# WS-HOST / WS-DIAL

---

## 925~928MHz Wireless Paging Customer Waiting System

---



**Version History**

| Version | Date | Changes |
|---------|------|---------|
| V1.01 | Aug. 15 2008 | 1st Edition |
| V1.02 | Jan. 15 2009 | 2nd Edition |

# Content

## Important Event

- This product is in general use for the equipment on the premise of the development, design, manufacture. Do not use that require high security purposes, such as machinery or medical, aviation equipment, machinery and transport-related deaths are directly or indirectly related to the system.
- This product should be in this brochure by the instructions of the types and rated voltage power under the current proper use. If violation of this statement by the safety records of the supply operation, I am afraid our company cannot afford any of the responsibility.
- Do not self-decomposition, alteration, repair of the products also will cause fire, electric shock, fault, and dangerous. In addition, their decomposition, alteration, repair the product, failure is not within the scope of warranty.
- The products are not waterproof, so please do not use and touch water. Take off and on also please note. Rain, spray, drinks, steam, sweat may be a failure.
- Use of this product, please be sure to use according to the statement recorded by the use of methods to operate. Please do not violate particular attention to the matter reminded to use.
- Please respect this statement recorded by the note. When consumers in contravention of this statement recorded note of the operation, I am afraid our company could not shoulder any responsibility.
- Products are defective, the Company will be responsible for free to amend the flaws, or to the same flawless product or its equivalent products in exchange. However, the Company does not assume based on the requirements of the flaw and loss responsibility.
- The Company reserves the right to retain without notice to users of the cases, the product of hardware / software (version upgrade) is with the right to edit.

## Declaration

This product provides different frequency for user selection to meet different telecommunication regulation and FCC/CE on different countries.

## Warranty

The warranty time is within one year from purchased date. The warranty scope are used in normal situation and none vandalism. (Some function harmful out of warranty scope and Vandalism are Un-warranty).

## Un-warranty Scope Description

- Because the natural disaster, accident or human factor to cause the bad damage.
- Violate the product instruction manual to cause the damage of the products.
- The improper assemble causes damage.
- The products used the unsanctioned accessory to cause damaged.
- Overstep the allowed used environment to cause the products damaged.

## Contact Us

WENSHING ELECTRONICS CO., LTD.
No.82, Chong De St. 11054 Shin Yi Dist, Taipei, Taiwan
Tel: +886-2-27353055
Fax: +886-2-27328813

## Product Description

Wireless paging customer waiting system is the newest design. It takes 925~928MHz and the furthest distance can up to 1KM. It is not only disturbed not easily to interference also easy to carry. In addition, it combine the general called features, but also the host can group broadcast and speak . Also, you can set length of effect distance, open or close voice, the regularly remind channel setting, sub-machine ID setting, light and vibration tips.

This product solved user places in the queue when the waiting time-consuming. Carrying sub-machine to leave the premises and you can return counter for pickup while it called. It is convenience also save your time. When the host broadcast, the group within the sub-machine can hear or talk, will not leak information.

Wireless paging customer waiting system can use for many applications: restaurant, tour group or groups call, banking and financial business centre, telecommunications center, postal center, highway supervision units, IRS, lands office, indoor political office, labor insurance department, tax authorities, other hall services, hospitals waiting room, various tourist attractions ticket centre and so on. The product mix for the host and sub-machine (followings will be simply calling to dialogue device), a host can use with up to 999 sub-machines at the same time.

## Function

- Broadcasting group: farthest effective range is up to one kilometer.
- Two-way-speaking groups: the effective farthest distance is 100meters.
- Host can set the length of the effective distance.
- Open or close voice.
- Timing alerts
- Channel setting
- Sub-machine ID setting
- Light and vibration alerts
- Power shortage alerts
- Sub-machine charging indicator light function

## Function Description

▶ Factory had built-in sound features on sub-machine:

- Normal boot: sub-machine vibrates for a second, and "beep" will sounds tips for two. If it didn't adjust the frequency, yellow light will flashing once every three seconds.
- Power shortage: when sub-machine detected voltage less than its own, it will be shut down automatically vibration function.

▶ Mandatory call feature:

- Host can mandatory use of individual sub-machine voice calls, and sub-machine can not refuse to host the voice calls.

