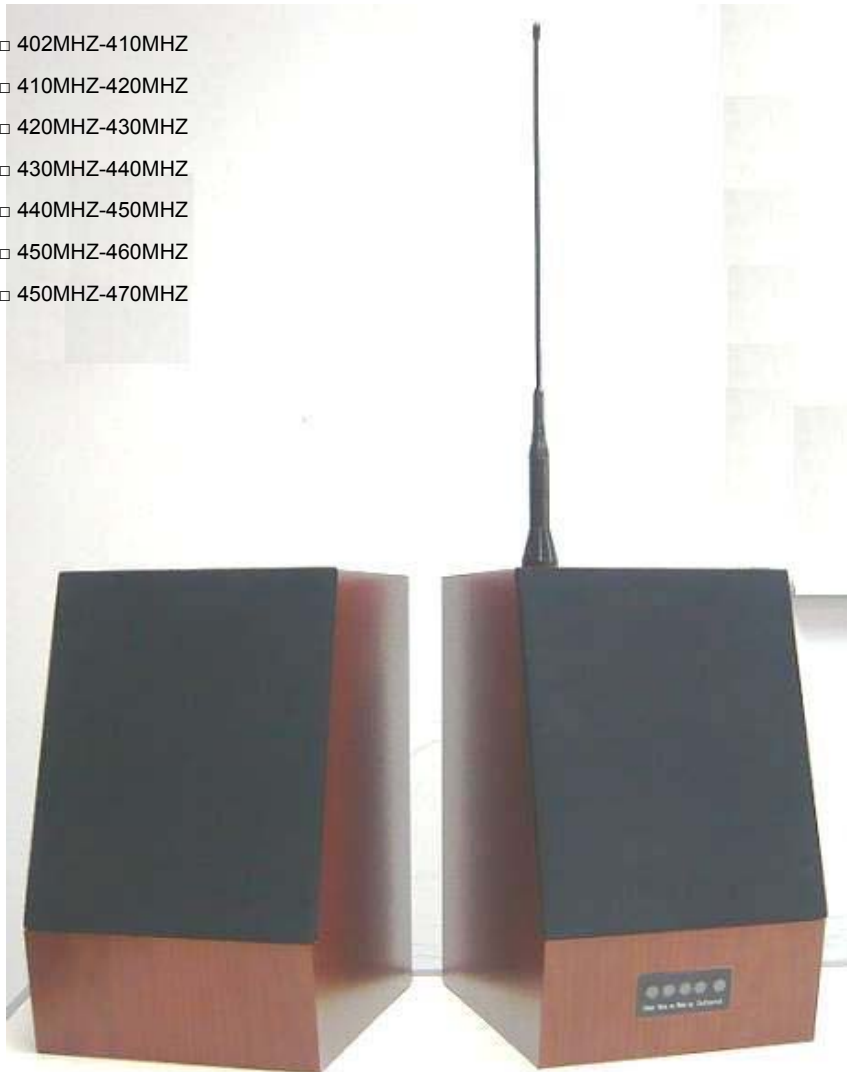


# Instruction Manual

## Digital Broadcast System 15W+15W Receiver

- 402MHZ-410MHZ
- 410MHZ-420MHZ
- 420MHZ-430MHZ
- 430MHZ-440MHZ
- 440MHZ-450MHZ
- 450MHZ-460MHZ
- 450MHZ-470MHZ



Dear Customer,

Thanks for purchasing the Quantun Wireless Digital Broadcast System.

We deeply appreciate your choice of buying our DBS. We believe this product is going to make a positive impact in the functionality and productivity of your company.

Our Digital Broadcast System is one of our RF solutions technologically different from any other existing broadcast systems in the market. The biggest difference is that it is a “Wireless System”, meaning there is no need to install any wires between the “Broadcast Console” & “Remote Terminals”. Additionally, multiple audio sources are fully integrated to the DBS console simplifying operation and saving the cost of the additional equipment that may be required on standard broadcast systems.

Thanks again for your trust in our products. It gives us the motivation to keep developing quality innovative products to successfully satisfy your broadcast needs. We strongly recommend you fully read the operational manual prior to use the equipment. It will greatly help you to understand the features and safe operating parameters of our system.

## **Cautions for Operation**

The Receiver you bought is a high technology product, please operate with care. For a longer useful life, we offer the following advice:.

