## Technical Specifications

<table>
<thead>
<tr>
<th></th>
<th>PSM® 900 System</th>
<th>PSM® 1000 System</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Carrier Range</td>
<td>470 – 952 MHz (region-dependent)</td>
<td>470 – 952 MHz (region-dependent)</td>
</tr>
<tr>
<td>Compatible Frequencies Per Band</td>
<td>20</td>
<td>39</td>
</tr>
<tr>
<td>Tuning Bandwidth</td>
<td>36 – 40 MHz (region-dependent)</td>
<td>72 – 80 MHz (region-dependent)</td>
</tr>
<tr>
<td>Operating Range</td>
<td>90 m / 300 ft (environment-dependent)</td>
<td>90 m / 300 ft (environment-dependent)</td>
</tr>
<tr>
<td>Audio Frequency Response</td>
<td>35 Hz – 15 kHz ± 1 dB</td>
<td>35 Hz – 15 kHz ± 1 dB</td>
</tr>
<tr>
<td>Signal-To-Noise Ratio</td>
<td>90 dB (A-Weighted)</td>
<td>90 dB (A-Weighted)</td>
</tr>
<tr>
<td>Total Harmonic Distortion (at 1 kHz)</td>
<td>&lt;0.5% typical (ref. ±34 kHz Deviation @ 1 kHz)</td>
<td>&lt;0.5% typical (ref. ±34 kHz Deviation @ 1 kHz)</td>
</tr>
<tr>
<td>Stereo Encoding/Decoding</td>
<td>Digital Walsh Encoding</td>
<td>Digital Walsh Encoding</td>
</tr>
<tr>
<td>Companding</td>
<td>Patented Audio Reference Companding</td>
<td>Patented Audio Reference Companding</td>
</tr>
<tr>
<td>Spurious Rejection</td>
<td>&gt;80 dB typical (referenced to 12 dB SINAD)</td>
<td>&gt;80 dB typical (referenced to 12 dB SINAD)</td>
</tr>
<tr>
<td>Frequency Stability</td>
<td>±2.5 ppm typical</td>
<td>±2.5 ppm typical</td>
</tr>
<tr>
<td>MPX Pilot Tone</td>
<td>19 kHz (±0.3 kHz)</td>
<td>19 kHz (±0.3 kHz)</td>
</tr>
<tr>
<td>Modulation</td>
<td>FM*, MPX Stereo (*ref. ±34 kHz deviation @ 1 kHz)</td>
<td>FM*, MPX Stereo (*ref. ±34 kHz deviation @ 1 kHz)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-18°C to +57°C</td>
<td>-18°C to +57°C</td>
</tr>
<tr>
<td>Front-End RF Filtering</td>
<td>Dual Stage 3-Pole Chebyshev</td>
<td>Tri-Band, Dual Stage 3-Pole Chebyshev</td>
</tr>
<tr>
<td>Active RF Gain Control</td>
<td>Adjusts Receiver RF Sensitivity to provide 31 dB more RF Dynamic Range</td>
<td>Adjusts Receiver RF Sensitivity to provide 31 dB more RF Dynamic Range</td>
</tr>
<tr>
<td>Squelch Threshold</td>
<td>22 ± 3 dB SINAD</td>
<td>22 dB SINAD (±3 dB) default setting</td>
</tr>
<tr>
<td>RF Sensitivity</td>
<td>2.2 uV at 20 dB SINAD</td>
<td>2.2 uV at 20 dB SINAD</td>
</tr>
<tr>
<td>Image Rejection</td>
<td>&gt;90 dB typical</td>
<td>&gt;90 dB typical</td>
</tr>
<tr>
<td>Adjacent Channel Rejection</td>
<td>&gt;70 dB</td>
<td>&gt;70 dB</td>
</tr>
<tr>
<td>Intermodulation Attenuation</td>
<td>&gt;50 dB (referenced to 30 dB SINAD with -80 dBm on channel signal at 45 kHz deviation of a 1 kHz tone) &gt;70 dB for 12 dB SINAD</td>
<td>&gt;50 dB (referenced to 30 dB SINAD with -80 dBm on channel signal at 45 kHz deviation of a 1 kHz tone) &gt;70 dB for 12 dB SINAD</td>
</tr>
<tr>
<td>Blocking</td>
<td>&gt;80 dB</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>Audio Output Power</td>
<td>100 mW (per output)</td>
<td>100 mW (per output)</td>
</tr>
<tr>
<td>Minimum Load Impedance</td>
<td>9.5 Ω</td>
<td>9.5 Ω</td>
</tr>
<tr>
<td>High Boost</td>
<td>Selectable: +2 dB, +4 dB @ 10 kHz</td>
<td>Selectable: +2 dB, +4 dB @ 10 kHz</td>
</tr>
<tr>
<td>Volume Limiter</td>
<td>Selectable: 3–9 Limits volume adjustment knob. Selected value analogous to volume knob increment.</td>
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</tr>
<tr>
<td>Net Weight</td>
<td>196 g (6.9 oz) with 2 AA batteries</td>
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</tr>
<tr>
<td>Dimensions</td>
<td>99 mm x 66 mm x 23 mm (3.9 in. x 2.6 in. x 0.9 in.)</td>
<td>99 mm x 66 mm x 23 mm (3.9 in. x 2.6 in. x 0.9 in.)</td>
</tr>
<tr>
<td>Battery Life</td>
<td>6 hours typical using AA batteries</td>
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</tr>
</tbody>
</table>

