

PSM 1000 In-Ear Personal Monitoring System

The PSM 1000 In-Ear Personal Monitoring System from Shure builds on the success of the PSM 900 that set the bar for In-Ear Monitoring. The dual channel, full rack PSM 1000 system offers all functions of PSM 900, like patent-pending CueMode etc. plus additional, new sophisticated features. It is designed to tightly integrate with Shure Wireless Workbench 6.0 software for highly efficient setup and control. Plus with a two antenna diversity, low-profile bodypack receiver, PSM 1000 provides the best in audio and RF performance. For the most demanding events, touring and installation.

PRODUCT HIGHLIGHTS

Full Rack, Dual Channel Transmitter

Internal Power Supply

Ethernet Port for Shure Network Integration with Wireless Workbench 6.0

Full-metal two Antenna Diversity Bodypack Receiver

Rechargeability

Up to 80 MHz Tuning Bandwidth

Up to 40 compatible channels per band version

Full Range Scan

Patent-Pending CueMode

APPLICATIONS

Touring Sound

Broadcast

Theater

House of Worship



System Specifications

RF Carrier Range	470 – 952 MHz (regionally dependent)
Compatible Frequencies	Up to 40 (per band)
Tuning Bandwidth	72 MHz - 80 MHz (regionally dependent)
Operating Range (environment dependent)	90 m
Audio Frequency Response	35 Hz – 15 kHz
Signal-To-Noise Ratio (A-Weighted)	90 dB (typical)
Total Harmonic Distortion (ref. ±34 kHz deviation @1 kHz)	<0.5% (typical)
Comanding	Patented Shure Audio Reference Comanding
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

Furnished Accessories

P10R Antenna	
UA700	470 – 542 MHz
UA720	596 – 692 MHz
UA730	692 – 830 MHz
UA740	830 – 952 MHz
P10T Antenna	
UA820G	470 – 530 MHz
UA820G7	500 – 560 MHz
UA820H4	518 – 578 MHz
UA820J	578 – 638 MHz
UA820L3	638 – 698 MHz
UA820B	690 – 746 MHz
UA820P8	710 – 790 MHz
UA820Q	740 – 814 MHz
UA820A	774 – 865 MHz
UA820X	900 – 952 MHz
95A9023	Front Mount Antenna Cable
95A2313	Zipper Bag
95A8247	IEC Power Cable EU
95A8713	IEC Power Cable UK
95B8678	IEC Extension Cable
95B15103	Ethernet Network Cable
85G9098	Wireless Workbench 6.0
95A2313	Receiver Carrying Bag
90VL1371	Rackmount Hardware Kit

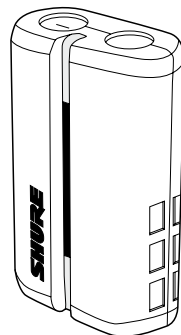
Frequency Range

Band	Range	RF Output Power*
G10	470 - 542 MHz	10 / 50 / 100 mW
G10E	470 - 542 MHz	10 / 50 / 100 mW
J8	554 - 626 MHz	10 / 50 / 100 mW
J8E	554 - 626 MHz	10 / 50 / 100 mW
K10E	596 - 668 MHz	10 / 50 / 100 mW
L8	626 - 698 MHz	10 / 50 / 100 mW
L8E	626 - 698 MHz	10 / 50 / 100 mW
L9E	670 - 742 MHz	10 / 50 / 100 mW
L10	670 - 742 MHz	10 mW
P8	710 - 790 MHz	10 / 50 / 100 mW
Q21	750 - 787 MHz	10 / 50 / 100 mW
Q22E	750 - 822 MHz	10 / 50 / 100 mW
Q23	750 - 822 MHz	10 mW
R26	794 - 806 MHz	10 mW
R27	794 - 806 MHz	10 / 50 mW
A24	779 - 788, 797 - 806 MHz	10 mW
X1	944 - 952 MHz	10 / 50 / 100 mW

*Regionally dependent

Antennas, Combiners and Accessories

PA821SWB	8-to-1 antenna combiner for better RF performance
PA421SWB	4-to-1 antenna combiner with power distribution to 4 transmitters (better RF performance and eliminates need for external power supply)
PA805SWB Passive Directional Antenna	
HA-8089	Helical Antenna (470 – 900 MHz)
HA-8241	Helical Antenna (944 – 952 MHz)
UA860SWB Passive Omnidirectional Antenna	
UA802	Coaxial Cable, BNC, RG58C/U type, 50 Ω, 0.6 m length
UA806	Coaxial Cable, BNC, RG58C/U type, 50 Ω, 2 m length
UA825	Coaxial Cable, BNC, RG8X/U type, 50 Ω, 7.5 m length
UA850	Coaxial Cable, BNC, RG8X/U type, 50 Ω, 15 m length
UA8100	Coaxial Cable, BNC, RG8X/U type, 50 Ω, 30 m length
SBC800	8-Up Battery Charger
SB900	Rechargeable Battery
SB900-8	8-Pack Rechargeable Battery



SB900 Rechargeable Battery

The P10R bodypack is compatible with the SB900 lithium-ion rechargeable battery, which provides extended usage time of up to 10 hours and precise tracking of remaining life and charge cycle details.

