

# **Sonetics** CORPORATION

## Wireless-Com

Multi-user wireless,  
full-duplex  
communications.



- Industrial
- High noise
- Marine
- Military
- Search & Rescue
- Training
- Highways
- Construction
- Ground Support
- TV production
- HAZMAT Control
- Decontamination

Sonetics' **Wireless-Com** headset systems are ideal when teams need to communicate clearly and efficiently, even in high noise and hazardous environments. Users have greater freedom to move around and are not restricted by wires or having to push buttons. Having both hands free allows them to carry out their tasks with greater safety and efficiency.



Compact portable power supply with 20 hours battery life for use in remote areas.

talk over the radio, simply join in the conference and communicate clearly and concisely. Downtime is reduced, whilst safety and efficiency are improved.

With **Wireless-Com** headsets, conventional two-way radios can easily be integrated into the intercom system, therefore allowing your intercom system to expand its communication

boundaries to those of the radio system. Systems can be configured to allow one or all users to access the two-way radio by a PTT (press-to-talk) button located on the headsets. With a typical eight-user wireless intercom system, only one two-way radio needs to be connected to the system. Every user (if required) can then access the radio via the PTT on their headset. No need for every user to have their own radio, therefore reducing running costs.

If high noise is not an issue, then a wide range of lightweight non-attenuating headsets can be connected to the system by connecting to one of the **Wireless-Com** belt packs.

## Wireless-Com full-duplex intercom headsets offer the users crystal clear, hands-free communications in the most demanding environments.

The high noise headsets offer excellent hearing protection with crystal clear voice communications whilst virtually eliminating all background noise. With conventional two-way radio systems only one person can talk at a time, whilst all the other users can only listen. In an emergency this can compromise safety. With the **Wireless-Com** headset systems, all users can talk in a conference together, greatly improving everyone's personal safety and efficiency. No need to wait your turn to



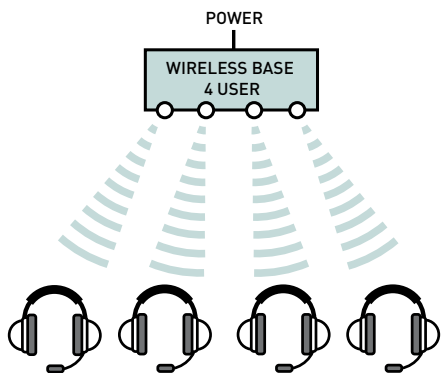
- Wireless headsets allow greater freedom which increases efficiency
- Full-duplex conference between users to improve safety and productivity
- High attenuation headsets improve communications in high noise environments
- Wireless belt packs allow wired headsets to be used to suit the environment you are in
- Adjustable 'mic gate' allows headsets to be fine tuned to suit different noise environments
- Simple two-way radio integration allows compatibility to a radio network

- Throat microphones can be used to allow use when using facemasks or HAZMAT clothing
- Can be powered by 12 volt battery packs or in-car chargers to allow use in remote areas
- Fully re-chargeable headsets and belt packs keep running costs low
- Once headsets are paired to the wireless base you do not have to re-pair each time the system is turned on/off

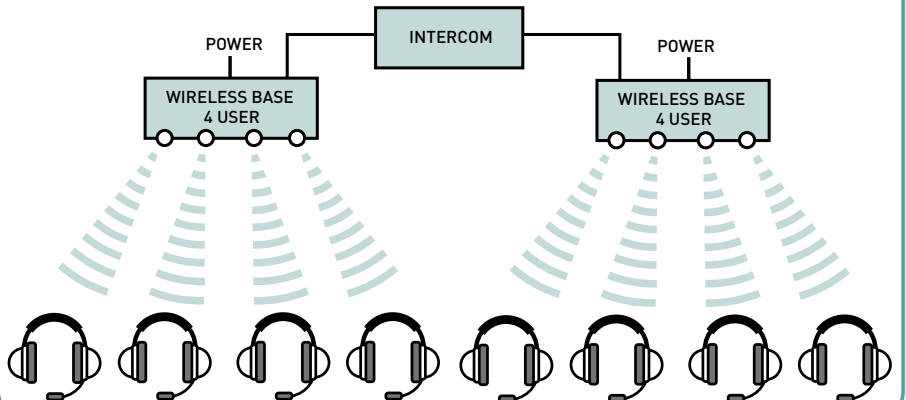


# System Configurations (many more are possible)

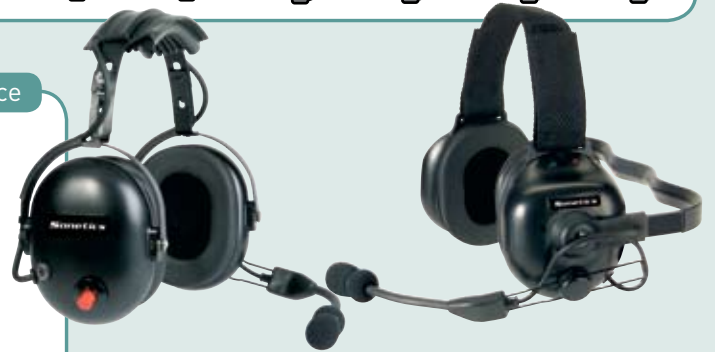
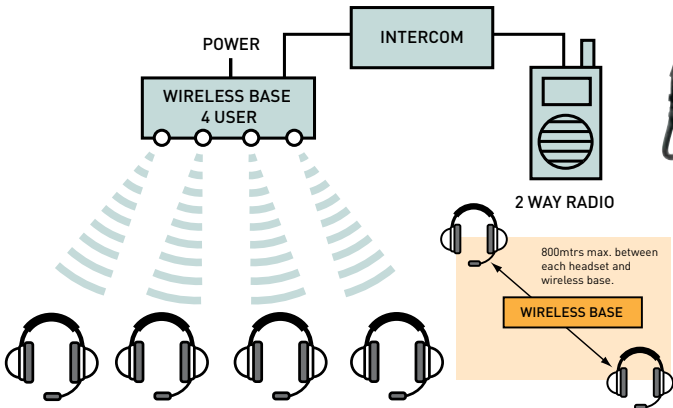
Typical 4 user configuration



