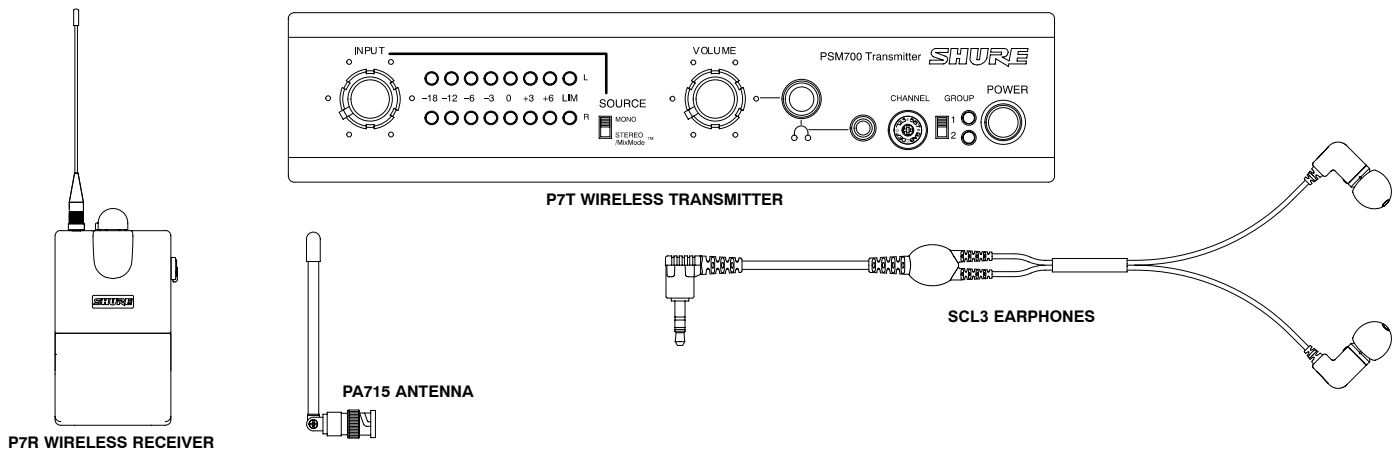


### PSM 700 IN-EAR MONITOR SYSTEM



### SYSTEM FEATURES

The Shure PSM700 Wireless Personal Monitor System is a UHF frequency-agile, two-channel monitoring system designed for onstage applications. The PSM has several advantages over onstage loudspeaker monitors: it is less visible, has better sound, allows freedom of movement, and reduces

the chances of feedback. It is a versatile system, designed for use in many different sound reinforcement applications: public address, live music, theater, and electronic news gathering (ENG). The wireless system is frequency compatible with other Shure UHF and VHF wireless systems.

### FEATURES

- UHF operation.
- Stereo or MixMode™ control for custom monitor mixes.
- 32 user-selectable frequencies per system.
- Up to 16 compatible frequencies for 16 different mixes.
- Frequency compatible with all Shure Wireless systems (country dependent).
- MPX Stereo audio transmission.
- Switchable high-frequency boost on P7R.
- +4 dBu/-10 dBV input level select switch on P7T.
- Electronically balanced, combined 1/4-in./XLR connectors on P7T can be used with balanced or unbalanced outputs.
- Volume and Balance dials on the P7R Receiver for easy user access.
- Internal linear power supply on P7T, switchable between 120 VAC and 230 VAC.
- Peak transmitter modulation limiter with fixed threshold and modulation limit indicators.
- Loop out connectors on P7T for multiple mix setups and easy installation.
- Tone-Key squelch.
- Half-rack chassis on P7T complete with mounting hardware.
- All metal construction on P7T and P7R
- Headphone monitor on P7T for local listening.
- Universal Earphones which seal off the ear canal to reduce ambient sound levels.

### SPECIFICATIONS

#### SYSTEM

##### RF Carrier Frequency Range

722 to 865 MHz (country dependent)

##### Operating Range

300 ft. (environment dependent)

##### Audio Frequency Response

50 to 15k Hz (+0, -3 dB re 1 kHz); earphone dependent

##### Image Rejection

80 dB typical

##### Spurious Rejection

80 dB typical

##### Total Harmonic Distortion (1 kHz)

0.8% typical (Ref. ±35 kHz deviation)

##### Modulation

FM ±35 kHz Deviation (Nominal), MPX Stereo

**Channel Separation:** 35 dB typical

**Signal-to-Noise Ratio:** 80 dB typical (A-weighted)

##### Operating Temperature

-7° C to +49° C  
(+20° F to 120° F)

**Battery Life:** 4-6 hours, volume dependent

##### Polarity

P7T audio inputs to P7R audio outputs: Non-inverting  
XLR: pin 2 positive with respect to pin 3  
1/4-in. TRS: Tip positive with respect to ring

