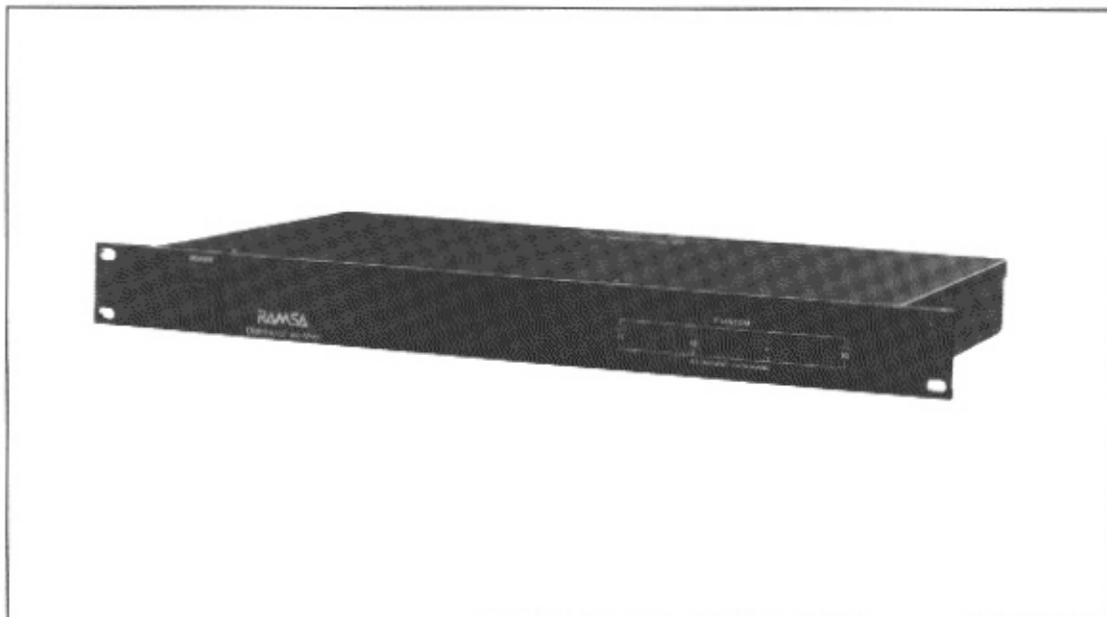


# Operating Instructions

**RAMSA**

Distributor  
**WX-RP900**



**Panasonic®**

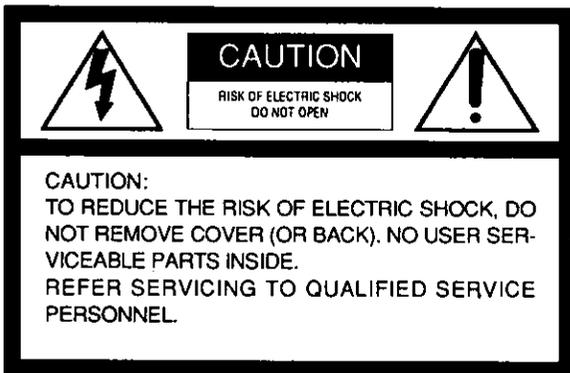
Before attempting to connect or operate this product, please read these instructions completely.

# CONTENTS

PREFACE .....	1
FEATURES .....	1
PRECAUTIONS .....	1
MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS .....	2
SYSTEM CONNECTION .....	3
BLOCK DIAGRAM .....	4
RACK MOUNTING .....	5
SPECIFICATIONS .....	5

## CAUTION:

Before attempting to connect or operate this product, please read the label on the bottom.



SA 1965

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



SA 1966

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The serial number of this product may be found on the bottom of the unit.

You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

## WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

## READ THE FOLLOWING INSTRUCTIONS BEFORE USE

### CAUTION:

It is a violation of Federal Law to begin operating this system prior to obtaining an FCC Radio License.

