

Wireless Antenna
WX-ZP460

Operating Instructions



Panasonic®

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

**CAUTION**RISK OF ELECTRIC SHOCK
DO NOT OPEN**CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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 side 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.

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READ THE FOLLOWING INSTRUCTIONS BEFORE USE

Use of the Panasonic wireless devices is regulated by the Federal Communications Commission as described in Part 74 subpart H of the FCC regulations, and users authorized there by are required to obtain an appropriate license.

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 limited below.

FCC ID : ACK9TAWX-ZP460

PREFACE

The Wireless Antenna WX-ZP460 is designed to be used with the Diversity Receiver WX-RP401, WX-RP402, or WX-RP404 and the Distributor WX-ZP490 to remote-control antenna sensitivity.

FEATURES

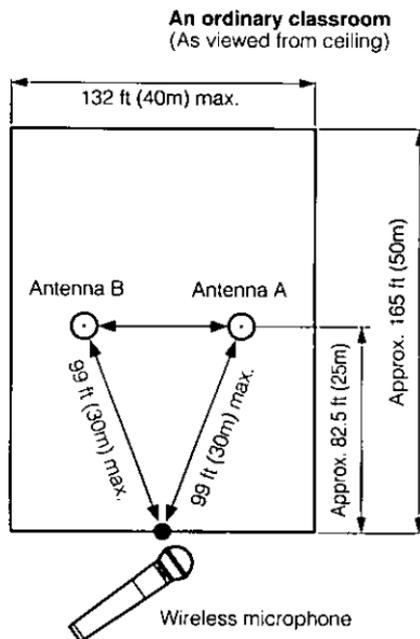
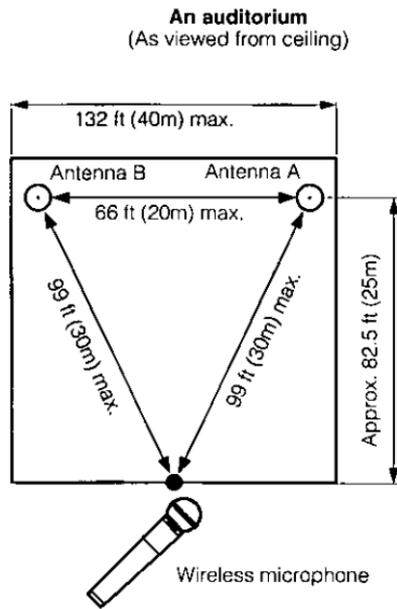
- The WX-ZP460 includes a pre-amp which boosts the antenna signal to compensate for coaxial cable loss between the antennas and Diversity Receivers WX-RP401, WX-RP402, or WX-RP404. It prevents disruption of the voice signal due to squelch and a reduction in the signal-to-noise ratio caused by dead points.
- A phantom power supply system is employed to supply DC power from the Diversity Receivers WX-RP401/WX-RP402/WX-RP404 or Distributor WX-ZP490 to the Wireless Antenna WX-ZP460 via a coaxial cable.