- A 3 Pins AC Power plug is used in the unit. It has a GND pin for protection. Do not remove it.
- There are High Voltages inside the unit. To avoid any damage or accidents do not try to open the unit.
- Do not install the unit to direct exposure to sunlight, This will limit the service life on the unit.
- Please keep the unit away from magnetic fields.
- To protect this unit from lightning strike, the antenna should be properly installed and protected, with a ground connection and lighting arrestor, if required

# Content

I. Unpacking	4
II. Features	4
III. Parts Identification	5
IV. Assembly and Installation	6-7
V. Operation Guide	8
VI. Read & Write Operation	
VII. Tech Specifications	9
VIII. Trouble Shooting	9
IX. Cautions for Warranty	10
X. Memo	10
XI. Warranty Card	11


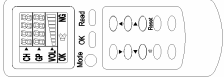
## I. Unpacking

Please take the receiver out from the packing box carefully and make sure there are no items left in the box prior to discard it. If you detect any loss or damage caused during shipping, please feel free to submit your claim sheet to your reseller without hesitation.

### Accessories

No	Item	Qty	Illustration
1	Bracket	1	
2	Instruction Manual	1	

### Optional Parts

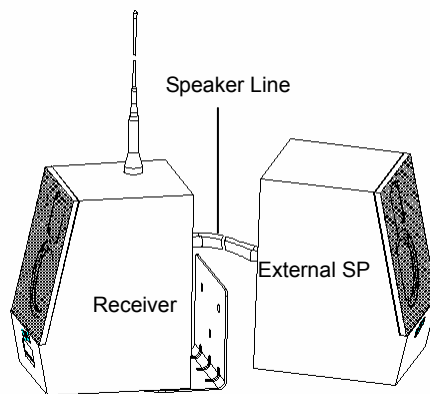
No	Item	Qty	Illustration
1	Antenna	1	
2	Remote Control	1	

## II. Features

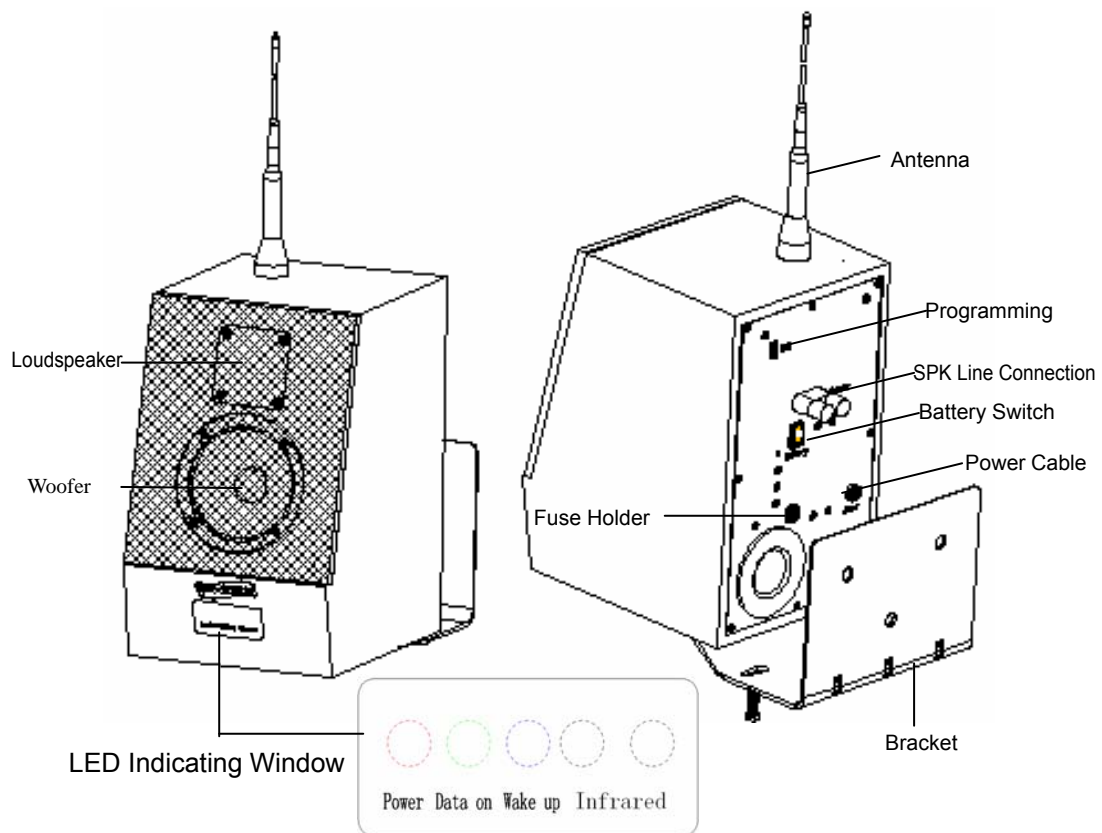
- (1). Remote Control
- (2). Attractive Design
- (3). Maximum Audio Power output: 30 w over 4 Ohm speaker, or two 15 watt with satellite speaker option.
- (4). Auto Power saving when in Standby mode.
- (5). Internally Switched power supply source
- (6). Mute the unit by remote control
- (7). Reset the unit by remote control
- (8). Frequency Agile
- (9). Can be used with One 4 Ohm Speaker or two 8 Ohm units.
- (10). Wireless Microphone

