

ongratulations on purchasing your Shure Performance Gear Wireless system. Shure professional audio products deliver legendary sound quality, stage-proven durability and hassle-free setup

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for worry-free performance. Performance Gear Wireless systems are available in a variety of configurations for handheld, guitar, headset, and presentation applications

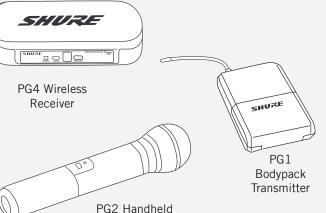


# System Components





PG88 Dual Wireless Receiver



Transmitter



PG30 Headworn Mic



#### Startup

or bodypack.

1 Turn **OFF** the microphone

If left on, it will create a

false busy indicator.

2 Plug in the power supply.

illuminate.

The channel display should

There is no power switch.

3 Press and hold down the

channel button until the

display begins flashing.

If you see the **Busy** 

change the channel.

to stop flashing.

4 Wait for the channel display

**Indicator** (a flashing dash)

Follow these simple steps to check for interference and to

set your receiver and transmitter to the same channel.

12-18V <del>- - -</del>

160mA - -**⊕**- +

channel



Turn **ON** the handheld or bodypack transmitter by pressing the power button.

5 If you haven't installed the

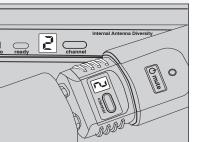


The channel display should illuminate.

It turns off after ten seconds to conserve battery.

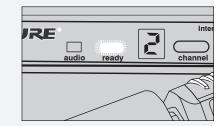


Check to see that the transmitter and the receiver display the same channel.



The ready LED on the receiver should be illuminated.

B Replace battery cover.

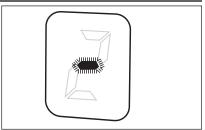


#### Features

#### Busy Indicator

When selecting channels, a flashing dash indicates interference from television broadcasts, electronic devices or other wireless systems.

If this occurs, change the channel.



Internal Ante

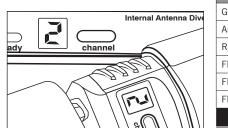
#### Changing Channels

Press and hold the channel button until the display starts flashing.

While the display is flashing, press the channel button.



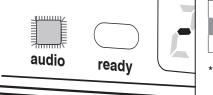
and transmitter channels should match.



# Testing Aud

Talk or sing into the microphone or play instrument.

The audio LED on the receiver should flicker green or amber, if red, adjust the Gain Switch.



### Locking and Unlocking Transmitter Controls

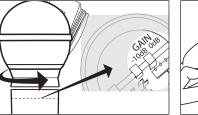
Lock system controls to prevent accidental muting.

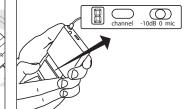
To lock controls: Turn transmitter off. Remove Battery Cover. Press and hold Channel Button. Press and release Power/Mute button. Power/Mute LED will flash red and green.

To unlock controls: Press and hold Power/Mute button down until Power/Mute LED flashes red and green.

## Accessing Gain Switch

Multiple gain settings are available on the PG1 and PG2 transmitters. To change gain settings, see below.





**OdB** For instrument or quiet to normal vocal performance (default). -10dB Use if audio is distorted due to high vocal or instrument levels. **mic** Use for headworn or lavalier microphones (PG1 only).

#### LED Status TRANSMITTER Ready Mute on Battery low\* Flashing Red on startup Battery is dead Flashing Green and Red Controls locked Flashing Amber and Red Mute on, battery low

RECEIVER		
AUDIO LED COLOR	INDICATES	
Green	Normal signal strength	
Amber	Strong signal	
Red	Peak signal	
READY DISPLAY COLOR	INDICATES	
Green	System is ready	

\* See "Changing Battery"

		AUDIO LED COLOR
dio		Green
	1	Amber

# Changing Battery

Expected life for a 9 volt alkaline battery is up to 8 hours. Total battery life will vary depending upon battery type and manufacturer.

