WB505R

DECT7 WIRELESS BASE STATION 5-PERSON RADIO TRANSMIT

Simple Controls and Bright LEDs

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.

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**

DECT7 wireless

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