### III. Parts Identification

#### 1. Receiver +External Speaker



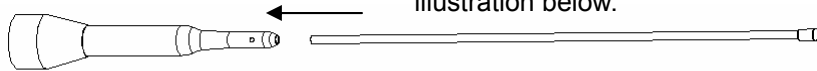
#### 2. Receiver Appearance



## IV. Assembly and Installation

### 1. Antenna Removing & Assembly

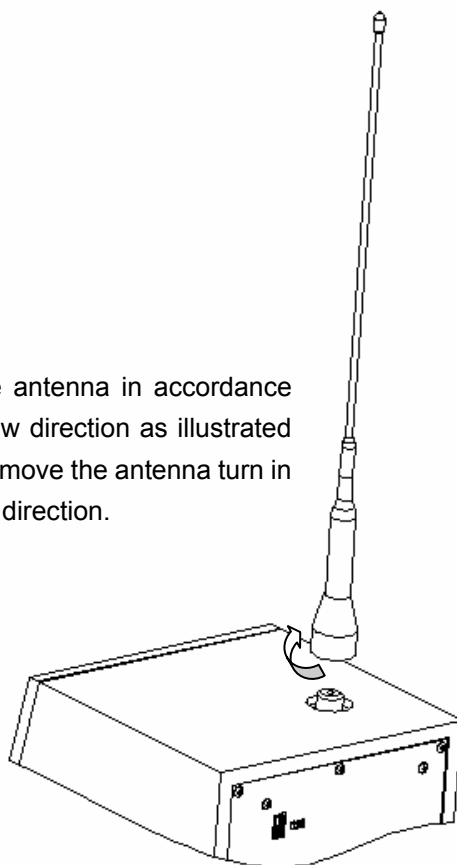
(1) . Assemble the antenna as indicated in illustration below.



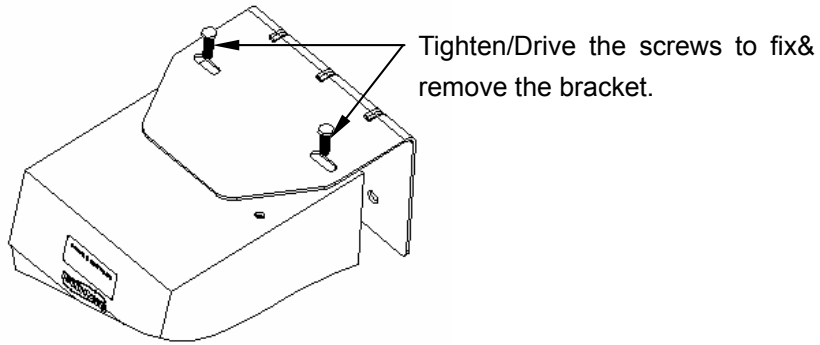
(2). Tighten the screws to assemble the antenna.



