



SHURE[®]
LEGENDARY
PERFORMANCE™

PSM1000
In-Ear Personal Monitoring Systems

PSM1000 In-Ear Personal Systems

THE SOUND OF CONFIDENCE.



PSM 900 and PSM 1000 In-Ear Personal Monitoring Systems

With exceptional audio quality and features, the PSM 900 and PSM 1000 In-Ear Personal Monitoring Systems from Shure are more reliable and easier to set-up than many other systems in their class. The PSM 900 delivers a robust RF performance and with the two antenna diversity bodypack receiver of the PSM 1000 system the best RF performance is guaranteed. The full network integration of the PSM 1000 makes setup and control highly efficient. For the most demanding events, touring and installation.



PSM 900 In-Ear Personal Monitoring System

P9RA Wireless Bodypack Receiver



P9RA Wireless Bodypack Receiver

The low-profile, full-metal P9RA bodypack offers some of the most sophisticated features in the category, with an interface that makes setup and operation simple and intuitive. Detachable antenna allows for easy field replacement and flexibility. Switchable gain setting provides an extended battery life. It can alternatively handle Shure rechargeable Li-Ion batteries.



Sound Isolating™ Earphones

The PSM 900 In-Ear Personal Monitoring System works with any Shure Sound Isolating Earphones, for example the SE425. Featuring Dual High-Definition MicroDrivers, it uses a dedicated tweeter and woofer for an accurate and balanced sound stage. Detachable, lockable 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 and RF status

Key Features PSM 900 and PSM 1000

CueMode* – Instantly listen to any stage mix

This 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.

Audio Reference Companding – Sounds like wired

Patented Shure Audio Reference Companding provides the purest in-ear sound.

Group Scan and Sync – Find channels easily and immediately

Scan the RF environment and identify the group with the most free frequencies. By using the sync-function, these frequencies can be transferred to the transmitter via IR within seconds.

Rechargeability – Low operating costs and extended battery life

The P9RA and the P10R work with an 8-Up battery charger (SBC800). This compact unit charges eight Shure SB900A batteries to full capacity within two hours, with status LEDs to indicate power levels.

PSM 900 In-Ear Personal Monitoring System

P9T Wireless Transmitter



P9T Wireless Transmitter

The P9T half-rack wireless transmitter houses advanced controls such as fast level adjustment, dedicated sync button, RF mute switch and an innovative grouped-menu display in a rugged, roadworthy housing.



- Left:** RF mute switch prevents disturbance of other systems that are in progress during setup
- Top middle:** Easily navigable grouped LCD menu
- Bottom middle:** Scan & Sync vastly improves setup efficiency
- Right:** Input level adjustment and LED metre

Key Features PSM 900 and PSM 1000

Front End RF Filtering – Higher signal quality

The same advanced filtering found in industry-leading 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 40 compatible channels

The P9T and P10T transmitter vastly reduce frequency intermodulation, allowing up to 20 compatible channels for the P9T and 40 compatible channels for the P10T to operate simultaneously in 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 and P10T transmitter enable or disable 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.

PSM 1000 In-Ear Personal Monitoring System

P10R Wireless Bodypack



P10R Wireless Bodypack Receiver

The P10R full-metal bodypack offers the same low-profile design as the P9RA bodypack receiver plus two antenna diversity reception for the best in audio and RF performance. Additional menu features enable highly efficient setup and control. Switchable gain setting provides an extended battery life. It can alternatively handle Shure rechargeable Li-Ion batteries.

Additional Key Features PSM 1000

Bodypack Receiver with Two Antenna Diversity – The best in audio and RF performance

The P10R bodypack employs two antenna diversity reception, providing rock-solid coverage from two antennas for the best in audio and RF performance.

Backwards Compatibility – Reduced investment costs

The PSM 1000 system is audio and frequency sync compatible with PSM 900 in the same range to facilitate streamlined inventory management.

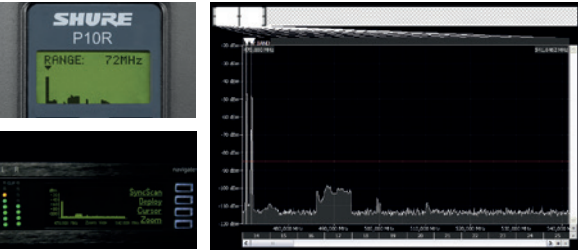
Full Range Scan & Sync Capabilities – Most efficient setup and control

Streamlining pre-show setup tasks, the P10R bodypack receiver scans the full range and IR syncs scan data to the P10T transmitter. The P10T then assigns compatible frequencies to additional transmitters over the network or transfers scan data to Wireless Workbench 6.0.



Sound Isolating™ Earphones

The PSM 1000 In-Ear Personal Monitoring System works with any Shure Sound Isolating Earphones, for example the SE535. Featuring Triple High-Definition MicroDrivers, it uses a single tweeter and dual woofers, for spacious sound with rich bass. Detachable, lockable cable with formable wire enables easy replacement and secure, comfortable fit.



