Omega-Phone
924

OM-8WRLS

Owner's Manual

Release 2

IWATSU ™
VOICE NETWORKS

SPECIAL NOTICES

TOLL RESTRICTION

The Toll Restriction feature of the Omega-Phone 924 system is one method of preventing fraud (i.e., the making of unauthorized toll calls) by users of the system. The chance of fraud may be reduced but may not be eliminated. Only a complete program which includes but may not be limited to inspection of telephone call billing, use of call detail recorders, and other such devices, systematic monitoring of all telephone call activity, and implementing corrective measures can minimize the possibility of fraud. Iwatsu Voice Networks and/or its Third Party manufacturers/suppliers hereby disclaim any express or implied warranty that its equipment is technically immune from or prevents unlawful and/or unauthorized utilization that may result in unauthorized toll calls. Iwatsu Voice Networks hereby warns Distributor that such is possible.

Use of Call Recorder, Voice Mail Record, and Station Monitor

In certain states it is illegal to intercept, listen to, and/or record telephone calls. In certain states and under certain circumstances it is illegal to intercept for the purposes of listening in and/or recording telephone calls. Because such activity is not illegal in all jurisdictions and may be permitted in training and/or monitoring of personnel, this telephone system can be programmed to permit interception, listening to, and/or recording with or without warning to those on the line. Before utilizing the system for such purposes, you are advised to confirm the laws of the jurisdiction in which you utilize such features(s). Iwatsu Voice Networks and/or its Third Party manufacturers/suppliers disclaim any responsibility for improper or illegal use of the Call Record, VM Record, and Station Monitor Features and disclaim any obligations to render legal advice concerning this feature.

Electrical Safety Advisory

It is recommended that an AC surge arrestor of the form and capacity suitable for the model of the Omega-Phone 924 purchased be installed in the AC outlet to which the system is connected.

Music-On-Hold

In accordance with U.S. Copyright Law, a license may be required from the American Society of Composers, Authors, and Publishers or other similar organizations, if radio or TV broadcasts are transmitted through the music-on-hold feature of the telecommunications system. Iwatsu Voice Networks and/or its Third Party manufacturers/suppliers hereby disclaim any liability arising out of unlawful and/or unauthorized utilization use of the music-on-hold feature.

All brand names and product names used in this manual are trademarks of their respective companies.

Omega-Phone 924 OM-8WRLS Owner's Manual July 2009

11 10 09   06 05 04 03

This manual was written for Omega-Phone 924 systems. In some cases, available feature operations may differ from those listed in this manual, depending on the hardware, software and programmed functions in your Omega-Phone 924. For more information contact your authorized Iwatsu distributor.

Iwatsu Voice Networks has used its best effort to ensure that the information in this manual was accurate at the time of printing. Iwatsu Voice Networks makes no warranty of any kind, expressed or implied, with regard to the contents of this manual. This information is subject to change without notice.

Iwatsu Voice Networks shall not be held responsible for any representation made regarding this information by any individual.

OM-8WRLS

TABLE OF CONTENTS

OM-8WRLS

Section 1 –
Wireless Handset
Introduction

OM-8WRLS

INTRODUCTION

The OM-8WRLS wireless handset was designed to allow you to move freely while maintaining access to any number of outside lines, and resources of your office telephone system. It can be used for administrative and system programming as well as function in a hands free environment. The Omega-Phone 924 system can support a maximum of four handsets using two remote base units; each can support two simultaneous (Central Office or Intercom) conversations.

Important! As of August 2009 and Omega-Phone 924 Release 2, *the maximum capacity of the OM-8WRLS 2.4 GHz wireless handset has been reduced from two OM-8WRLS handsets per base station to one OM-8WRLS handset per base station. A maximum of two OM-8WRLS handsets are supported per system.*

FEATURES (OM-8WRLS HANDSET)

The OM-8WRLS was designed to function similar to the OM-KTD30 digital display telephone with the mobility of a wireless environment. The handset has a hot keypad, allowing telephone numbers to be dialed without having to press the Talk or Speaker keys and can be used for hands free communication. The OM-8WRLS wireless handset is equipped with three interactive soft keys, six programmable feature keys, and seven fixed keys – including the volume control keys and speaker key which are found on the sides of the handset. To make the most of the OM-8WRLS wireless handset, it also comes equipped with a 1/8 inch (2.5 mm) headset jack and can be programmed to ring, vibrate, or ring and vibrate for each incoming call, making the OM-8WRLS one of the most versatile key telephones available for businesses today.