PRECAUTIONS

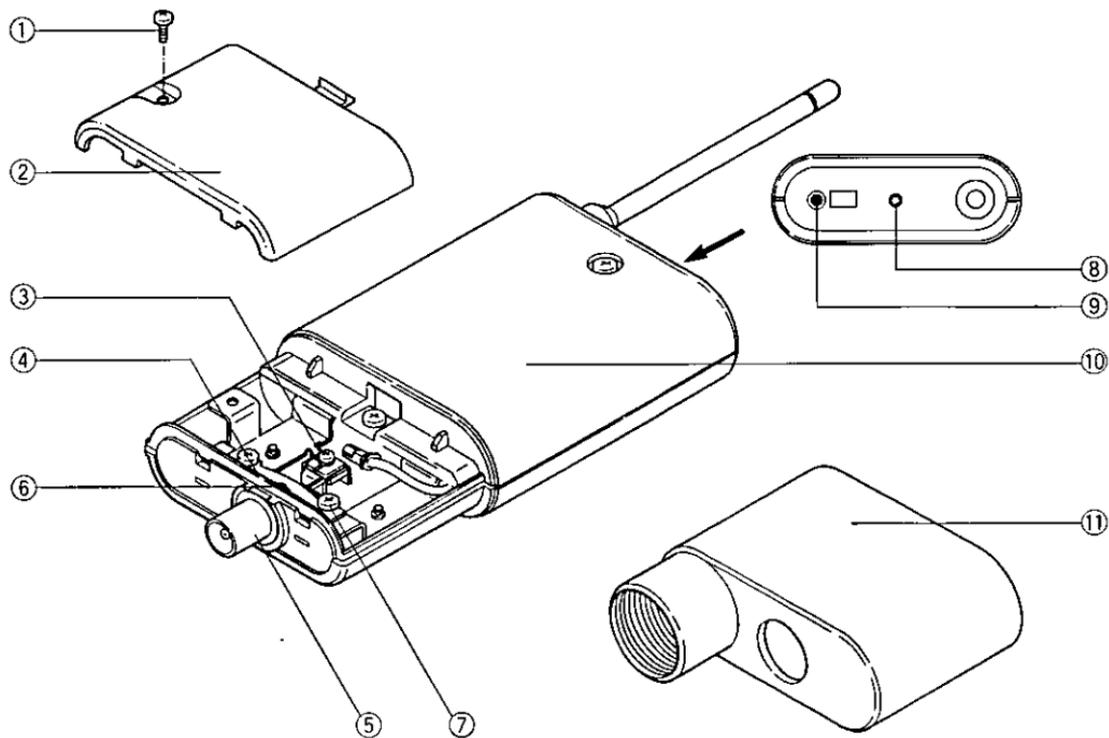
- When mounting the antenna on a wall, mount them vertically at a point where the antenna can be seen within the range in which a wireless microphone is hand-carried from place to place.
- When using the antennas in a tall building, mount them as far away as possible from the windows to minimize the ill effects of broadcasting signals, business signals, external noise, etc. on the antennas. If this is not possible, keep the antennas at least 11 ft (3m) away from the windows.
- Keep the distance between the antennas and wireless microphones within the range of maximum and minimum distances specified in the table on page 8. If the distance between them is close to be within the minimum operating range, the receiver may malfunction due to noise mixed on unused channels or interference.
- Do not install the antennas near (less than 1.1 ft (30cm) from an electric cable or metallic objects. Otherwise, the receiving sensitivity of the antennas will be adversely affected.
- Install the antennas as far away as possible from computers, air cleaners, etc. which generate noise waves.
- Process the coaxial cable ends properly and connect them to RF connectors completely. In case of improper cable end processing or connection, the antennas will lose their receiving sensitivity and will be easily affected by external noise.
- Keep the antennas for diversity reception apart from each other within the range of 16.7 ft (5m) to 66 ft (20m) to ensure effective diversity reception.

BEFORE INSTALLATION

- When installing the WX-ZP460 outdoors, the distance between the antennas and wireless microphones must be about twice (198 ft (60m) maximum) the distance specified for indoor use. The operating range varies depending on the ambient conditions.
- Example:** The Whole Gain Switches on the receiver and distributor in the nominal position:



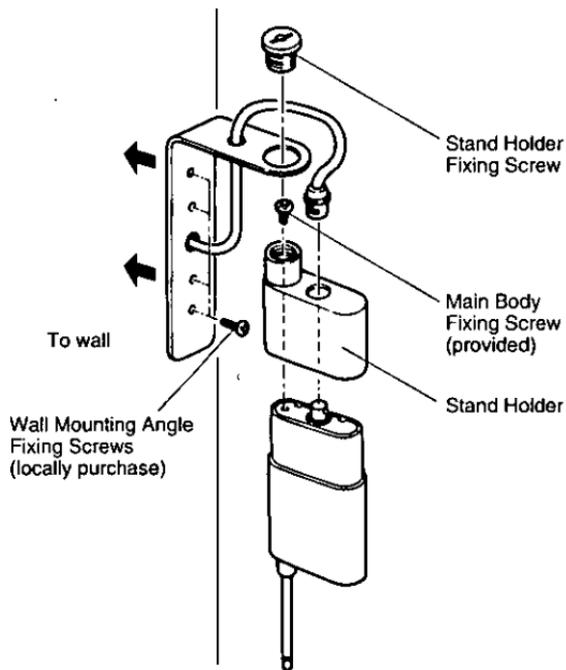
MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



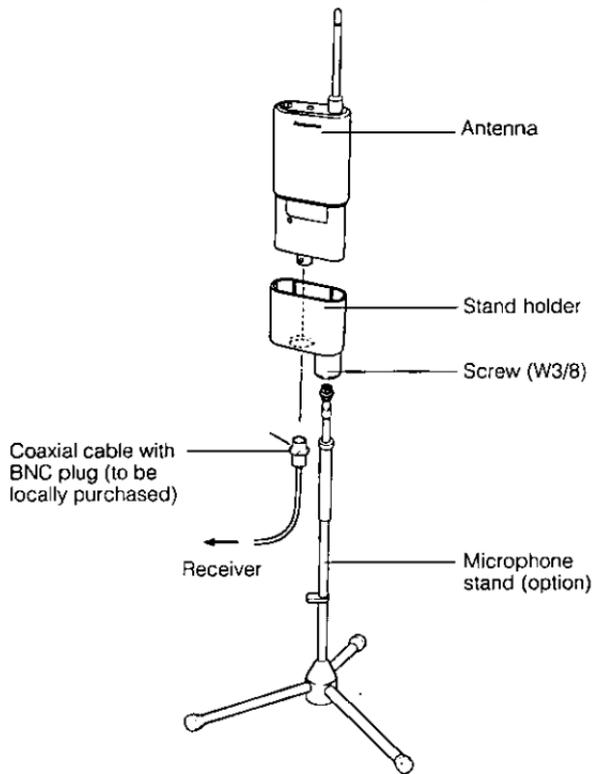
1. Coaxial cover screw
2. Coaxial cover
3. Lead screw (hot)
4. Hex nut guide rib
5. BNC receptacle (for case)
6. Hex nut
7. Coaxial cable braided wire screw
8. Screw hole for ceiling mounting kit
9. Power indicator (red)
10. Case
11. Stand holder