The FCC ID number for this radio equipment is listed below.

FCC ID : ACK9TAWX-RP900

## PREFACE

The Distributor WX-RP900 is designed to be used with the Diversity Receivers WX-RP810, WX-RP820 and Wireless Antenna WX-RP921 as a multi-channel diversity receiving system.

## FEATURES

- Up to 6 wireless microphones may be used at once with the distributor, using only 1 pair of receiving antennas.
- The distributor accepts 2 channels of antenna input. Each input channel consists of A and B antenna connectors for the diversity system. These inputs are mixed and divided into 3 output channels. Each of these output channels can feed 2 tuners, for a total of 6 frequencies (3 units WX-RP820).
- The space diversity reception system reduces the chance of multi-path reflection drop-outs.
- Phantom power indicators show condition of phantom power for each antenna.

## PRECAUTIONS

The UHF wireless communication system is a sensitive, high quality instrument and should be regarded as such. Because it is an electrical device, the hazard of electric shock exists, if it is used carelessly.

In order to utilize the instrument to its fullest potential, please consider the following points.

1. Handle the equipment with care.  
Do not abuse the equipment. Avoid striking, shaking etc. This equipment contains sensitive components which could be damaged by improper handling or storage.
2. Refer any servicing to qualified service personnel.  
Do not attempt to disassemble the unit. In order to prevent electric shock, do not remove screws or covers. There are no user-serviceable parts inside.
3. For cleaning the unit, wipe with dry cloth.  
If necessary, use a damp cloth with a mild detergent. Do not use chemicals such as benzine, alcohol or thinner for cleaning.
4. Take immediate action if the distributor should become wet.  
Turn the power OFF and consult with qualified service personnel. Moisture can damage the distributor and also create the danger of electric shock.
5. Place two receiving antennas between 16.7ft(5m) and 66ft(20m) apart from each other for the best diversity effect.
6. Do not place the receiving antenna in places affected by strong electrical or magnetic fields, such as near AC power lines, motors, transformers or generators. When operating the wireless system under these conditions, the wireless microphone and antennas should be between 6.7 ft (2m) and 33 ft (10m) apart from each other to avoid interference.
7. When using multiple wireless microphones, the transmitters should be at least 1.6 ft (50 cm) apart from each other.

# MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS

## [Front Panel]



### (1) Power Indicator

This indicator lights up Red when the power switch is turned ON.

### (2) Power ON/OFF Switch(POWER)

This Switch turns ON and OFF the power of this unit and phantom power for wireless antennas.

### (3) Phantom Power Indicators (PHANTOM A1, A2, B1, B2)

These indicators shows condition of phantom power for each antenna.

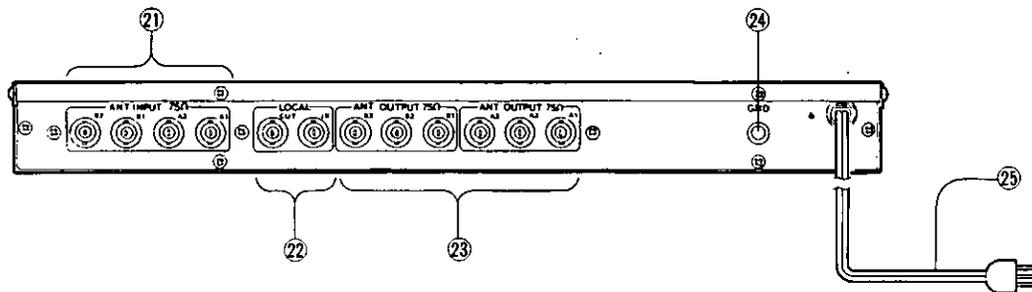
**GREEN :** Phantom power supply condition is normal.

**RED:** Phantom power supply condition is abnormal.

Turn OFF the power and consult with qualified service personnel.

