any spikes in RF signal and seamlessly reduces RF sensitivity to protect against RF overload.

# Technical Specifications

Note: All specifications are subject to change.

## PSM®900 System

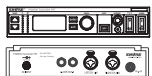
RF Carrier Range	470–952 MHz (regionally dependent)
Compatible Frequencies	20 per band
Tuning Bandwidth	36 MHz – 40 MHz (regionally dependent)
Operating Range (environment dependent)	90m (300ft)
Audio Frequency Response	35Hz – 15kHz
Stereo Separation	60 dB
Signal-To-Noise Ratio (A-Weighted)	90 dB (typical)
Total Harmonic Distortion (ref. ±34 kHz deviation @1 kHz)	<0.8% (typical)
Companding	Patented Shure Audio Reference Companding
Spurious Rejection (ref. 12 dB SINAD)	>80 dB (typical)
Frequency Stability	±2.5 ppm
MPX Pilot Tone	19 kHz (±0.3 kHz)
Modulation	FM, MPX Stereo (±34 kHz deviation, nominal)
Operating Temperature	-18°C – +57°C

## P9R Bodypack Receiver



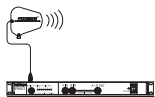
Front-End RF Filtering	-3 dB point 30.5 MHz from center frequency
Active RF Gain Control	31 dB (adjusts RF sensitivity to provide more RF dynamic range)
RF Sensitivity (20 dB SINAD)	2.2 µV
Squelch Threshold (±3 dB SINAD)	22 dB SINAD
Adjacent Channel Rejection	>70 dB
Intermodulation Attenuation	>70 dB
Blocking	>80 dB
Image Rejection	>100 dB
Audio Output Power (1kHz @ <1% distortion, peak power, @32Ω)	100 mW
Minimum Load Impedance	9.5 Ω
High Boost	Selectable: +3 dB, +6 dB @ 10 kHz
Battery Life	5–7 hours (continuous use)
Net Weight	200 g with batteries
Dimensions	83mm x 65mm x 22mm

## P9T Transmitter



RF Output Power	selectable: 10, 50, 100 mW (+20 dBm) (regionally dependent)
RF Output Impedance	50 Ω (typical)
Net Weight	850 g
Dimensions	197 mm x 166 mm x 42 mm
Power Requirement (RF on, 100 mW power mode, no audio)	415 mA, typical

## Antenna Combiner Accessories



PA421SWB	4 to 1 antenna combiner and power distribution for PSM systems
PA821SWB	8 to 1 antenna combiner for PSM systems

## PSM® Personal Monitor Systems also available



### PSM®200 Get In Ear From Here

Looking for an affordable personal monitor alternative to floor wedges? Meet PSM 200. This full-featured system features versatile components designed to grow with your needs.



### PSM®400 Versatile Systems for Working Musicians

Designed for performers looking for clear, consistent personal monitor mixes. Every day and night – rehearsal through performance.

**SHURE®**  
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