## Brief Description

- Power: power to open and close function.
- Headphone Jack: 3.5mm standard audio, external headset and the group broadcast a call or two.
- Mini-USB interface: the use of Mini-USB cable between the computer charges.
- Key: when it is standby, press the call function and it will be executable (insert the headset when executable broadcast features); when it is called, please press and you can cancel the vibrating alert (insert the headset when executable two-way conversation function).
- Indicator: various state and signals tips.

## Accessory

● Mini-USB line

● Headset (option)

## Electrical Characteristic

| Item | Specification | Remark |
|---|---|---|
| Power | 320mAh Lithium batteries | |
| Frequency | 925~928MHz | |
| Output Power | 10mW | |
| Distance | Open space≧100m | |
| Channel | 4800 | Channel span 12.5KHz |
| Sensitivity | -110 dBm | Packet error rate:1% |
| The Longest Standby Time | Over 120 hours | |
| Continuous Talk Time | Over 10 hours | |
| Charging Time | 1.5 hours | |
| Current Consumption | Standby：3.5mA　　Calling：15mA  Talking：36mA　　Vibration：60mA | |
| Action Temperature | -10°C ~+70°C | |
| Storage Temperature | -20°C ~+45°C | |
| Relative Humidity | ≦60％ | |
| Size (mm) | 47 × 47 × 22 | |

## Host and Sub-machine Use & Matching Function Description

● Open sub-machine power.

● Sub-machine placed at the top of the sensor region, and burn the ID. Meanwhile, yellow color indicator light will be constant.

● After burn ID finish, yellow color indicator light will be flashing for five times, and notice voice will "deep".

● When sub-machine burn ID, it needs to add one instruction to determine open a two-way voice model or not.

● If it is under open two-way voice model, please press the group of sup-machine and insert the headset if you want to broadcast. (But it is only for sub-machine which is with open two-way voice function.

● If it is under unopened two-way voice model, called sub-machine can press to stop vibration deep. After 10 minutes, if the member still not back, host will keep vibration to keep calling continuous.

● When sub-machine is calling, it will be automated response to host the induction area and will issue a request for clearance and the instructions to sleep. If sub-machine is under uncalled and touch the sensor part, it will automate send fixed ID instruction.

● When you insert the headset, if the sub-machine broadcast in your group, they can start to receive the call and talk; sub-machine insert ear machine, the bright yellow light will be extinguished after two seconds, will also pull out the headphones for two seconds later extinguished.

## Host Setting Way

❿ Press 🔧 on host and it will be entre to set screen, the current password of system is 123456.

◑ When you entre to set main menu, there are four parameters for user setting
   and press ◀ so that you can change the parameters:
   ● CH is channel setting: there are N channels to let you choose.
   ● SID is host check code: set the ID code for host.
   ● E is voice function changing: set 0 is to close this function; set 1 is to open
     this function.
   ● RF_PW is the sending distance setting: there are N kinds to let you
     choose.

◑ Ext: press 9 and it will go to the next page.



◑ FIX current password window, press 1 to fix password; press 0 to keep
   original.



◑ Save settings content, press 1 to save the setting to the main menu, press 0,
   it will not set directly to the main storage selection:
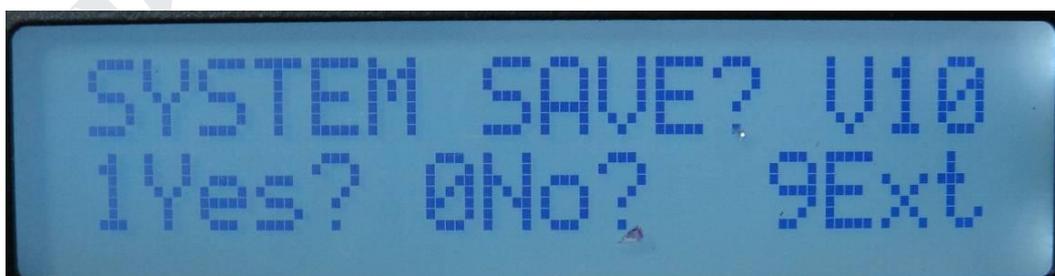
## Set over Time Reminding of Host