**OFF:** Phantom power is not supplied.

## [Rear Panel]



### (21) Antenna Input Connectors (ANT INPUT A1, A2, B1, B2)

Connect the OUTPUT Connector of Wireless Antenna to these connectors. Phantom power is supplied to the wireless antenna from these connectors.

#### Caution:

Do not connect a 75ohms termination to Antenna Input Connector(ANT INPUT) which is not in use.

### (23) Antenna Output Connectors (ANT OUTPUT A1, A2,A3, B1, B2, B3)

Connect the Antenna Input connector(ANT IN A,B) of Diversity Receiver WX-RP810 and WX-RP820.

### (24) Ground Terminal (GND)

### (25) AC Power Cord

### (22) Local Oscillation Frequency Input/Output Connectors (LOCAL IN/OUT)

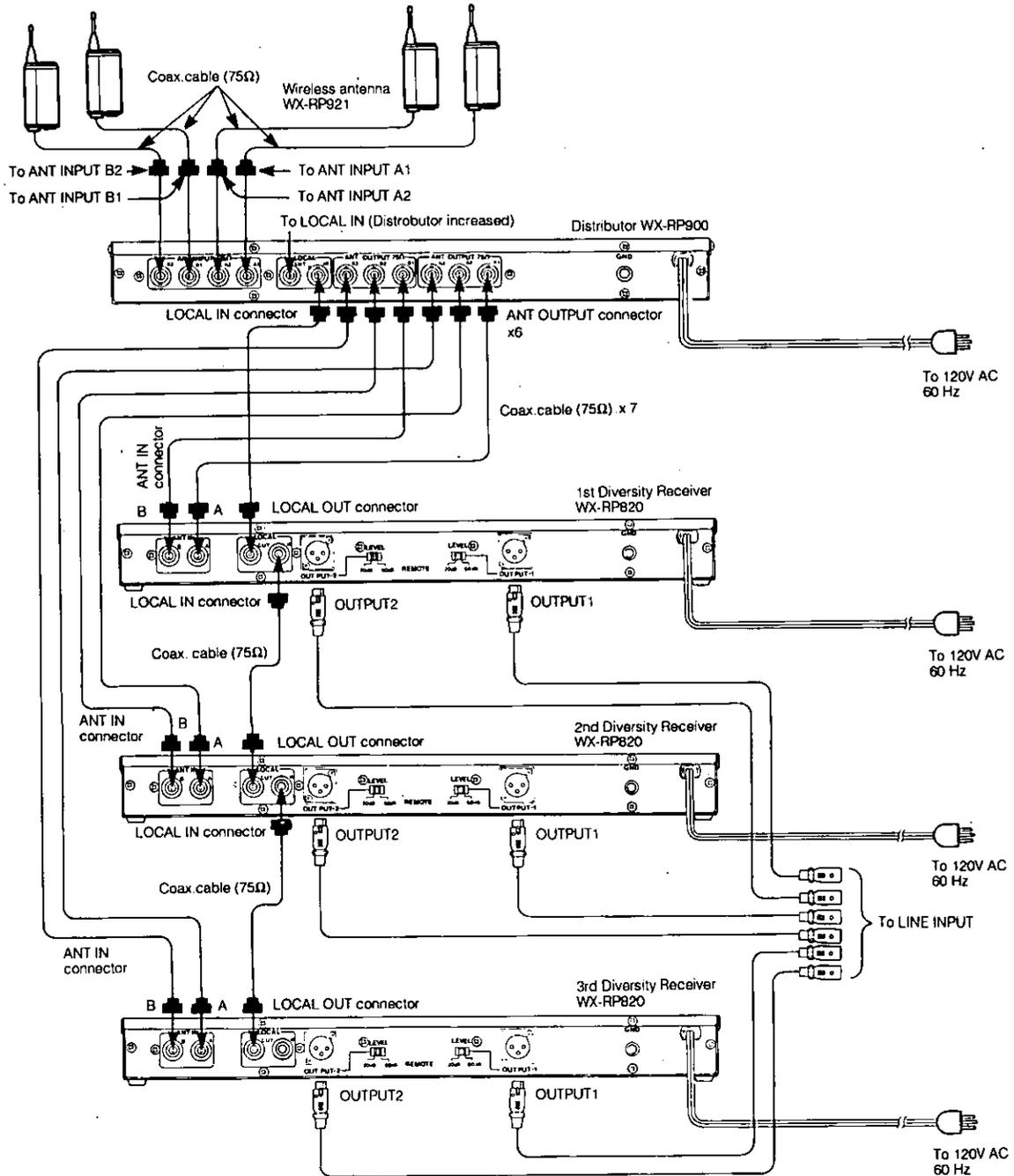
**LOCAL IN:** Connect the LOCAL OUT connector of Diversity Receiver WX-RP810 or WX-RP820.