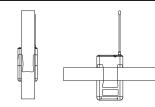
Red LED signifies "low battery" with typically less than 60 minutes of remaining battery life.

**Note:** Remaining battery life will vary depending upon battery type and manufacturer.

#### Wearing the Bodypack Transmitter

Clip the transmitter to belt or guitar strap as shown.

Make sure the antenna is unobstructed.



# Multiple System Setup

Iroubleshooting				
Issue	LED Status	Solution		
No sound or faint sound	Transmitter Power/ Mute LED on, receiver LEDs on	<ul><li>Perform transmitter setup.</li><li>Verify all sound system connections.</li><li>Adjust transmitter gain.</li></ul>		
	Receiver Channel Display off	<ul> <li>Make sure AC adapter is securely plugged into electrical outlet and into POWER connector on rear panel of receiver.</li> <li>Make sure AC electrical outlet works and is supplying proper voltage.</li> </ul>		
	Transmitter LED glowing or flashing red	Replace transmitter battery.		
	Transmitter LED off	<ul> <li>Turn transmitter on.</li> <li>Make sure the +/- indicators on battery match transmitter terminals.</li> <li>Insert fresh battery.</li> </ul>		

Remove nearby sources of RF

monitor systems, etc.)

· Reduce transmitter gain.

Replace transmitter battery.

and transmitter.

interference (CD players, computers,

Select a new channel for both receiver

cell phones, digital effects, in-ear

# Distortion or unwanted noise bursts

transmitter on | flashing red

Multiple System Setup				If using multiple systems, change the
equencies and compatibility refer to channel guide				channel of one of the active systems.
		ferent from cabled ohone, or when using s		Adjust transmitter gain as necessary.
	Cannot turn	Transmitter LED	•	Replace transmitter battery.

# System Components

All Systems				
PG4 or PG88 Receiver Internal Diversity Antenna System				
One 9 volt battery	AC Power supply User guide			
Vocalist System				
Microphone Head	PG2 handheld transmitter Microphone clip			
Instrument Syste	em			
PG1 bodypack	4-pin mini connector (TA4F) to			
transmitter	1/4" connector cable			
Lavalier and Headworn System				
PG1 bodypack transmitter	Microphone (choice of PG185, PG30)			

## Replacement Parts

All Systems	Microphone Stand Adapter (PGX2)	WA371
System-Specific	AC Adapter (120 VAC, 60 Hz)	PS21
	AC Adapter (220 VAC, 50 Hz), Argentina	PS21AR
	AC Adapter (230 VAC, 50/60 Hz, Europlug)	PS21E
	AC Adapter (230 VAC, 50/60 Hz, UK)	PS21UK
	AC Adapter (100 VAC, 50/60 Hz)	PS21J
	AC Adapter (220 VAC, 50 Hz, China)	PS21CHN
	AC Adapter (230 VAC, 50 Hz,, Australia)	PS21AZ
	AC Adapter (220 VAC, 60 Hz, Korea	PS21K
	PG58 Head with Grille	RPW108
	Belt Clip	44A8035
Optional	Universal Rack Tray	URT
	4-pin mini connector (TA4F) to 1/4" connector cable	WA302

## Technical Specifications

#### System

	Working Range	75m (250 ft.) Note: actual range depends on RF signal absorption, reflection, and interference.
	Audio Channel Response	Minimum: 45 Hz. Maximum: 15 kHz (overall system channel depends on microphone element).
	Total Harmonic Distortion	0.5%, typical Ref. +/– 33 kHz deviation, 1 kHz tone
1	Dynamic Range	>100 dB A-weighted, typical
	Operating Temperature Range	$-18^{\circ}$ C (0°F) to +57°C (+135°F) Note: battery characteristics may limit this range
	Transmitter Audio Polarity	Positive pressure on microphone diaphragm (or positive voltage to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low impedance output) and the tip of the high impedance 1/4-inch output.