- Left Top:** Full Range Scan provides most accurate RF conditions
- Left Bottom:** Scan data in transmitter after successful spectrum synchronisation
- Right:** Wireless Workbench 6.0 result of scan data

PSM 1000 In-Ear Personal Monitoring System

P10T Wireless Transmitter



P10T Wireless Transmitter

The P10T full-rack, dual channel wireless transmitter houses a familiar, user-friendly interface front panel control, two Ethernet ports for cascaded network connectivity with full Wireless Workbench 6.0 integration, and an internal power supply in a professional touring grade chassis construction.



- Left:
- Easily navigable grouped LCD menu
- Middle:
- RF mute switch and input level LED meter
- Right:
- Fast monitoring option for both channels including LED clip indicator

Additional Key Features PSM 1000

Ethernet Port for Shure Network Connectivity – Most efficient setup and control

PSM transmitters can be controlled either by Wireless Workbench 6.0 software, an Axient Spectrum Manager or among themselves via single Ethernet port connection.

Internal Power Supply – No more external power supply unit

Efficient, universal power supply with industry standard IEC connectors and daisy-chain capability for comfortable, easy setup and handling.

Up to 80 MHz Tuning Bandwidth – Highest RF spectrum flexibility

Up to 80 MHz tuning bandwidth and a frequency choice of seven band versions provide users ultimate flexibility and performance in today’s crowded and unpredictable RF environments.

Technical Specification

	PSM 900 System	PSM 1000 System
RF Carrier Range	470 – 952 MHz (regionally dependent)	470 – 952 MHz (regionally dependent)
Compatible Frequencies	Up to 20 per band	Up to 40 per band
Tuning Bandwidth	36 MHz – 40 MHz (regionally dependent)	72 - 80 MHz (regionally dependent)
Operating Range (environment dependent)	90 m	90 m
Audio Frequency Response	35 Hz – 15 kHz	35 Hz – 15 kHz
Signal-To-Noise Ratio (A-Weighted)	90 dB (typical)	90 dB (typical)
Total Harmonic Distortion (ref. ±34 kHz deviation @1 kHz)	<0.5% (typical)	<0.5% (typical)
Companding	Patented Shure Audio Reference Companding	Patented Shure Audio Reference Companding
Spurious Rejection (ref. 12 dB SINAD)	>80 dB (typical)	>80 dB (typical)
Frequency Stability	±2.5 ppm	±2.5 ppm
MPX Pilot Tone	19 kHz (±0.3 kHz)	19 kHz (±0.3 kHz)
Modulation	FM, MPX Stereo (±34 kHz deviation, nominal)	FM, MPX Stereo (±34 kHz deviation, nominal)
Operating Temperature	-18°C – +57°C	-18°C – +57°C
	P9RA Bodypack Receiver	P10R Bodypack Receiver
Front-End RF Filtering	–3 dB point 30.5 MHz from centre frequency	–3 dB point 30.5 MHz from centre frequency
Active RF Gain Control	31 dB (adjusts RF sensitivity to provide more RF dynamic range)	31 dB (adjusts RF sensitivity to provide more RF dynamic range)
RF Sensitivity (20 dB SINAD)	2.2 µV	2.2 µV
Squelch Threshold (±3 dB SINAD)	22 dB SINAD	22 dB SINAD
Adjacent Channel Rejection	>70 dB	>70 dB
Intermodulation Attenuation	>50 dB	>50 dB
Blocking	>80 dB	>80 dB
Image Rejection	>90 dB	>90 dB
Audio Output Power (1 kHz @ <1% distortion, peak power, @ 32 Ω)	100 mW	100 mW
Minimum Load Impedance	9.5 Ω	9.5 Ω
High Boost	Selectable: +2 dB, +4 dB @ 10 kHz	Selectable: + 2 dB, +4 dB @ 10 kHz
Battery Life	4 - 6 hours (continous use with Alkaline batteries)	4 - 6 hours (continous use with Alkaline batteries)
Net Weight	200 g with batteries	201 g with batteries
Dimensions	85 mm x 66 mm x 23 mm	85 mm x 66 mm x 23 mm
	P9T Transmitter	P10T Transmitter
RF Output Power	Selectable: 10, 50, 100 mW (regionally dependent)	Selectable: 10, 50, 100 mW (regionally dependent)
RF Output Impedance	50 Ω (typical)	50 Ω (typical)
Net Weight	850 g	4700 g
Dimensions	197 mm x 166 mm x 42 mm	483 mm x 363 mm x 44 mm
Power Requirement (RF on, 100 mW power mode, no audio)	415 mA, typical	Max. 0.5 A, typical Power pass through: max. 5 A, typical
	Accessories	Accessories
PA421B	4 to 1 antenna combiner and power distribution for PSM systems	4 to 1 antenna combiner and power distribution for PSM systems
PA805SWB	Passive directional antenna	Passive directional antenna
PA821B	8 to 1 antenna combiner for PSM systems	8 to 1 antenna combiner for PSM systems
SBC800	8-Up battery charger	8-Up battery charger
SB900A	Rechargeable battery	Rechargeable battery
SB900A-8	8-Pack rechargeable batteries	8-Pack rechargeable batteries

PSM In-Ear Personal Monitoring System also available

PSM 200

The entry point to Shure In-Ear Personal Monitoring Systems

- Dual-function bodypack receiver (P2R)
- Wireless transmixer (P2T)
- Professional Sound Isolating Earphones

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice. Usage rights of the photography in this document expire in January 2013.



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