Typical 8 user configuration



Typical 4 user configuration with two-way radio interface



## FHW-10 Headset

Over-head style wireless radio transmit headset. Noise-canceling electret microphone, flex-style boom, adjustable volume control, liquid foam ear seals (PTT located on dome.)

## UHW-10/20 Headset

Under-helmet radio transmit headset. Adjustable volume, noise-canceling electret microphone, adjustable headstrap, flex-style boom, comfortable liquid foam ear seals (PTT located on dome.)



## Belt Pack

Now you can communicate wirelessly with Wireless-Com's wired headsets. With our wireless belt pack, Wireless-Com headsets can communicate wirelessly. Allows user to wear facemasks or helmets along with lightweight headsets or throat microphones.



## SC8 Lightweight headset

A lightweight rugged single-ear headset for low noise environments.



## Multi-user wireless base

Multiple headset base station accommodates up to four UHW/FHW series wireless headsets.

## SC76332 MSA CC Supreme digital electronic headset

MSA Supreme headsets enable the user to hear ambient sounds whilst still protecting their hearing and communicate in the conference.



## Single-user wireless base

Single headset base station accommodates a single UHW/FHW series radio transmit wireless headset with PTT operation.

# Radio Intercoms

## 110/210/310/410 Radio Intercom Interface



The 110 radio intercom allows one four user wireless base to integrate one two-way radio allowing all four users (if required) to communicate over the two-way radio as well as in a conference.



The 210 intercom allows two four user wireless bases to integrate one two-way radio allowing all eight users (if required) to communicate over the two-way radio.



## 3010R/3020R Series Intercoms

The 3010R/3020R intercoms allow you to expand your **Wireless-Com** systems to enable either one or two two-way radios to integrate into the duplex intercom system. Up to six wireless bases can connect to the intercom with the facility to enable one user, i.e. the commander, to have priority over the two-way radio when using the PTT (press-to-talk) on the headset. Sophisticated electronics provide clear and complete communications without interference from background noise, while ensuring constant, secure communications with all users.

On a typical eight user **Wireless-Com** duplex system only one two-way radio needs to be connected to an intercom to allow all eight users to utilise the features of the radio. The PTT located on either the headset or the belt pack enables each user (if required) to have a wireless link to transmit over the radio. When one person activates the PTT all the other users can hear the communication. Any incoming transmission can be heard by all users.



Local dealer:

## Questions and answers

### What is Full Duplex?

It allows conversation in both directions at the same time, just like having a conversation on the telephone.

### Is the Wireless-Com full duplex?

Yes, all the users can talk in a conference together.

### Do you need to push a button to talk to someone else in the group?

No, it is completely hands-free.

### Can I incorporate my two-way radio into the duplex conference?

Yes, by using one of the intercoms and a radio interface lead.

### How do I press the PTT on the radio?

By pressing the PTT on the headset it activates the radio PTT wirelessly.

### Can the Wireless-Com be used in the middle of a forest or somewhere remote without mains power?

Yes, by using a portable rechargeable battery back or using an in-car 12 volt adaptor

### Can I use the Wireless-Com when wearing a face mask or full-face helmet?

Yes, by connecting a wide variety of lightweight headsets or throat microphones to the wireless belt pack.

## Headset Specifications

### RF

- Range: 800m open field.
- Digital encoding for secured communications.
- Interference free digital communications for up to 120 headsets operating in close proximity
- Immunity to interference from other communication devices operating in the entire frequency spectrum from 30 MHz-18 GHz.

### Environmental

- Operating temperature -10 to +70°C
- Storage temperature -25 to +85°C
- Meets standards SAE J1455 and J1113
- Chemical resistance corrosion and humidity per MIL-STD-810

### CE Compliance

EN301 406 V1.5.1  
EN 489-6 V1.3.1  
IEC 60950-1:2005  
EN 60950-1:2006

### Power

- 3.7V rechargeable lithium ion battery
- 8-10 hours of talk time
- Cycle life 500 cycles minimum
- Over voltage, under voltage, over current and over temperature protection
- Charge source 12V nominal (9-16v), 0.25A minimum
- Charge time 3 hours from deeply discharged state

### Wireless Base Station Specifications Electrical

- Power: Nominal 12V (11-16V)
- Current draw: 45mA average, 80mA peak
- Reverse voltage protection
- Immune to ESD and transients per SAE standard J1113
- EMC compatible per standard J1113

### Mechanical

- Dimensions: 19.5cm L x 6.6cm W x 2.9 H
- Weight: 4.24 Oz (0.265Lb)



### UK Distributor

Talking Headsets Ltd, Woodlands,  
The Bridle Lane, Hambrook, Chichester.  
West Sussex, UK, PO18 8UG

Tel: +44 (0) 1243 573226  
Fax: +44 (0) 1243 574318

Email: [info@talkingheadsets.co.uk](mailto:info@talkingheadsets.co.uk)

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