## Additional Details

**PSM® 900 Body Pack P9RA**

- RF Output Power: Selectable 10, 50, and 100 mW (+20 dBm), region-dependent
- RF Output Impedance: 50 Ω typical
- Net Weight: 850 g (1.87 lb)
- Dimensions: 197 mm X 166 mm X 42 mm (7.75 in X 6.55 in X 1.65 in)

**PSM® 1000 Body Pack P10R**

- RF Output Power: Selectable: 10, 50, 100 mW (+20 dBm), region-dependent
- RF Output Impedance: 50 Ω typical
- Net Weight: 4.7 Kg (10.4 lb)
- Dimensions: 483 mm x 343 mm x 44 mm (19.0 in. x 13.5 in x 1.7 in)

**PSM® 900 Transmitter P9T**

- RF Output Power: Selectable 10, 50, and 100 mW (+20 dBm), region-dependent
- RF Output Impedance: 50 Ω typical
- Net Weight: 4.7 Kg (10.4 lb)
- Dimensions: 483 mm x 343 mm x 44 mm (19.0 in. x 13.5 in x 1.7 in)

**PSM® 1000 Transmitter P10T**

- RF Output Power: Selectable: 10, 50, 100 mW (+20 dBm), region-dependent
- RF Output Impedance: 50 Ω typical
- Net Weight: 850 g (1.87 lb)
- Dimensions: 197 mm X 166 mm X 42 mm (7.75 in X 6.55 in X 1.65 in)

**Power Requirement**

- United States, Canada: 415 mA typical @ 120 V AC (with RF on in 100 mW power mode, no audio)
- Input: 100–240 V AC, 50/60 Hz, 0.5 A max (5.5 max outlet)
- Output: 100–240 V AC, 50/60 Hz, 5 A max, unswitched

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Wireless Workbench 6

PSM 1000 is fully networkable with the Shure Wireless Workbench 6 wireless system control software. The new WWB6 features a re-imagined graphic user interface, with enhancements tailored to support advances in RF spectrum management technology and live performance monitoring.

SB900 Rechargeable Battery

Smart, rechargeable lithium-ion battery that provides up to 10 hours of continuous use, with precision metering of battery life health tracking.

SBC800 Recharging Station

This compact and portable unit charges 8 SB900 batteries to full capacity within 3 hours, with status LEDs to indicate power levels. SB900 batteries fit securely and can be stored in the charger for easy, efficient transport.

PSM 1000

72 MHz Tuning Range* | More channels on air.

The widest PSM tuning range, combined with ultra-linear RF transmission, delivers more channels on air—up to 39 in a single frequency band—and fewer dropouts than any other system. * Region dependent

Rechargeability | Advanced power management.

