



**Powerwerx**  
23695 Via Del Rio  
Yorba Linda, CA 92887  
Phone: 714-674-0073  
Fax: 714-674-4949  
www.powerwerx.com

## Powerwerx Limited Warranty Policy

This Wouxun radio is warranted against failure due to defects in workmanship or materials for 12 months from the date of purchase from Powerwerx or an authorized Powerwerx dealer. The included radio battery and battery charger are warranted against failure due to defects in workmanship or materials for 6 months from the date of purchase from Powerwerx or an authorized Powerwerx dealer. If purchased from an authorized Powerwerx dealer the item must be returned with a copy of the original sales receipt or proof of purchase. Warranty does not include other accessories, antennas or knobs. Warranty does not cover damage caused by abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation, alteration, moisture, water, lightning, or other incidence of excessive voltage or current. If failure occurs within this period, return the radio to Powerwerx at your shipping expense with a full explanation, return address and necessary proof of purchase. The device or accessory will be repaired or replaced, at our option, without charge, and returned to you at our shipping expense. Repaired or replaced items are warranted for the remainder of the original warranty period. Powerwerx shall have no liability or responsibility to customer or any other person or entity with respect to any liability, loss, or damage.

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# Powerwerx DB-16X Dual-Band Two-Way Radio Instruction Sheet

Congratulations on buying the model DB-16X Dual-band radio which is ideal for restaurants, retail, schools and the hospitality industries. This two-way radio offers many features that can be dealer programmed depending on your requirements.

### DB-16X HANDHELD FEATURES:

- FCC 2013 Narrowband Compliant w/ 2.5 KHz Channel step
- Frequency Range: Dual-band 136-174 / 406-512 MHz
- 16 Channels (pre-programmed w/ 14 UHF & 2 VHF Channels)
- Power Output: VHF: 5W High / 1W Low UHF: 4W High / 1W Low
- 16 Hours of operation: (85% Standby / 10% RX / 5% TX on low power)
- Channel Number and Low Battery Voice Announcement
- Built in Flashlight, VOX Operation

## Getting Started

### SUPPLIED IN THE BOX:

- FM Dual-band Transceiver
- Extended life Li-ion battery pack (1700 mAh)
- Dual-band Antenna
- Belt Clip
- Desktop Rapid Charger (charges in 1~3.5 hours)
- Handstrap

### INSTALLING THE BATTERY AND ANTENNA

First, match the guides on the bottom of the battery pack with the back side bottom of the radio. Press on the battery as it will latch as you press downward. (Press down on each side of the battery to release). Screw in the supplied antenna into the top of the radio.

### TURNING RADIO ON / OFF

Turn the top knob clockwise to turn radio ON. Turn this same knob counter-clockwise to turn the radio OFF.

### SPEAKER VOLUME ADJUSTMENT

Turn the top knob clockwise to adjust the radio volume higher. Turn this same knob counter-clockwise to adjust the radio volume lower.

### CHANNEL SELECTION

Turn the top mounted channel selector to the desired channel. Built-in voice will announce the channel number as you rotate this knob.

### PTT - PUSH TO TALK BUTTON

Press this key to transmit and release to listen.

### FLASHLIGHT

Momentary press the bottom side monitor key (short press) to turn ON/OFF Flashlight feature.

### MONITOR KEY

Press and hold the monitor key for 2 seconds to turn ON or OFF the radio squelch to listen without the tone squelch function.

## Getting Started (Continued)

### HI / LOW POWER SELECTION

Press and hold PTT (transmit) button and then momentary press the bottom side monitor key to select HI / LOW Power. 2 LED flashes is Hi power, 1 flash is low power. Changing channels puts power selection back to the default.

### BATTERY LEVEL (CAPACITY) DISPLAY

Turn the radio OFF. Wait 2 seconds, then turn radio ON.

- Green light flashes (4) times.....Battery is full (80-100%)
- Green light flashes (3) times.....Battery is medium (60-80%)
- Green light flashes (2) times.....Battery is low (40-60%)
- Green light flashes (1) time.....Battery needs recharging (20-40%)
- Red light flashes (4) times.....Battery empty (0-20%) No Tx possible

### BATTERY CHARGER OPERATION

Connect to AC power cord into the back of the charging base. Plug in the AC cord into a standard wall outlet. Place the radio or battery into the charger cup. Please refer to the battery charger status lights below.