❱ Press ⏰ on host and it will entre to over time reminding list. Red place as followings is showed 15 minutes as a based.

```
BACK  TIME    3.5V
SET  01:15  P:000
```
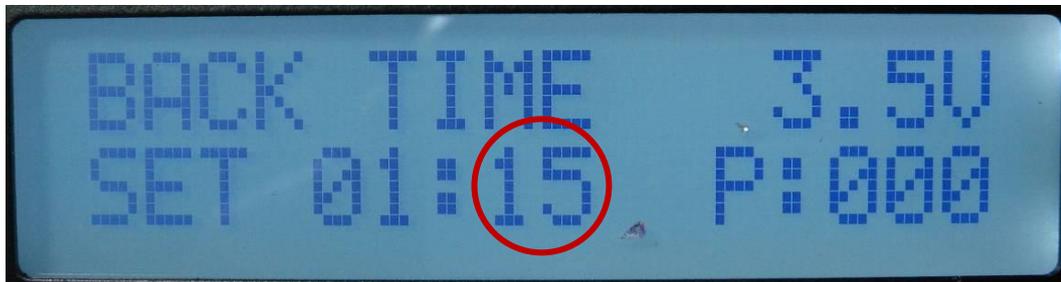
❱ Input 00 as over time without notice, input 01 for remind every 15 minutes, 03 is for remind every 30 minutes and so on.

```
BACK  TIME    3.5V
SET  01:15  P:000
```
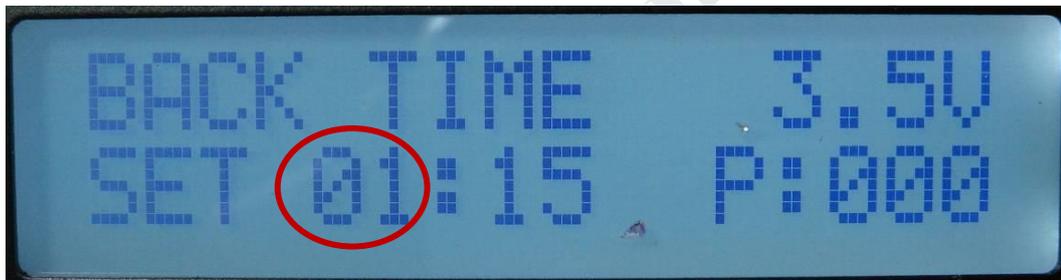
## Use Host to Clean Sub-machine ID

❱ Press 📇 on host, and entre to clean ID list as following:

```
MODE  DEL     3.5V
ID:         P:000
```

❱ Put sub-machine on sensor area and sub-machine will continue flash yellow light.
❱ When ID clean finished it will be vibrates to express finish clean. It also will be reduce memory quantities.

## Use Host to Burn ID of Sub-machine

◗ Press ⬛ and then press 📧📞, it will be burn into ID list:

```
MODE ADD        3.5V
ID: 001         P:000
```
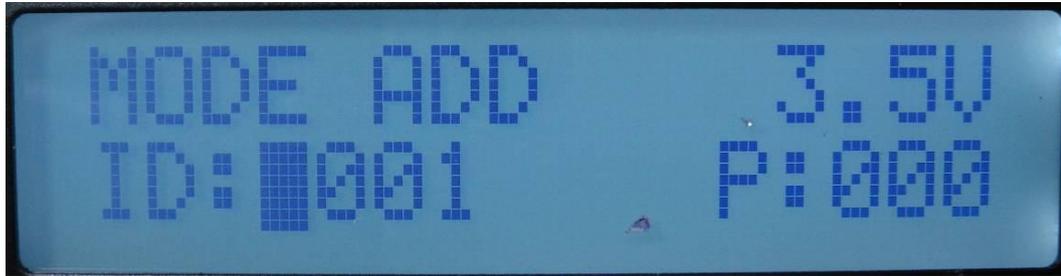
◗ Input ID code which is need to burn, ex: 0001.
◗ Put sub-machine into the sensor area on host and yellow instruction light will be shine continue.
◗ After ID burning finished, sub-machine will be expresses finish burning via vibration, ID and memory space will add as following:

```
MODE ADD        3.5V
ID: 0002        P:001
```
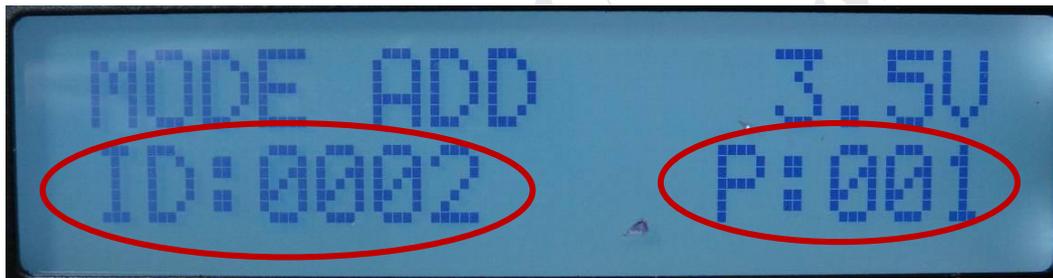
## Use Host to Call Sub-machine

