The PSM 1000 Personal Monitor System from Shure brings personal monitoring to its most advanced level yet.

The full-rack, dual-channel, networkable transmitter is ideally suited for the demands of professional touring and installation applications, and the diversity bodpack receivers deliver pristine RF signal and audio quality. Networkability over Ethernet connection enables remote control of transmitter functions and comprehensive frequency coordination via Wireless Workbench® software.
PSM® 1000 System Specifications

- **RF Carrier Range**: 470–952 MHz (regionally dependent)
- **Compatible Frequencies**: 39 per band
- **Tuning Bandwidth**: 72 MHz - 80 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. ±3 kHz deviation @1 kHz): <0.5% (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 (±3 kHz deviation, nominal)
- **Operating Temperature**: -18 to +57 °C

### Frequency Range

<table>
<thead>
<tr>
<th>Band</th>
<th>Range</th>
<th>RF Output Power***</th>
</tr>
</thead>
<tbody>
<tr>
<td>U10</td>
<td>470-542 MHz</td>
<td>10 / 50 / 100 mW</td>
</tr>
<tr>
<td>U11</td>
<td>461-542 MHz</td>
<td>6 / 10 mW</td>
</tr>
<tr>
<td>G62</td>
<td>510-530 MHz</td>
<td>10 mW</td>
</tr>
<tr>
<td>H8Z</td>
<td>518-582 MHz</td>
<td>10 / 50 / 100 mW</td>
</tr>
<tr>
<td>J8</td>
<td>554-626 MHz</td>
<td>6 / 10 mW</td>
</tr>
<tr>
<td>J10E</td>
<td>596-668 MHz</td>
<td>10 / 50 mW</td>
</tr>
<tr>
<td>L8E</td>
<td>626-698 MHz</td>
<td>10 / 50 / 100 mW</td>
</tr>
<tr>
<td>L8J</td>
<td>626-698 MHz</td>
<td>6 / 10 mW</td>
</tr>
<tr>
<td>L9E</td>
<td>670-742 MHz</td>
<td>10 / 50 mW</td>
</tr>
<tr>
<td>L11J</td>
<td>670-714 MHz</td>
<td>6 / 10 mW</td>
</tr>
<tr>
<td>PB</td>
<td>710-790 MHz</td>
<td>10 / 50 mW</td>
</tr>
<tr>
<td>G21</td>
<td>710-787 MHz</td>
<td>10 / 50 mW</td>
</tr>
<tr>
<td>G22E</td>
<td>750-822 MHz</td>
<td>10 / 50 mW</td>
</tr>
<tr>
<td>P27</td>
<td>794-806 MHz</td>
<td>10 / 50 mW</td>
</tr>
<tr>
<td>X1</td>
<td>944-952 MHz</td>
<td>10 / 50 / 100 mW</td>
</tr>
<tr>
<td>X7</td>
<td>925-937.5 MHz</td>
<td>10 mW</td>
</tr>
</tbody>
</table>

### Furnished Accessories

- **P10R Antenna**
  - UA700 470–542 MHz
  - UA710 540–626 MHz
  - UA720 596–692 MHz
  - UA730 692–830 MHz
  - UA740 830–952 MHz
- **P10T Antenna**
  - UA820G10 470–542 MHz
  - UA820H8 518–582 MHz
  - UA820J8 554–626 MHz
  - UA820K1 596–668 MHz
  - UA820L8 626–698 MHz
  - UA820LCH 670–742 MHz
  - UA820P8 710–790 MHz
  - UA820Q2 750–822 MHz
  - UA820X 944–952 MHz
- **95A9023 Front Mount Antenna Cable**
- **95A2313 Zipper Bag**
- **53B8443 Link Bar**
- **90AR8100 Hardware Kit (Rackmounting Screws)**
- **90B8977 Bumper Kit**

### Antennas, Combiners and Accessories

- **EAC-IFB**: Coiled IFB Earphone Cable for Shure Earphones
- **PA821B**: 8-to-1 antenna combiner for better RF performance
- **PA421B**: 4-to-1 antenna combiner with power distribution to 4 transmitters (better RF performance and eliminates need for external power supply)
- **PA8025WB**: Passive Directional Antenna
- **PA301**: Protective Cover for PIRA and P10R body pack receivers
- **PA-8089**: Helical Antenna (470-900 MHz)
- **PA-8891**: Litzed Helical Antenna (470/900 MHz)
- **PA-8824**: Helical Antenna (844-952 MHz)
- **UA8025WB**: Passive Omnidirectional Antenna
- **UA802**: Coaxial Cable, BNC-BNC, RG58C/U type, 50 Ohm, 2 ft length (0.6 m)
- **UA806**: Coaxial Cable, BNC-BNC, RG8C/U type, 50 Ohm, 6 ft length (2 m)
- **UA825**: Coaxial Cable, BNC-BNC, RG8X/U type, 50 Ohm, 25 ft length (7.5 m)
- **UA850**: Coaxial Cable, BNC-BNC, RG8X/U type, 50 Ohm, 50 ft length (15 m)
- **UA8100**: Coaxial Cable, BNC-BNC, RG8X/U type, 50 Ohm, 100 ft length (30 m)

### Rechargeable Power Management

- **SB900A Rechargeable Battery**
The P10R+ bodypack is compatible with the SB900A, a lithium-ion rechargeable battery, providing up to 10 hours of continuous use and precise tracking of remaining life and charge cycle details.