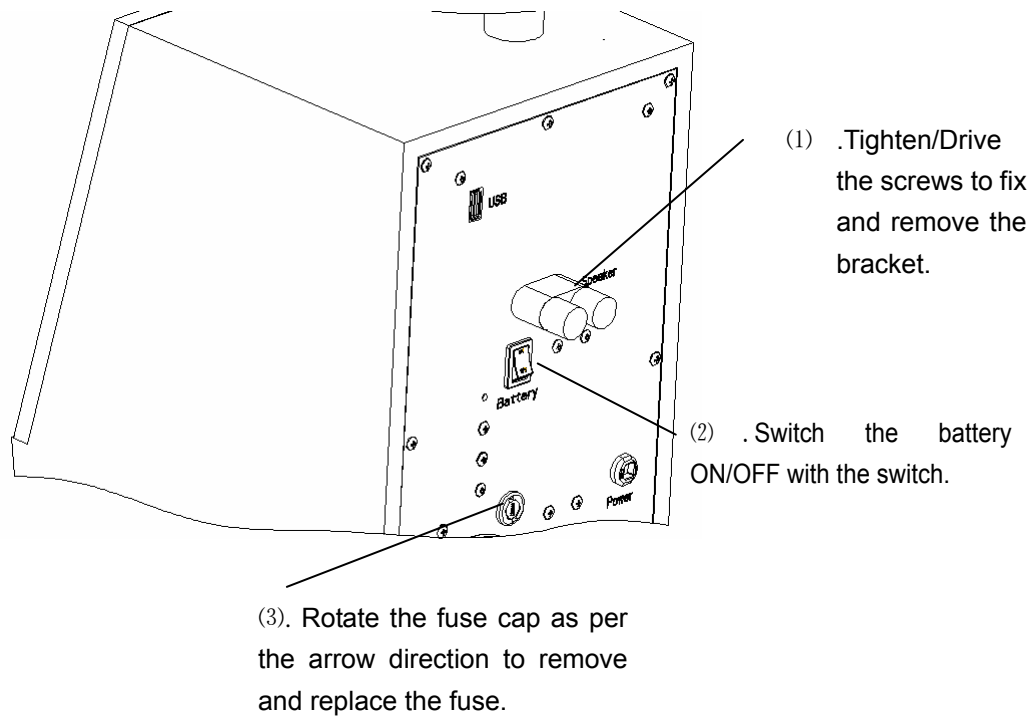
(3). Install the antenna in accordance with the arrow direction as illustrated below, to remove the antenna turn in the opposite direction.



## 2. Bracket Assembly and Installation



## 3. Fuse /SP Line Replacing/Battery Switch





## V. Operation Guide

1. Unit Switched On, "POWER" (Red LED) will lit solid bright.
2. Signal Received, "DATA ON" (Green LED) will lit solid bright.
3. Standby, "WAKE UP" (Blue LED) will lit solid bright. (the unit will go to sleep when no signal is received from the DBS for 2 or more minutes)
4. How to Program the new Frequencies in the Receiver.
  - a. Connect Receiver to PC with the programmable cable, and have the Receiver Powered.
  - b. Run the provided programming software.
  - c. In the programming window, click "Read" to read out frequency of each channel.
  - d. In programming window, Enter the required frequency, click "Write" to save it.

**VI. Read& Write Operation** (Keep the remote control 1- 6 meters away and pointing the receiver window you are trying to program).

1. Channel Selecting: Pressing "CH" under "Mode", pressing "▲" "▼" to select the channel (can be set from 0 to 9, valid channels are from 1 to 8) then press "OK". LCD will display "OK" or "NG" to indicate whether the implementation has been successful or not.
2. Group Selecting: Pressing "GP" under "Mode", then press "▲" "▼" "◀" "▶" to set the Group ID (can be set from 0 to 9999, valid Groups range is from 1 to 500) then press "OK". The LCD will display "OK" or "NG" to indicate whether the implementation was successful or not.
3. Volume Control: Pressing "VOL" under "Mode", then "▲" "▼" to increase or reduce the volume level ( level 1- 9). The LCD will display "OK" or "NG" to indicate whether the implementation was successful or not, as well as the "current volume level".
4. Mute: Pressing "MUTE", Receiver goes to "Silent" if it's not in "Mute" mode, LCD will display "🔇"; to exit "Silent" by pressing again, "🔇" will disappear.
5. Data Retrieving: Pressing "Read" will get the data from the Receiver, LCD will display "OK" or "NG" to indicate whether the implementation of "Read" was successful or not. If "OK", the LCD will display "CH"、"GP"、"VOL" of the Receiver. It is always required to perform "Read" prior to change or reprogram the receiver.
6. Reset: hold down "Reset" button for 3 Sec to reset the unit.