◗ Press 📶 on host, and press into call into list:

```
CALL ONE        3.5V
ID: 0001        P:001
```

◗ Input ID code into the sub-machine , such as 0001, and press ↵ to call, calling screen is as following:

```
Send   ONE    3.5V
ID:0001 1s P:123
```

◗ Called sub-machine will be flashing yellow light and vibration, users can be sub-machine button to stop shouting call; every 15 minutes of machine will once again prompts the user also host can internally set to modify the duration of overtime tips.

## Use Group Calling Function

◗ Press 🔊 on host, please entre 📧 after it entre to calling list and then entre to group calling list.

```
CALL   ALL    3.5V
1Yes?  ■No?  P:000
```

◗ Input 1 and it will start group function, input 0 and it will back to group calling list.

## The Reason of Un-Communication
● Instruction light: please check the power is on or not.
● Can't boot: please recharge sub-machine and try again.
● Talking without any voice from headset: please check headset insert into the port or not.
● The voice become smaller: Please check the online headset volume is adjustable switch.
● When the other side can not hear the call: make sure whether the response to press the button.

## CE Caution Note (European Union)

Symbol of $C\epsilon$ it accords with EMC regulation (89/336 / EEC) to represent this device, and the low-voltage regulation of European Union (73/23/EEC). It represents to follow the following standard regulations of European Union (The bracket is a reciprocal international standard reciprocal international standard and regulation).

- EN 60950/A11: 1997/(IEC 60950/A4: 1996),The ones that includes information science and technology of apparatus of e-commerce safe.
- EN 55024: 1998 (IEC 1000-4-2, 1000-4-3, 1000-4-4, 1000-4-5, 1000-4-6, 1000-4-8, 1000-4-11) -' scientific and technological apparatus of information - The characteristic of interfere avoided - Restrain and test method '
- Chapter 2 -Static release  (ESD)  Demand
- Chapter 3 -Radiate the static field demand
- Chapter 4 -The electron is transmitted / produced and washed (EFT) fast Demand.
- Chapter 5 -surge demand
- Chapter 6 -Resistance demand caused in field of wireless frequency.
- Chapter 8 -Magnetic field demand of electric frequency.
- Chapter 11 –Shortly cut off the demand of making a variation with the voltage transiently under the voltage.

EN 55022:1998/(CISPR 22:1997) ,Class B, ' "To assess information scientific and technological apparatus wireless restriction and way of interfering with the characteristic."

## FCC Consistent Declaration ( U.S.A. Only)

Attention: FCC rule regulation, modified and changed must allowed by WENSHING Electronics company, otherwise that would make you operate this apparatus invalid. This apparatus adopted test, according to chapter 15 that FCC regulation, accord with Class B digital restrictions of device. These limits are designed to provide reasonable protection, avoid to having harmful interference at home's environment.

This device may have radiated wireless frequency energy. If don't allow the instruction manual, then may will interfere wireless communication. However, there is no any way to guarantee, it will not be interfered in particular installed. If this device really causes harmful interference, (It could be confirmed by turning on or off this device.)  Advise you to try to use the following ways modifying the interference situation.
- Relocation receiving antenna or altering its direction.
- Increase the distance between device and receiver.
- Please connect this device to the outlet in the circuit different from the receiver.
- The following manuals is published by Federal Communications Commission, they must be helpful to all users.
- How to Identify and Resolve Radio-TV Interference Problems. (This manual can be obtained by relevant departments of publication of the U.S. government.)
- Government Printing Office, Washington D.C., 20402. Stock No. 004-00398-5