

Model PA821A Antenna Combiner

Guide de l'utilisateur du répartiteur d'antenne PSM®

Bedienungsanleitung für die Antennenweiche PSM®

Guía del usuario del combinador de antenas PSM®

Guida d'uso del combinatore di antenne PSM®

PSM® アンテナコンバイナ ユーザーガイド

PSM® 天线合并器用户指南

PSM® 天線合并器用戶指南

PSM® Antenna Combiner 사용자 설명서



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

! IMPORTANT SAFETY INSTRUCTIONS !

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.



12. USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
16. The MAINS plug or an appliance coupler shall remain readily operable.
17. The airborne noise of the apparatus does not exceed 70dB (A).
18. Apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
19. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
20. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.

WARNING: Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel. The safety certifications do not apply when the operating voltage is changed from the factory setting.

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

DESCRIPTION

The Shure PA821A Antenna Combiners actively combine antenna outputs from up to eight PSM wireless transmitters to a single antenna, improving RF performance and reducing rack clutter.

INSTALLATION

Set the power switch on the front panel to OFF before installing. Connect the unit to an AC power source using the supplied power cable. Switch the power ON to use the device. The power light will illuminate. Power the unit OFF when not in use or before disconnecting the unit from the AC power source.

8-TO-1 COMBINING:

1. Using the supplied BNC-BNC cables, connect the **Antenna Output** of each transmitter to the **ANTENNA INPUTS** of the PA821A (Figure 2).
2. Attach an antenna to the **MAIN Out** of PA821A. For wideband applications, use PA805SWB directional antenna (Figure 1).
3. Connect the PA821A to a power outlet using one of the supplied power cables. The PA821A contains a universal power supply to operate anywhere in the world.

NOTE: When the PA821A is powered on, the input signal indicators (1-8) on the front panel will illuminate if an active transmitter is connected to the corresponding input (1-8) on the back panel (Figure 1).

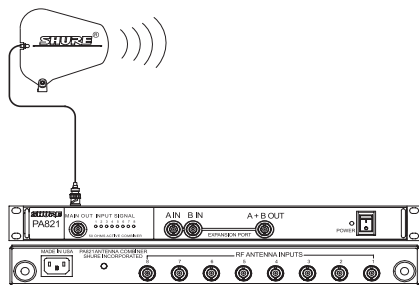


FIGURE 1

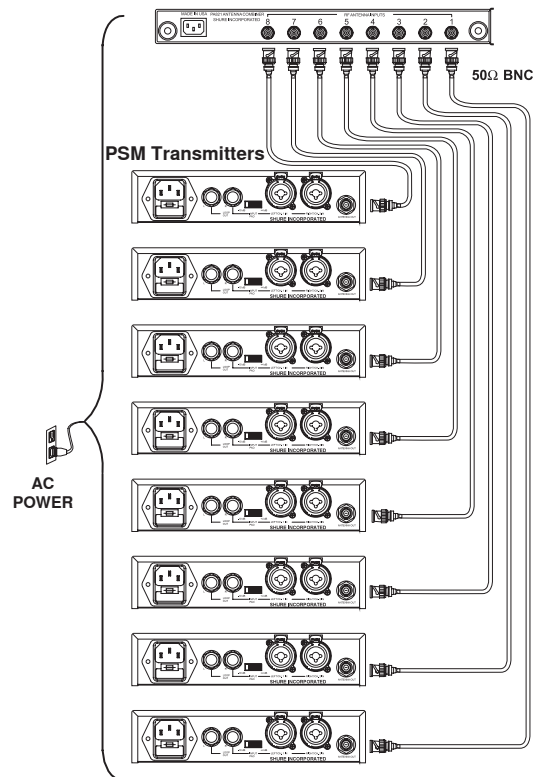


FIGURE 2

FOR MORE THAN 8 TRANSMITTERS

- Using the supplied **BNC-BNC** cables, connect the **Antenna Output** of each transmitter to the **Antenna Inputs** of the PA821A.
- Use the 1 ft. jumper **BNC-BNC** cable to connect the **MAIN Output** of the PA821A to the **A IN** of the **Expansion Port**.
- Connect another **Antenna Output** (from a ninth PSM transmitter, second PA821A or other antenna port) to the **B IN** of the **Expansion Port**.
- Attach an antenna to the **A + B OUT** of the Expansion Port. For wideband applications, use the PA805-SWB directional antenna, Figure 3.