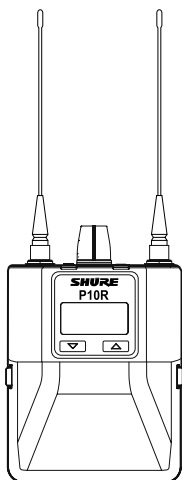
SBC800 Recharging Station

This compact unit charges up to 8 SB900 batteries to full capacity within 2 hours, with status LEDs to indicate power levels. SB900 batteries fit securely in the charger for easy, efficient storage and transport.

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Component Specifications

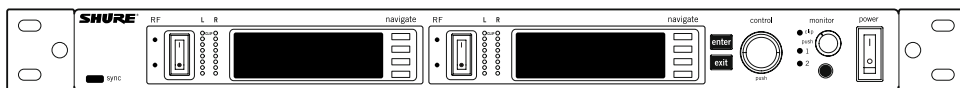
P10R Wireless Bodypack Receiver



The P10R is a low profile, diversity bodypack receiver for use with the PSM 1000 Wireless Personal Monitor System. It offers premium features like full bandwidth RF scan and Automatic RF Gain Control for unparalleled signal stability and channel availability, all packed in the slimmest form factor available. Patent-pending CueMode allows monitoring of different stage mixes and storing of up to 20 separate channels from one bodypack for quick and easy mix reference. Optional advanced rechargeability eliminates the need for disposable batteries and provides extended usage times with reliable battery life.

Front-End RF Filtering	-3 dB point 30.5 MHz from center frequency
Active RF Gain Control	31 dB (Adjusts sensitivity to provide more RF dynamic range)
RF Sensitivity (20 dB SINAD)	2.2 μ V
Squelch Threshold (± 3 dB SINAD)	22 dB SINAD
Adjacent Channel Rejection	>70 dB
Intermodulation Attenuation	>50 dB
Blocking	>80 dB
Image Rejection	>90 dB
Audio Output Power (1kHz @ <1% distortion, peak power, @32 Ω)	100 mW
Minimum Load Impedance	9.5 Ω
High Boost	Selectable: +2 dB / +4 dB @ 10 kHz
Volume Limiter	Selectable: 3 – 9 (Reduces maximum output level. Selected value corresponds to volume knob increment.)
Battery Life	4 - 6 hours (continuous use with Alkaline batteries)
Net Weight	201 g with batteries
Dimensions	85 mm x 66 mm x 23 mm

P10T Wireless Transmitter



The P10T is a networkable, full-rack, dual channel wireless transmitter used in conjunction with the P10R Bodypack receiver as part of the PSM 1000 Wireless Personal Monitor System. It offers a up to 80 MHz wide tuning bandwidth, networked remote control via Wireless Workbench software, advanced rechargeability options, and PSM 900 backwards compatibility. Connections include balanced $\frac{1}{4}$ " and XLR, loop out, dual Ethernet ports, and headphone monitor out. Comes with front or back mountable antennas, and power and Ethernet jumper cables.

RF Output Power	Selectable: 10 / 50 / 100 mW (regionally dependent)
RF Output Impedance	50 Ω (typical)
Net Weight	4700 g
Dimensions	483 mm x 363 mm x 44 mm
Power Requirement (RF on, 100 mW power mode, no audio)	0.5 A max., typical Power passthrough: 5 A max., typical
Audio Input	
Connector Type	Combination XLR and 6.35 mm (1/4") TRS
Polarity	XLR: Non-inverting (pin 2 positive in respect to pin 3) 6.35 mm (1/4") TRS: Tip positive in respect to ring
Configuration	Electronically balanced
Impedance	70.2 k Ω (actual)
Nominal Input Level	Switchable: +4 dBu / -10 dBV
Maximum Input Level	+ 4 dBu: +29.2 dBu - 10 dBV: +12.2 dBu
Pin Assignments	XLR: 1 = ground, 2 = hot, 3 = cold 6.35 mm (1/4") TRS: Tip=hot, Ring=cold, Sleeve=ground
Phantom Power Protection	Up to 60 V DC
Audio Output	
Connector Type	6.35 mm (1/4") TRS
Configuration	Electronically balanced
Impedance	Connected directly to inputs

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