**LOCAL OUT:** Connect the LOCAL IN connector of other WX-RP900 when increase the wireless antenna.

# SYSTEM CONNECTION

## 6-Channels Diversity Receiving System

1. Connect the coaxial cables between OUTPUT connector of 4 wireless antennas WX-RP921 to antenna input terminals A1, A2, B1 and B2 (ANT INPUT A1, A2, B1, B2) of the distributor.
2. Connect the coaxial cables between the distributor's antenna output connector (ANT OUT) A1, A2 and A3 to antenna input connector (ANT IN) Channel A of three diversity receivers WX-RP820.
3. Connect the coaxial cables between antenna output connector (ANT OUT) B1, B2 and B3 to antenna input connector (ANT IN) Channel B of three diversity receivers WX-RP820.
4. Connect the coaxial cable between local input connector (LOCAL IN) of the distributor to local output connector (LOCAL OUT) of first diversity receiver. In addition, LOCAL IN of the first receiver must be connected to LOCAL OUT of the second receiver, and LOCAL IN of the second receiver must be connected to LOCAL OUT of the third receiver.
5. Connect the XLR 3-pin cables between audio output (OUTPUT 1,2) of diversity receivers to a mixer, mic pre-amplifier or similar equipment.



# BLOCK DIAGRAM

## 3-Channels Diversity Receiving System

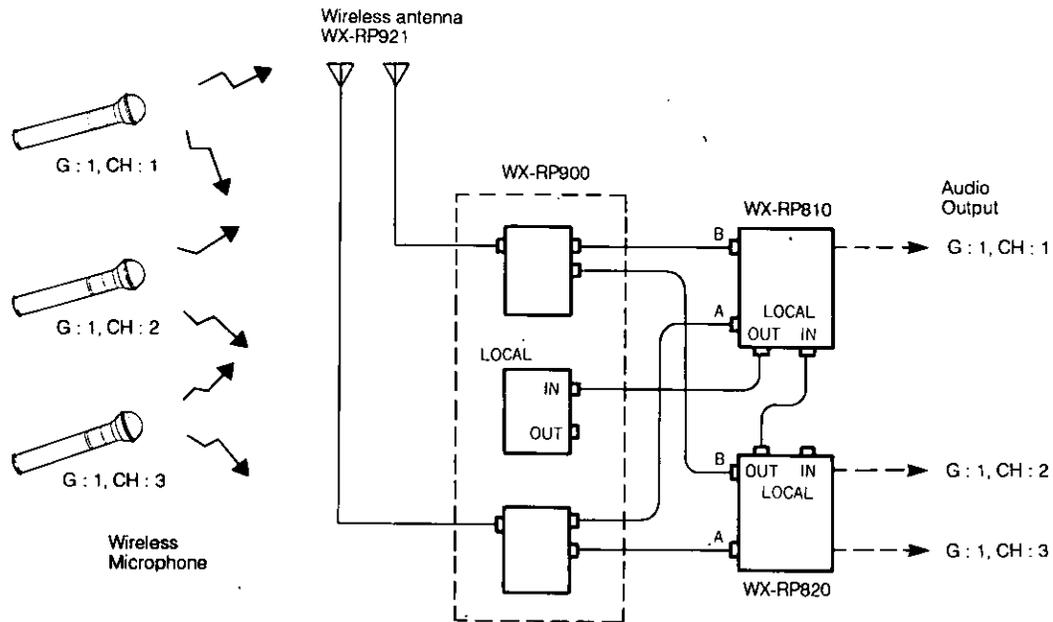
### Note :