Both PSM 900 and PSM 1000 offer an advanced and efficient rechargeability option that provides extended usage times and eliminates the need to constantly replace disposable batteries.

SE425 Sound Isolating™ Earphones

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

Both systems offer these advanced features:

- Exceptional Audio Quality
- Enhanced RF Performance
- Category-Leading Controls

Advanced Rechargeability Options

Provides extended usage times and precise tracking of battery life and health.

CueMode

Use one bodypack to audition up to 20 mixes, at the touch of a button.

Shure Audio Reference Companding

Pinned level control that makes sensitive sounds more level.

Scan & Sync

Find and assign channels easily, over wireless IR link, in seconds.

Enhanced Stereo Encoder

Experience soundstage enhancements that are usually found in a personal monitor system.

RF Mute Switch

The “Do Not Disturb” RF button—perform setup operations without disturbing the RF environment.

MixMode

Independently balance L/R output levels to create a personal mix for each bodypack.

Noise-Sensitive Squelch

Automatically detects and mutes audio before unwanted noise can reach the performer.

PSM 900 AND PSM 1000

PERSONAL MONITOR SYSTEMS.

ONLY FROM SHURE.

PSM 900 and PSM 1000 Personal Monitor Systems are the first choice for premier events, professional installations, and prestige tours. Offering legendary Shure audio quality, pristine RF signal with more channels on air and breakthrough automated features that vastly simplify setup and operation, these systems advance personal monitoring to the highest level.

PSM 900

36 MHz Tuning Range | Wider range, better signal.

An expansive tuning range, along with enhanced front-end RF filtering, delivers more channels on air and fewer dropouts than ever.

Half-Rack, Single Channel Transmitter | Precise operation.

The P10T transmitter features intuitive front panel controls and comes in a compact, half-rack chassis.

Up to 20 Compatible Channels | Optimized for efficiency.

Advanced filtering and newly reduced frequency intermodulation allow up to 20 compatible channels to operate simultaneously on one frequency band.

Radio Modules Wireless Workbench 6

PSM 1000

72 MHz Tuning Range* | More channels on air.

The wider PSM tuning range, combined with ultra-linear RF transmission, delivers more channels on air—up to 39 in a single frequency band—and fewer dropouts than any other system. * Region dependent

Dual-Channel, Networkable Transmitter | Expanded wireless control.

The P10T is a full-rack, dual-channel transmitter housed in a touring-grade, all-metal chassis, with networked control via Ethernet that vastly simplifies setup for high channel counts.

Diversity Bodypack with Full Bandwidth Scan | Enhanced RF performance.

The P10R scans the entire 72 MHz bandwidth and sends detailed spectrum information—including a high-resolution frequency plot—to the transmitters via IR sync.

Dual-Channel, Networkable Transmitter | Expanded wireless control.

The P10T is a full-rack, dual-channel transmitter housed in a touring-grade, all-metal chassis, with networked control via Ethernet that vastly simplifies setup for high channel counts.

PSM 900 and PSM 1000 Personal Monitor Systems are the first choice for premier events, professional installations, and prestige tours. Offering legendary Shure audio quality, pristine RF signal with more channels on air and breakthrough automated features that vastly simplify setup and operation, these systems advance personal monitoring to the highest level.

Advanced Rechargeability Option

Provides extended usage times and precise tracking of battery life and health.

CueMode

Use one bodypack to audition up to 20 mixes, at the touch of a button.

Shure Audio Reference Companding

Pinned level control that makes sensitive sounds more level.

Scan & Sync

Find and assign channels easily, over wireless IR link, in seconds.

Enhanced Stereo Encoder

Experience soundstage enhancements that are usually found in a personal monitor system.

RF Mute Switch

The “Do Not Disturb” RF button—perform setup operations without disturbing the RF environment.

MixMode

Independently balance L/R output levels to create a personal mix for each bodypack.

Noise-Sensitive Squelch

Automatically detects and mutes audio before unwanted noise can reach the performer.

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