

# WB505R

## DECT7 WIRELESS BASE STATION 5-PERSON RADIO TRANSMIT

Connect up to five Firecom 50- or 500-Series wireless headsets in full-duplex communication on the apparatus and the fire scene with up to 1,600 feet of range from the base station.

Remotely activate radio PTT or select from two channels with headset dome controls on a connected DECT7 wireless headset.

The W505R is USB-programmable for custom configurations and can be powered from the apparatus or with the included wall-charger.



Simple Controls and Bright LEDs



External antenna included



Accessory antenna USB port



DC power Radio transmit Intercom

## FEATURES



### WIRELESS DECT7 COMMUNICATION

Full duplex crew communication for up to five Firecom 500-Series wireless headsets. Integrates with the 5000D Series Digital Intercom for a complete apparatus communication solution.



### WIDEBAND AUDIO

Wireless DECT7 communications transmit in high-definition, wideband audio for greater voice clarity and integration with voice-activated control systems. This feature is defeatable when narrowband communication is necessary.



### MULTI-CHANNEL SYSTEM

Select from two channels remotely via Firecom 500-Series wireless headset controls.



### BROADCAST MODE

Connect up to 100 Firecom 500-Series wireless headset users in power-saving broadcast mode for training or educational settings. Transition to talk mode temporarily with a single button.



### DUAL ANTENNA DESIGN

Internal and external antennas provide diversity switching for best signal acquisition. Place the WB505R and an optional external antenna in different locations to increase the flexibility of custom installations.



### DECT7 ENCRYPTION

The WB505R uses the latest digital encryption to ensure privacy.



### PROXIMITY PAIRING

For an additional layer of security, the WB505R will only pair with DECT7 units in close proximity.



### USB PROGRAMMABLE

Use your Windows PC to configure the WB505R Wireless Base Station through its built-in USB port. Customize each feature and setting for your individual application.

# WB505R

## DECT7 WIRELESS BASE STATION 5-PERSON RADIO TRANSMIT



### FEATURES

#### WIRELESS DECT7 COMMUNICATIONS

Full-duplex crew communication in the apparatus and on the fire scene  
Connects up to five (5) Firecom DECT6 or DECT7 wireless headsets  
Up to 1,600 line-of-sight range to the wireless base station  
Interference-free communication  
Transmissions are digitally-encrypted for increased security and privacy

#### WIDEBAND AUDIO

High-definition, wideband transmission format  
Improved voice clarity for integration with voice-activated control systems  
Defeatable when narrowband communication is required

#### BROADCAST MODE

Connect up to 100 wireless headsets in this listen-only, power-saving mode  
Transition to talk mode momentarily by pressing the headset PTT button

#### TWO-CHANNEL SYSTEM

Select from two separate channels for multiple teams  
Remote channel selection via paired Firecom 500-Series wireless headsets

#### DUAL-ANTENNA DESIGN

Internal and optional external antennas  
Design provides diversity switching for best signal acquisition  
Optimize range and performance for custom installations

#### DECT7 DIGITAL ENCRYPTION

35-bit DECT digital encryption ensures security and privacy

#### PROXIMITY PAIRING

For additional security, WB505R only pairs with DECT7 units in close proximity

#### USB PROGRAMMABLE

Create your own custom feature set using the Sonetics Configuration Utility  
(Windows PC only)



Magnetic



Permanent

#### ACCESSORY ANTENNAS

Optional magnetic and permanent mount accessory antennas increase the flexibility of custom installations.

### SPECIFICATIONS

#### COMMON DECT SPECIFICATIONS

Carrier Spacing: 1.724 MHz  
Time Slots: 2 x 12 (up and down stream)  
Channel Allocation: Dynamic  
Encryption: DECT Standard Cipher with 35-bit initialization vector  
Audio Bandwidth: 300 Hz to 3.4 kHz, Narrow Band, G.726 compression  
Audio Bandwidth: 50 Hz to 7 kHz, Wide Band, G.722 compression

#### REGION 1 SPECIFICATIONS

Authorized for use in: Canada, USA  
Frequency Bandwidth: 1919.808 MHz to 1930.176 MHz  
Number of Carriers: 5  
Average Output Power: 4 mW  
Maximum Output Power: 100 mW  
Range (line of sight): 1,600 feet maximum

#### PHYSICAL

Length: 5.70in / 145mm  
Width: 2.72in / 69mm (not including external antenna)  
Height: 1.2in / 31mm  
Weight: 4.8oz / 136g

#### POWER

Voltage Input: 5 VDC to 16 VDC  
Maximum Current Input: 400 mA @ 5V, 150mA @ 12V

#### ENVIRONMENTAL

IP Rating: IP-20  
Operating temperature -40°F (-40°C) to +140°F (+60°C)  
Storage temperature -40°F (-40°C) to +140°F (+60°C)

#### FCC

FCC ID: V9N950325700V1  
FCC Part 15: All Models

#### INDUSTRY CANADA

IC UPN: 7895A-950325700

#### MIL SPEC

Humidity: MIL-STD 810F and 810G  
Temperature Shock: MIL-STD 810F and 810G

#### SAE

Vibration: J1455 Sec. 4.9  
Conducted Immunity: J1113-11  
Electrostatic Discharge: J1113-13  
Radiated Emissions: CISPR 25  
Radiated Immunity: ISO 11452-2

#### ISO

Conducted Transients per 7637-2