INSTALLATION

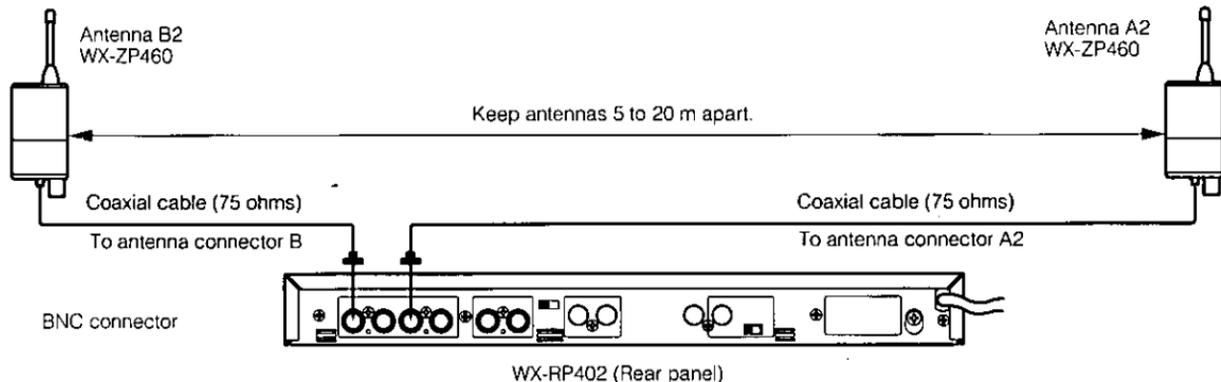
■ Mounting on Wall



■ Mounting on Floor



CONNECTION



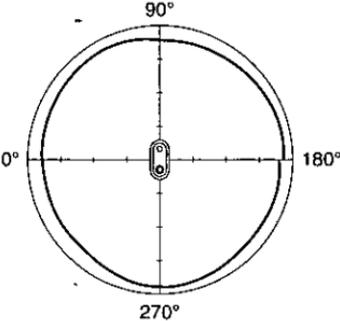
■ Antenna Sensitivity Setting

For details, refer to the Instruction Manual for the Wireless Receivers WX-RP401, WX-RP402, WX-RP404.

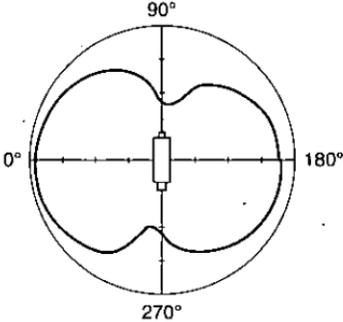
Place of use (example)		School ground	Gymnasium	Classroom	Conference room	Banquet room
Operating range (Distance from antenna to microphone)	Max.	100m	30m	20m	15m	20m
	Min.	15m	3m	2m	2m	2m
Recommended coaxial cable (80 m max.)		RG-6/U	RG-6/U	RG-6/U	RG-6/U	RG-6/U

ANTENNA DIRECTIVITY

- Vertical Directivity of Vertically Mounted Antenna



- Horizontal Directivity of Vertically Mounted Antenna



SPECIFICATIONS

Input Frequency:	797 to 803 MHz
Output Frequency:	260 MHz band
Local Oscillator Frequency:	550 MHz band
Local Oscillator Input Frequency:	45 MHz band (supplied through input coaxial cable)
Output VSWR:	2 or less
Output Impedance:	75 ohms
Source Voltage:	12 VDC (supplied through input coaxial cable)
Power Consumption:	Approx. 60 mA
Practical Operating Temperature:	14°F - 122°F (-10°C to +50°C)
Dimensions:	2-13/16" x 9" x 1-1/16" [72 (W) x 228 (H) x 27 (D) mm]
Weight:	0.3 lbs. (135 g) (without stand holder)

Weights and dimensions indicated are approximate.
Specifications are subject to change without notice.

ACCESSORIES

Stand Holder	1 pc.
Main body Fixing Screw	1 pc.
Stand Holder Fixing Screw	1 pc.
Wall Mounting Angle	1 pc.

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