- Set the same group number to all transmitters and receivers used in the distributor system, to avoid interference noise caused by adjacent channel interference. Only the channel number should be set different for each transmitter/receiver pair.
- Never switch the receivers or distributor AC power on or off in a live audio system. The resulting surge noise can damage speakers. Power amplifiers must always be turned on last, and turned off first.
- Up to three diversity receivers WX-RP820 can be used with this distributor for receiving as many as 6 transmitting frequencies.

- The allowable cable length between receiving antenna and distributor is as follows.

Type (75ohms)	Extendable distance of cable
RG-59/U	100ft (30m) or less
RG-6/U	200ft (60m) or less

- Receiving antennas must be separated from each other by a distance between 16.7ft (5m) and 66ft (20m).
- Wireless microphone transmitters must be used at least 1.6ft (50cm) apart from each other.
- Do not connect 75 ohms termination to antenna input connector (ANT INPUT) which is not in use. Doing so will prevent phantom power from being supplied to the other antenna terminals.



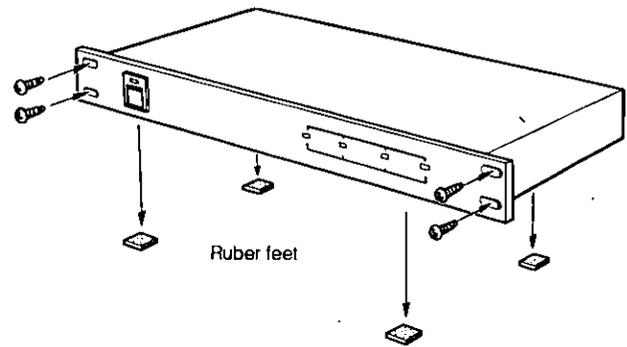
## RACK MOUNTING

This unit is designed to be mounted in an EIA standard 19 inch rack, use mounting screws.

1. Remove four screws which hold the rubber feet and remove four rubber feet from the bottom of the unit.
2. Install the distributor WX-RP900 in the rack by using four screws.

### Cautions :

1. Allow at least 1 or more empty rack space at the both top and bottom of the unit.
2. Secure the rear of the unit to the rack by using the additional mounting angles (obtained locally) to prevent damage to the unit from vibration.



## SPECIFICATIONS

Power Supply	: 120V AC 60Hz
Power Consumption	: Approx. 12W
Mix Distribution In/Out	: 2 input for each Channel, 3 output for each Channel
Maximum Input	: 90dB $\mu$ V (Spurious Ratio : More than 40dB)
Antenna Input Connector	: 2 input for each Channel, BNC 75 ohms
Phantom Power Supply	: 12V DC, 60mA
Antenna Output Connector	: 3 output for each Channel, BNC 75 ohms
Ambient Operating Temperature	: 14°F - 122° (-10°C - +50°C)
Dimensions	: 18-7/8" (W) X 1- 3/4"(H) x 9-13/16" (L)
(Excluding Rubber foot)	: (480 (W) X 44 (H) x 250 (L) mm)
Weight	: 7.70 lbs (3.4 Kg)

Dimensions and weight indicated are approximate.

Specifications are subject to change without notice.

# Panasonic

**Broadcast & Television Systems Company**

**Division of Matsushita Electric Corporation of America**

**RAMSA/Professional Audio Systems**

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