OM-8WRLS Wireless Telephone

Volume Up/Down

Headset Jack

6 – Programmable Feature Keys

Talk Key

Flash/Transfer Key

Speaker Key

Back Lit, 3 - Line LCD

F1, F2, F3 Interactive Keys

Hold/Power Key

Function/ Feature Key

Microphone

COMPARISON TABLE

Digital Display telephone (OM-KTD30) and the Wireless Key Telephone (OM-8WRLS):

Feature	OM-KTD30	OM-8WRLS
Battery Charge Indicator	N/A	Yes (On LCD)
Conference or Page	Yes	Yes (Requires a key)
Dial Keypad (12-key touch tone®)	Yes	Yes
Hold	Yes	Yes
LCD	3 – Line 16 – Character	3 – Line 16 – Character
LCD Backlit	No	Yes
Message Waiting Indicator	Yes (with LED)	Yes (On LCD)
Off-Hook Voice Announce	Yes	No
Programmable Keys	18	6
Redial	Yes	Yes (Requires a key)
Soft Keys	3	3
Speaker	Yes (With LED)	Yes
System Programming	Yes	Yes
Talk key	N/A	Yes
Transfer / Flash	Yes	Yes
Volume UP/Down	Yes	Yes – Left Side

FEATURE MATRIX

Feature	Description
Frequency	2.4 GHz Frequency Hopping (90 channels/100 times per second) helps eliminate frequency interference.
Range:	Up to 250 Feet or 62,000 square foot operating range (depending on the environment)
Battery Life	Nickel Metal Hydride Battery. Up to 9 hours of Talk Time and up to 160 hours standby (depending on environmental conditions)
Headset Jack	1/8 inch (2.55 mm) – commonly used on cellular telephones

PART NUMBERS

Part Numbers	Description
700430	2.4 GHz Wireless Key Telephone with Battery Charger and Base Station
700431 **Discontinued for OM-924 Release 2 August 2009**	2.4 GHz Wireless Key Telephone with Battery Charger (Additional handset for PN 700430).

DEFAULT KEY LAYOUT

Interactive Key 1 (F1)	Interactive Key 2 (F2)		Interactive Key 3 (F3)
Programmable Key 1	The Red LED lights when the feature is active		Programmable Key 4
Programmable Key 2			Programmable Key 5
Programmable Key 3			Programmable Key 6
Talk	Flash / Transfer	Function / Feature	Hold / Power
1	2		3
4	5		6
7	8		9
*	0		#

FIXED KEY DESCRIPTIONS (HANDSET)

Interactive Keys

The three Interactive keys below the display automatically change state based on the status of the handset, making programming and feature operations easier. These keys are labeled F1, F2 and F3.

F1, F2, F3
Interactive Keys

Dial Keypad

The dial keypad is used to dial telephone numbers.

Talk Key

The Talk key is used to answer or originate ICM (intercom) or CO (central office) calls.

Trans (Flash / Transfer) Key

The Trans key is used to transfer calls to other stations in the system. When used as a Flash key, it will refresh the external dial tone from the telephone service provider. To help prevent the OM-8WRLS from dialing erroneous numbers, this key can be locked by pressing the Trans key for three seconds. To unlock the keys, press and hold the Trans key for three seconds, followed by the right (F3) Interactive key.

Func (Function / Feature) Key

The Func (Function / Feature) key is used to activate features, enter the attendant administration mode or to enter the system programming mode.

Hold / Power Key

The Hold key is used to place ICM and CO telephone calls on hold. Pressing the Hold key for three seconds will power the handset on and off.