#### P7T TRANSMITTER

##### RF Output Power

100 mW (+18.5 dBm) typical conducted  
(country dependent)

**Modulation Limiter**

Internal peak limiter (>10:1 compression)

**Antenna:** External whip, 50 Ω BNC connector

**Power Requirements**

P7T: 120 Vac, 50/60 Hz, 5 mm X 20 mm

EP7T: 230 Vac, 50/60 Hz, 5 mm X 20 mm

**NOTE:** This product is not disconnected from the mains power supply when the power switch is in the OFF position.

**Current**

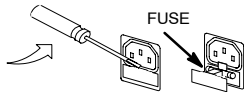
115 mAac maximum at 120 Vac

55 mAac maximum at 230 Vac

**Fuse**

P7T: 100–120 Vac, 160 mA/250 V (SLO-BLO®)

EP7T: 220–240 Vac, 80 mA/250 V time delay



**Dimensions**

44.5 mm X 196.8 mm X 241.3 mm  
(1 3/4 in. X 7 3/4 in. X 9 1/2 in.)

**Net Weight**

1.497 kg (3 lbs., 4.8 oz.)

**P7R RECEIVER**

**RF Sensitivity**

0.7 μV typical

**Squelch Threshold**

2 μV typical

**Antenna Input Impedance**

50 Ω typical

**Antenna**

External, threaded connector

**Power**

9 V battery (alkaline recommended),  
4–6 hours (volume dependent)

**Audio Output Connector**

3.5 mm Stereo (Left = tip, Right = ring, Ground = sleeve)

**Minimum Load Impedance:** 16 Ω

**Net Weight:** 0.23 kg (0.52 lbs.)

**Overall Dimensions**

27.18 mm X 64.52 mm X 85.09 mm  
(1.070 in. X 2.540 in. X 3.350 in.)

**Components**

**P7T Wireless Transmitter**

with rack-mounting hardware and detachable antenna

- Combined 1/4" and XLR Input Connectors
- Stereo Input Meter and Input Level Control
- Channel Select Control
- Mono/Stereo/MixMode Source Switch
- Earphone Connector and Volume Control
- LOOP Out Connectors
- Input Pad Switch

**P7R Wireless Body-Pack Receiver**

with detachable antenna

- Balance Control
- Low Battery Indicator

**CONNECTORS**

**P7T Audio Inputs (LEFT/CH.1 and RIGHT/CH.2)**

|  |   |   |
|--|---|---|
| <b>Connector:</b><br>(XLR and 1/4-inch combined) | XLR (female)  | 1/4-inch phone jack (female)                          |
| <b>Configuration:</b>                            | electronically balanced                               | electronically balanced                               |
| <b>Actual Impedance:</b>                         | 20 kΩ   | 20 kΩ   |
| <b>Nominal Input Level:</b>                      | +4 dBu (+4 input level)<br>-10 dBV (-10 input level)  | +4 dBu (+4 input level)<br>-10 dBV (-10 input level)  |
| <b>Maximum Input Level:</b>                      | +25 dBu (+4 input level)<br>+13 dBu (-10 input level) | +25 dBu (+4 input level)<br>+13 dBu (-10 input level) |
| <b>Pin Assignments:</b>                          | Pin 1 = ground<br>Pin 2 = hot<br>Pin 3 = cold         | Tip = hot<br>ring = cold<br>sleeve = ground           |
| <b>Phantom Power Protection?</b>                 | Yes<br>Up to 60 VDC                                   | Yes<br>Up to 60 VDC                                   |

**P7T L/R LOOP Outputs**

|                                  |   |
|----------------------------------|---|
| <b>Connector:</b>                | 1/4-inch phone jack (female)                          |
| <b>Configuration:</b>            | electronically balanced                               |
| <b>Actual Impedance:</b>         | 20 kΩ   |
| <b>Nominal Output Level:</b>     | +4 dBu (+4 input level)<br>-10 dBV (-10 input level)  |
| <b>Maximum Output Level:</b>     | +25 dBu (+4 input level)<br>+13 dBu (-10 input level) |
| <b>Pin Assignments:</b>          | Tip = hot<br>ring = cold<br>sleeve = ground           |
| <b>Phantom Power Protection?</b> | Yes<br>Up to 60 VDC                                   |

- Power LED
- ON/OFF/Volume Control
- RF LED
- Channel Select Control

**One Pair of SCL3 or SCL5 Earphones**

with foam and flex-tip ear inserts

- Low-mass, high-energy transducers
- Universal fit
- Choice of isolating sleeves; Custom molded sleeves available for SCL3 model earphones
- Carrying pouch for convenient storage
- Adjustment tube for securing the cables
- Tool for removing wax buildup in the earphone