## VII. Tech Specifications

1. Power Supply: 110VAC/60HZ and/or 12VDC
2. Modulation Method: GFSK
3. Operating Frequency: 402~430MHz
4. Channel Bandwidth: 100 KHZ
5. Channel No: 8 CH
6. Sensitivity:  $\leq -110\text{dBm}$
7. Transmission Data Speed: 38.4kbps
8. Modulation Deviation: 15KHz
9. Working Temperature:  $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
10. Working Humidity: 10%~90% Relative Humidity No condensation
11. Dimension: L234mm\*W185mm\*H300mm (the size of Antenna & Bracket are not included)

## VIII. Troubleshooting

Problems	Solutions
Can't be powered on	<ol style="list-style-type: none"> <li>1 Please check if the AC Power Cable is properly connected.</li> <li>2. Please check if the fuse is OK and making good contact</li> </ol>
Can't read/write data	Please check if the unit in Normal condition.
No Signals received	<ol style="list-style-type: none"> <li>1. Use the remote control to check the data of the Receiver, check if the Channel is the same of the DBS and the Groups ID is active.</li> <li>2. Please check if the Antenna is properly connected.</li> </ol>
No audio output signal	<ol style="list-style-type: none"> <li>1. Using the remote control to verify if the unit is in "Mute" mode.)</li> <li>2. Please check if the Speaker line is properly connected.</li> </ol>

**IX. Cautious for Warranty**

1. We offer a 1 year warranty period.
2. If during this warranty period the product you have bought proves defective due to improper parts or manufacturing, our authorized Service Station or authorized Service Reseller in your country will repair or replace it at no charge. Our 1 year limited warranty does not cover:
  - A. Damages caused by natural disaster (water, fire, earthquake, lightning), or any improper use that is beyond the control of our company.
  - B. Problems and malfunctions caused by removing disassembly, repairs done by user himself or modifications conducted by any non-authorized personal.
  - C. Any modification or changes to upgrade the product from its normal purpose as described in the Operating Manual without the prior written consent of our company.
  - D. Problems and malfunctions caused by improper settings or Drivers installations done by the user.
  - E. Identification Tag or type or serial number or warranty card of the product has been altered, deleted, removed or made illegible.
  - F. Problems and malfunctions caused by any other improper operation..
3. A very fast servicing & repairing is offered by our dealer as soon as the receipt of your defective product.
4. Please keep in your records the Commercial Invoice & Warranty Card together with the unit at the time it is sent to Service Station Repair and Service. (the purchasing date will be counted from the date of ex-factory if the Commercial Invoice and Warranty Card can't be provided by customer)

Memo

**XI. Digital Broadcast System Warranty Card (Customer's Receipt)**

Thanks for purchasing our Digital Broadcast System, in the event that any after-sales services are needed, you are required to contact the Reseller from whom it was purchased or a member of our authorized Service Network either via Website or Telephone.

1. Please visit our website given below:

[www.quantunelectronics.com](http://www.quantunelectronics.com)

2. Please reach our Technical Support Service at the number given below:

Tele: 954-651-6300

Purchasing Date: \_\_\_\_\_Y\_\_\_\_\_M\_\_\_\_\_D

Dealer Tele: \_\_\_\_\_

Dealer Address: \_\_\_\_\_

Sales person: \_\_\_\_\_

\*Above blanks are supposed to be completed by the Reseller.

\*Please make sure the above said purchasing date is in accord with the date on the invoice.

\* "Warranty Card-Customer's Receipt" kept by customer himself.

## Digital Broadcast System Warrant Card (Reseller's Return Receipt)

<b>User Information:</b>	
*Name: _____	<input type="checkbox"/> MS      Company: _____ <input type="checkbox"/> MR
*Tele: _____	*Cell: _____
*E-mail: _____	
*Province: _____	Address: _____
Postal Code: _____	
<p>*For the customer's rights &amp; interests to be protected, above*marked items are required to be completed after confirmation with customer.</p>	
<b>Reseller Information:</b> Company: _____ Salesperson: _____ Tele: _____ - _____ Ext: _____	
Purchasing Date: _____Y_____M_____D	Reseller:

\*Above blanks are supposed to be completed by the Reseller.

\*This "Warranty Card(Reseller's Return Receipt) is required to be filled out & cut off by Dealer & has to be shipped to Quantun within 15 days from the time of purchasing.

[HTTP://WWW.QUANTUNELECTRONICS.COM](http://www.quantunelectronics.com)



TEL: 954-651-6300      FAX: 954-651-6311