Programmable Feature Keys

The Programmable Feature keys can be programmed with a desired feature/function including outside (CO) lines, intercom, and extension features such as Call Forward, Do-Not-Disturb, etc.

To program a feature/function key:

1. Press **Feat #3**.

2. Press the key to be programmed.

3. Select the desired feature using the interactive keys (refer to the Feature Code section of this manual for a full list of feature codes).

Mute

Mute cannot be programmed on a flexible feature key, but it can be activated and deactivated by dialing feature code **Feat 76**.

Volume Control (Left side of the handset)

The volume control is used to increase or decrease the receiver, ringer, speaker, and headset volumes based on the state of the telephone.

Volume Control

Headset Jack (Left Side)

The headset is activated when it is plugged in to the headset jack. However, some headset models may require entry of feature code **Feat 9#** for proper operation. When a headset is plugged into the OM-WRLS, the speakerphone is disabled.

Headset Jack

Speaker Key (Right Side)

The Speaker Key is used to activate the Speakerphone on an idle or busy handset

Speaker Key

OM-8WRLS

Section 2 –
Wireless Handset Quick
Setup Guide

OM-8WRLS

QUICK SETUP GUIDE

This section is designed to help you setup the OM-WRLS quickly and easily using a brief outline format.

INSTALLATION

The OM-8WRLS wireless handset is a fully functional key telephone set without wires. The OM-8WRLS handset occupies one digital extension port in the Omega-Phone 924 system and requires a base unit. The base unit has two digital extension ports that are connected (wired) to digital extension ports in the OM-KSU. The OM-8WRLS handset is connected wirelessly to its base unit.

Each Omega-Phone 924 system supports a total of two wireless handsets (2 base units, with 1 handset per base unit).

***Important! As of August 2009 and Omega-Phone 924 Release 2**, the maximum capacity of the OM-8WRLS 2.4 GHz wireless handset has been reduced from two OM-8WRLS handsets per base station to one OM-8WRLS handset per base station. A maximum of two OM-8WRLS handsets are supported per system.*

GETTING STARTED

The base unit, handset, battery charger, and AC adapter come as a kit (part number 700430).

Before you begin, ensure that you have all the items in the packing list for the part number that was ordered:

Part Numbers	Packing LIst

700430	1 x 2.4 GHz Wireless Key Telephone Handset w/
	    1 x Rechargeable Nickel Metal Hydride Battery
	    1 x Belt Clip (attaches to back of handset)
	1x Base Unit
	1 x Base Unit Wall Mount w/
	    2 x Dry Wall Anchors and Mounting Screws
	1 x Battery Charger w/
	    1 x AC Adapter
	2 x Line Cords

700431
 	
Discontinued for OM-924 Release 2 August 2009
	1 x 2.4 GHz Wireless Key Telephone Handset w/
	    1 x Rechargeable Nickel Metal Hydride Battery
	    1 x Belt Clip (attaches to back of handset)
	1 x Battery Charger w/
	    1 x AC Adapter

Part Number: 700430

Not shown is the wall mount plate that is mounted under the base unit and the belt clip that attaches to be back of the handset.

Belt Clip

To help eliminate misplacing the handset, a belt clip is included with each OM-8WRLS handset. The belt clip is attached to the back of the handset by inserting the plastic posts on the belt clip into the indentations found on the sides of the handset.

WIRELESS KEY TELEPHONE HANDSET

1. Unpack the wireless handset and battery charger unit.

   - The battery charger must be plugged into an AC outlet.

   - When the handset is placed into the charging unit, the red charging light will illuminate.

2. Open the back of the handset, found at the bottom, to install the supplied battery.

   - Unpack the battery.

   - Plug the battery cable into the small white connector found at the bottom of the handset; then clip the battery into place.

   - Replace the back cover.

3. If the battery has enough stored power, the handset will power up and the display will read **Initializing Please Wait…**

Note: If the handset does not power up automatically, press the Hold key for three seconds to power it up manually.