- **SBC800 Recharging Station**
Charges up to eight SB900A batteries to full capacity within three hours, with status LEDs to indicate power levels. SB900A batteries fit securely in the charger for easy, efficient storage and transport.

- **SBC200 Dual Docking Recharging Station**
This compact and portable unit charges two SB900A batteries. Up to four SBC200s can be chained together to run off one power supply.

- **SBC10-100 Single Battery Recharging Station**
The SBC10-100 charges one battery at a time and can be powered from either A/C power sources or USB ports.
Component Specifications

**P10R+**
Wireless Bodypack Receiver

- **Tri-band RF Filtering**: -3 dB at 30.5 MHz from the center frequency of each band
- **Active RF Gain Control**: 31 dB (adjusts RF sensitivity to provide more RF dynamic range)
- **RF Sensitivity**: 2.2 μV (20 dB SINAD)
- **Squelch Threshold**: 22 dB SINAD (±3 dB), default setting
- **Adjacent Channel Rejection**: >70 dB
- **Intermodulation Attenuation**: >70 dB
- **Blocking**: >80 dB
- **Image Rejection**: >90 dB

**Audio Output Power**
- 100 mW per output
- Output Impedance: 4 Ω

**4-Band Parametric EQ**
- Low Shelf: Selectable Gain: ±2 dB, ±4 dB, ±6 dB @100 Hz
- Low Mid: Selectable Gain: ±2 dB, ±4 dB, ±6 dB @160 Hz, 250 Hz, 400 Hz, 500 Hz, 630 Hz
- High Mid: Selectable Gain: ±2 dB, ±4 dB, ±6 dB @1 kHz, 1.6 kHz, 2.5 kHz, 4 kHz, 6.3 kHz
- High Shelf: Selectable Gain: ±2 dB, ±4 dB, ±6 dB @10 kHz

**Volume Limiter**
- Selectable: 0 dB to -48 dB in 3 dB steps

**Battery Life**
- 4–6 hours (continuous use) with AA batteries

**Dimensions**
- 99 mm x 66 mm x 23 mm (3.9 in. x 2.6 in. x 0.9 in.) H x W x D

**Power Requirement**
- Input: 100-240V AC, 50/60 Hz, 0.5A max (5.5 max outlet loaded)
- Output: 100-240V AC, 5A max, unswitched

**Audio Input**
- **Connector Type**: Combination XLR and 6.35 mm (1/4") TRS
- **Polarity**: XLR: Non-inverting (pin 2 positive with respect to pin 3)
- 6.35 mm (1/4") TRS: Tip positive with respect to ring
- **Configuration**: Electronically balanced
- **Impedance**: 70.2 kΩ (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

**Power Output**
- Selectable: 10, 50, 100 mW (regionally dependent)
- **Net Weight**: 4.7 Kg (10.4 lb)

**Dimensions**
- 44 X 483 X 343 mm

**P10T**
Dual Wireless Transmitter

- **Tri-band RF Filtering**: -3 dB at 30.5 MHz from the center frequency of each band
- **Active RF Gain Control**: 31 dB (adjusts RF sensitivity to provide more RF dynamic range)
- **RF Sensitivity**: 2.2 μV (20 dB SINAD)
- **Squelch Threshold**: 22 dB SINAD (±3 dB), default setting
- **Adjacent Channel Rejection**: >70 dB
- **Intermodulation Attenuation**: >70 dB
- **Blocking**: >80 dB
- **Image Rejection**: >90 dB

**Audio Output Power**
- 100 mW per output
- Output Impedance: 4 Ω

**4-Band Parametric EQ**
- Low Shelf: Selectable Gain: ±2 dB, ±4 dB, ±6 dB @100 Hz
- Low Mid: Selectable Gain: ±2 dB, ±4 dB, ±6 dB @160 Hz, 250 Hz, 400 Hz, 500 Hz, 630 Hz
- High Mid: Selectable Gain: ±2 dB, ±4 dB, ±6 dB @1 kHz, 1.6 kHz, 2.5 kHz, 4 kHz, 6.3 kHz
- High Shelf: Selectable Gain: ±2 dB, ±4 dB, ±6 dB @10 kHz

**Volume Limiter**
- Selectable: 0 dB to -48 dB in 3 dB steps

**Battery Life**
- 4–6 hours (continuous use) with AA batteries

**Dimensions**
- 99 mm x 66 mm x 23 mm (3.9 in. x 2.6 in. x 0.9 in.) H x W x D

**Power Requirement**
- Input: 100-240V AC, 50/60 Hz, 0.5A max (5.5 max outlet loaded)
- Output: 100-240V AC, 5A max, unswitched

**Audio Input**
- **Connector Type**: Combination XLR and 6.35 mm (1/4") TRS
- **Polarity**: XLR: Non-inverting (pin 2 positive with respect to pin 3)
- 6.35 mm (1/4") TRS: Tip positive with respect to ring
- **Configuration**: Electronically balanced
- **Impedance**: 70.2 kΩ (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

**Power Output**
- Selectable: 10, 50, 100 mW (regionally dependent)
- **Net Weight**: 4.7 Kg (10.4 lb)

**Dimensions**
- 44 X 483 X 343 mm