#### PG1 Bodypack Transmitter

Audio Input Level	-10 dBV maximum at "mic" gain position +10 dBV maximum at 0dB gain position +20 dBV maximum at -10dB gain position
Gain Adjustment Range	30 dB
Input Impedance	$1$ m $\Omega$
RF Transmitter Output	10 mW typical (dependent on applicable country regulations)
Dimensions	110 mm H x 64 mm W x 21 mm D (4.3 x 2.5 x 0.8 in.)
Weight	75 grams (2.6 oz.) without battery
Housing	Molded ABS
Power Requirements	One 9V alkaline or rechargeable battery
Battery Life	Up to 8 hours (alkaline)*

# \* See "Changing Battery"

#### PG2 Handheld Transmitter

Audio Input Level	+2 dBV maximum at -10dB position -8 dBV maximum at 0dB position
Gain Adjustment Range	10dB
RF Transmitter Output	10 mW typical (dependent on applicable country regulations)
Dimensions	223.52 L x 53.34 Dia. (8.8 in. x 2.10 in.)
Weight	218 grams (7.7 oz.) without battery
Housing	Molded ABS handle and battery cup
Power Requirements	One 9V alkaline or rechargeable battery
Battery Life	Up to 8 hours (alkaline)*

<sup>\*</sup> See "Changing Battery"

## **T**echnical Specifications cont'd

#### PG4 and PG88 Receiver

Output Impedance	XLR connector: 200 $\Omega$ 1/4 inch connector: $1k\Omega$		
Audio Output Level Ref. +/– 33 kHz deviation with LkHz tone	XLR connector (into $100 \text{K}\ \Omega$ load): $-19$ dBV, typical $1/4$ inch connector (into $100 \text{K}\ \Omega$ load): $-5$ dBV, typical		
Sensitivity	-105 dBm for 12 dB SINAD, typical		
mage Rejection	>50 dB, typical		
Dimensions	188 mm L x 103 mm W x 40 mm D (7.4 in. x 4.0 in. x 1.5 in.)		
Dimensions - PG88	388 mm L x 116 mm W x 40 mm D (15.3 in. x 4 in. x 1.5 in.)		
Veight	241 grams (8.5 oz)		
Veight - PG88	429 grams (15.1 oz)		
Housing	Molded ABS		
Power Requirements	12–18 Vdc at 160 mA (PG4), 320mA (PG88), supplied by external power supply		

# Regulatory Information

Regulatory Information for North America, Europe, and Australia PG1 & PG2 Transmitters: Certified to FCC Part 74 (FCC ID: "DD4PG1" and "DD4PG2"). Certified by IC in Canada under RSS-123 and RSS-102 ("IC: 616A-PG1" and "IC: 616A-PG2"). Meets the essential requirements of the European R&TTE Directive 99/5/EC (ETSI EN 300-422 Parts 1 & 2, EN 301 489 Parts 1 & 9) and are eligible to carry the CE marking. PG4 and PG88 Receiver: Authorized under Declaration of Conformity (DoC) provision of

# **(€** 0978 ①

FCC Part 15. Certified under Industry Canada to RSS-123 ("IC: 616A-PG4"). This class B digital apparatus complies with Canadian ICES-003. Meets the essential requirements of the European R&TTE Directive 99/5/ EC (EN 301 489 Parts 1 & 9, EN 300 422 Parts 1 & 2) and is eligible to carry the CE marking. Conforms to Australian EMC requirements and is eligible for C-Tick marking.

# **©**N108 **(€**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio channel energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the

- interference by one or more of the following measures: -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.

PS21 Series Power Supplies: Conform to Safety Standard IEC 60065. PS21E and PS21UK are eligible to bear CE marking.

A ministerial license may be required to operate this equipment in certain areas. Consult your national authority for possible requirements.

This radio equipment is intended for use in musical professional entertainment and similar applications.

#### Caution

Changes or modifications not expressly approved by Shure Incorporated for compliance could void the user's authority to operate the equipment. Operation of this device is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the

#### Patents

Patent numbers 6,597,301, 6,296,565, 7,414,587, D536,692 and D535,974



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