4. The handset will attempt to establish a connection to the base unit, which is not yet active. When the handset cannot connect to the base unit, the display will read **No Link To Base**.

- To ensure the handset is fully charged, place the handset in the battery charger for 24 hours before use.

- While programming, the handset is identified by the digital port where it is connected on the base unit: Port 1 = L1 (line 1).

WIRELESS BASE UNIT

The wireless base unit is a compact radio transmitter that connects the Omega-Phone 924 telephone system with the Wireless Key Telephone Handset. The base units contain Printed Circuit Boards (PCB's) that can be susceptible to excessive heat or cold. Therefore, the base units should be mounted in a clean environment controlled area with a relative temperature of 50 to 80 degrees Fahrenheit with a relative humidity of 40 to 80 percent.

The base unit is line powered by the Omega-Phone 924 system through the RJ11C jack. There is no need to locate this unit near an AC outlet. The base unit should be centrally located for maximum wireless coverage for the handset(s).

The Wireless Base Unit can be surface or wall mounted. The base unit comes with a standard wall mount bracket and the antenna can be kept straight for wall mount, or bent at 90 degrees for surface mounting.

Wireless Base Unit Setup

1. Unpack the Wireless Base Unit.

   - To provide the best possible signal the unit should be located at an optimum height and location for the coverage area. Like all wireless systems, the wireless handset works best when it is in the line-of-sight of the base unit. Obstacles such as concrete or metal walls can substantially limit the range. Although rare, other equipment in the same frequency range may cause interference. When using more than one base unit, be sure to place them at least 20 feet apart.

- For proper operation, the dip switches on the back of the base unit should all be set to the **Off** (up) position.

- (The dip switch positions are shown in white)
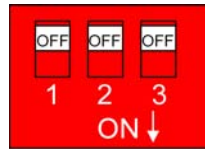
2. Connect the base unit to the telephone system using one digital port for each wireless key telephone handset.

   Important! As of August 2009 and Omega-Phone 924 Release 2, the maximum capacity of the OM-8WRLS 2.4 GHz wireless handset has been reduced from two OM-8WRLS handsets per base station to one OM-8WRLS handset per base station. A maximum of two OM-8WRLS handsets are supported per system.

   - Plug in port 1 (L1) to power up the base unit.
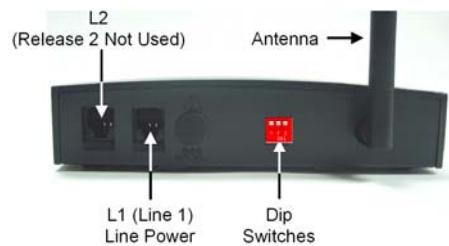
   Note: The wireless base unit is powered by the telephone system so there is no need for an external power supply or AC outlet.

   - To ensure proper operation, locate the red LED on the front of the base unit. There are three different cadences and they are:

Operation	Cadence
Normal Operation	500 milliseconds on 500 milliseconds off
Transition Mode	1000 milliseconds on 1000 milliseconds off
(De) Register Mode	125 milliseconds on 125 milliseconds off

3. Handset Registration:

    ▪   The OM-8WRLS wireless handset comes with a base unit that is
        factory registered and should be operational right out of the box. If
        the handset does not become operational, refer to the **Registration
        and Troubleshooting** section in this manual for directions to
        manually register the handset. The handset and base unit kit are part
        number 700430.

        *Note: OM-8WRLS-EXP(PN 700431) discontinued with OM-924 Software
        Release 2, August 2009.*

REGISTERED
HANDSET #1

Section 3 – Wireless Handset Operation and Programming

OM-8WRLS

OPERATION AND PROGRAMMING

OPERATION

The OM-8WRLS Wireless Key Telephone is designed for people on the go. The interactive keys make it easy to program and operate. This section is designed to help you understand the displays.

Power On / Off

To power up the handset, press the **Hold** key for three seconds. The handset will go through a start up procedure and the display will display **POWER ON**.