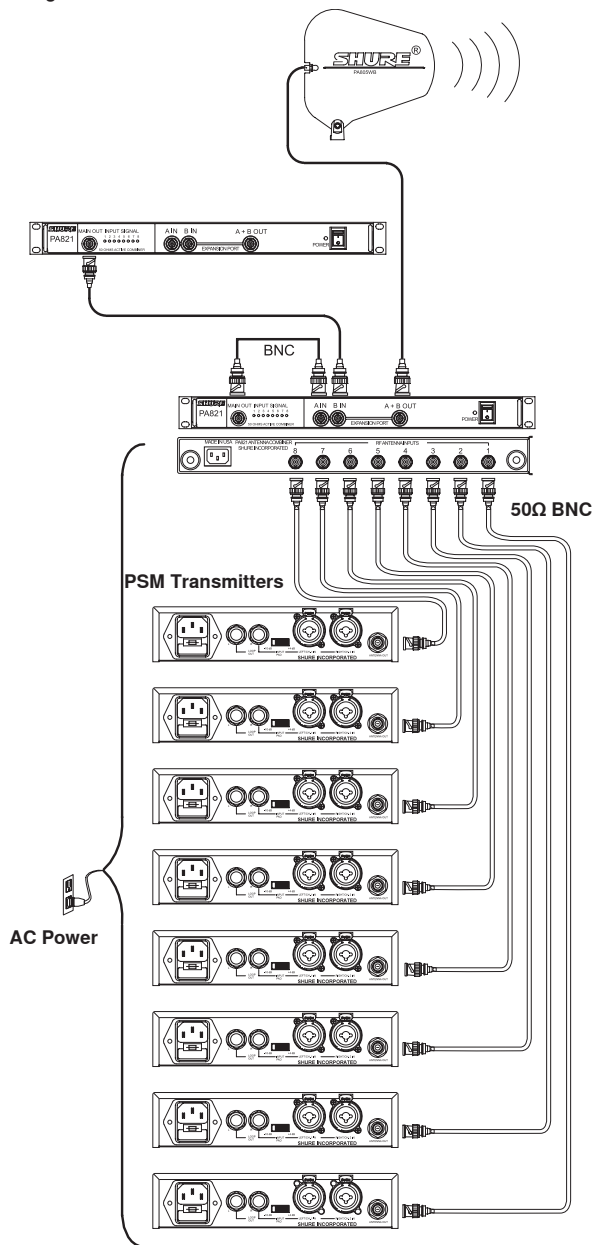


FIGURE 3

SPECIFICATIONS

RF Carrier Frequency Range	470-952 MHz
System Gain	+0/-5 dB
Input AC Line Voltage	100-240 Vac, 50/60 Hz
Maximum Input Line Power	70W
Maximum Current Drain	150VA max 0.42-1.5 Amperes (Amperes = 150 VA/Input AC Line Voltage)
Maximum RF Input Power	24 dBm (250 mW) per channel
Input Signal Indicator Threshold	+4 dBm (2.5 mW), +2 dBm (1.6 mW) typical
Impedance	50 Ω nominal
Operating Temperature Range	0° F (-18° C) to +145° F (+63° C)

NOTE: Electrical safety approval is based on a maximum ambient temperature of 30°C.

Overall Dimensions	43.4 mm high x 398.8 mm wide x 331.5 mm deep (1 11/16 in. H x 15 11/16 in. W x 13 1/2 in. D)
Net Weight	4.53 Kg (10 lbs unpackaged, without power and RF cables)
Input/Output Connector Type	BNC-type 8 input, 1 output ACTIVE 2 inputs, 1 output EXPANSION PORT

FURNISHED ACCESSORIES

(8) 2 ft. Coaxial Cable (RG58C/U)	UA802
1 ft. jumper	95J2035
120 VAC Power Line Cord	95A8389
230 VAC Power Line Cord	95A8247
240 VAC Power Line Cord (U.K.)	95A8713

OPTIONAL ACCESSORIES

Wideband Unidirectional Antenna (470-952 MHz)	PA805SWB
10 ft. Coaxial Cable (RG-8X/U)	PA725
25 ft. Coaxial Cable (RG-8X/U)	UA825
50 ft. Coaxial Cable (RG-8X/U)	UA850

CERTIFICATIONS

PA821A: Certified to FCC Part 74 (FCC ID No. DD4PA821A). Certified in Canada by IC to RSS-123 AND RSS-102 (Certification No. IC: 616A-PA821A). UL LISTED to UL6500 (2nd Edition) and cUL LISTED to CAN/CSA E60065-00. Meets the Essential Requirements of the European R&TTE Directive 99/5/EC, eligible to bear CE mark. Meets EMC requirements of EN 301 489 Parts 1 and 9 and is GS-Certified to EN 60065 (6th Edition). Conforms to Australian EMC requirements, eligible to bear C-Tick mark (N108).

LICENSING

Changes or modifications not expressly approved by Shure Incorporated could void your authority to operate the equipment. Licensing of Shure wireless microphone equipment is the user's responsibility, and licensability depends on the user's classification and application, and on the selected frequency. Shure strongly urges the user to contact the appropriate telecommunications authority concerning proper licensing, and before choosing and ordering frequencies.

THIS RADIO EQUIPMENT IS INTENDED FOR USE IN PROFESSIONAL ENTERTAINMENT AND SIMILAR APPLICATIONS.

NOTE

THIS EQUIPMENT MAY BE CAPABLE OF OPERATING ON SOME FREQUENCIES NOT AUTHORIZED IN YOUR REGION. PLEASE CONTACT YOUR NATIONAL AUTHORITY TO OBTAIN INFORMATION ON AUTHORIZED FREQUENCIES FOR WIRELESS MICROPHONE PRODUCTS IN YOUR REGION.

Licensing: Note that a ministerial license to operate this equipment may be required in certain areas. Consult your national authority for possible requirements.



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