Flashing Red Light..... Deep Battery Charging (3 1/2 hours)  
 Solid Red Light..... Regular Battery Charging (1/2 to 3 hours)  
 Green Light..... Battery Fully Charged - Ready to use

### PRE-PROGRAMMED CHANNELS

Your radio is pre-programmed with (14) UHF & (2) VHF channels. Powerwerx/Wouxun radios operate on business radio frequencies that are regulated by the FCC. In order to transmit on these frequencies, you are required to have a license issued by the FCC. Visit: [http://wireless.fcc.gov/services/index.htm?job=service\\_home&id=industrial\\_business](http://wireless.fcc.gov/services/index.htm?job=service_home&id=industrial_business)

Your dealer can also re-program your radio's channels with different frequencies and features as needed.

### PRE-PROGRAMMED CHANNELS

Channel 1	464.550 MHz	67.0 Tone	1W	Business Ch. CLS-1 (Narrow 2.5 KHz)
Channel 2	467.925 MHz	67.0 Tone	1W	Business Ch. CLS-2 (Narrow 2.5 KHz)
Channel 3	467.850 MHz	67.0 Tone	1W	Business Ch. CLS-3 (Narrow 2.5 KHz)
Channel 4	467.875 MHz	67.0 Tone	1W	Business Ch. CLS-4 (Narrow 2.5 KHz)
Channel 5	469.5125 MHz	77.0 Tone	1W	Business Ch. CLS-54 (Narrow 2.5 KHz)
Channel 6	466.3125 MHz	110.9 Tone	1W	Business Ch. CLS-45 (Narrow 2.5 KHz)
Channel 7	466.3375 MHz	110.9 Tone	1W	Business Ch. CLS-46 (Narrow 2.5 KHz)
Channel 8	466.3625 MHz	110.9 Tone	1W	Business Ch. CLS-47 (Narrow 2.5 KHz)
Channel 9	467.7875 MHz	110.9 Tone	1W	Business Ch. CLS-48 (Narrow 2.5 KHz)
Channel 10	467.8375 MHz	110.9 Tone	4W	Business Ch. CLS-49 (Narrow 2.5 KHz)
Channel 11	467.8625 MHz	110.9 Tone	4W	Business Ch. CLS-50 (Narrow 2.5 KHz)
Channel 12	467.8875 MHz	110.9 Tone	4W	Business Ch. CLS-51 (Narrow 2.5 KHz)
Channel 13	467.9125 MHz	110.9 Tone	4W	Business Ch. CLS-52 (Narrow 2.5 KHz)
Channel 14	469.4875 MHz	110.9 Tone	4W	Business Ch. CLS-53 (Narrow 2.5 KHz)
Channel 15	154.570 MHz	88.5 Tone	1W	VHF Business Ch. (Narrow 2.5 KHz)
Channel 16	154.600 MHz	88.5 Tone	1W	VHF Business Ch. (Narrow 2.5 KHz)

## Optional Accessories

A wide variety of optional accessories are available for your DB-16X.

Visit our website to learn more: [www.powerwerx.com/wouxun-radios](http://www.powerwerx.com/wouxun-radios)

This VHF/UHF Dual-band handheld is FCC 2013 Narrow band compliant. Please note the following default TX modulation settings for the DB-16X.

### VHF BAND

136.000-143.995 MHz.....Narrow Band (2.5 KHz) TX, Wide or Narrow RX by channel  
 144.000-148.000 MHz.....Amateur Band (5.0 KHz) or Narrow band (2.5 KHz) RX/TX  
 148.005-174.000 MHz.....Narrow Band (2.5 KHz) TX, Wide or Narrow RX by channel

### UHF BAND

400.000-429.995 MHz.....Narrow Band (2.5 KHz) TX, Wide or Narrow RX by channel  
 430.000-450.000 MHz.....Amateur Band (5.0 KHz) or Narrow band (2.5 KHz) RX/TX  
 450.005-470.000 MHz.....Narrow Band (2.5 KHz) TX, Wide or Narrow RX by channel  
 470.005-512.000 MHz.....Wide Band (5.0 KHz) or Narrow band (2.5 KHz) RX/TX

## Radio Diagram