Although it is not necessary to turn the power off when not in use, the wireless handset can be turned off by pressing the **Hold** key for three seconds. When the telephone is idle, it will automatically go into standby mode to preserve the battery charge. In the standby mode, LED's will not automatically update. The handset becomes active when a call is received or when any key is pressed.

- The display will indicate a change in status:

Normal Operation

1. Once the OM-8WRLS is registered, the display will update to show the ring mode(s), battery indication, date, time, station name (if programmed), and the station (extension) number.

2. To turn the power on or off, press the **Hold** key for 3 seconds. When powered up, the back lit LCD display, will display the current date and time, extension number, and ring mode. To conserve energy, the back lit display will turn off in 10 seconds. After 20 seconds, the handset will go into sleep mode and only display the ring mode, current battery charge, and the extension number. Any activity on the telephone will awaken the handset and the handset becomes fully functional.

3. The OM-8WRLS has an individual call log, with the following display:

Caller ID
Call Log

DISPLAY ICONS AND MESSAGES

The display icons are designed to help the user understand the status of the OM-8WRLS.

OM-8WRLS Display Messages and Icons

Message / Icon	Description	Display Location
🔔	Ring Mode	Top Left
(( ))	Vibrate Mode	Top Left
((🔔))	Ring & Vibrate Mode	Top Left
▬ ▬ ■	Battery Charge	Top Right
LOW BATTERY ▬	Low Battery Indication	Top Center
Ç	Key Lock	Top Right
OUT OF RANGE	The handset is out of range of the base unit	Top Center
NO LINK TO BASE	Connection to the base unit is lost	Top Center
PLEASE REGISTER	The handset is not registered	Top Center

Ring

There are **three ring modes**: **Ring**, **Vibrate**, and both **Ring & Vibrate**. The visual indication is located at the top left hand side of the display.

| Ring Mode | Vibrate Mode | Ring & Vibrate Mode |

Battery

The OM-8WRLS wireless handset is powered by a long life rechargeable Nickel Metal Hydride battery pack. The battery icon, which is located on the top right-hand side of the display, displays the amount of charge that is left on the battery. As the charge decreases so does the size of the battery icon. If the charge gets too low, the icon becomes very small and the display will read, **LOW BATTERY**. If the handset is in use while the battery is losing its charge, an audible tone is heard once every 15 seconds.

Battery
Fully Charged

Low Battery
Indication

- When the wireless handset is not in the charging base, background music, when enabled (Feature 52), will drain the current telephone charge.

Out of Range

When the handset is carried out of signal range from the base unit, a warning tone will repeat every five seconds and the display will update.

OUT OF RANGE

No Link to Base

If the connection is lost from the base unit to the OM-8WRLS handset, due to a power failure or lost connection to the telephone system, the display will read **NO LINK TO BASE**. This is an indication that the handset and the base unit are unable to communicate with each other. To reestablish the link, return to the base unit to make sure that it is operating correctly. Re-establishing the link may take up to 30 seconds.

NO LINK TO BASE

Registration

If the OM-8WRLS is not registered to the base unit, the display will read
PLEASE REGISTER. To register the handset, refer to the **OM-WRLS
and OM-WRLS-EXP Registration and De-Registration** section in this
manual.

PLEASE REGISTER

Key Lock (Flash / Transfer)

When the OM-8WRLS handset is idle, press the **Trans (**Flash/Transfer) key
for three seconds to lock and unlock the keys. This will prevent the handset
from dialing unintended digits. Although the keys are locked, incoming calls
can still be answered by pressing the talk or speaker keys.

The **Ç** in the display is the indication that the handset is locked.

Key Unlock

To unlock the keys, press the **Trans** /Flash key for 3 seconds and then press **F3**.

LONG KEY PRESS
[TRANSFER]
TO UNLOCK

F1, F2, F3
Interactive Keys

Note: "Long Key Press" = Press and hold the "Flash/Transfer" key for 3 seconds.

To ensure that the keys are not accidentally unlocked, the right Interactive key (F3) must be pressed within three seconds to complete the **unlock** procedure. If the key is not pressed the handset will remain locked.

TO UNLOCK
PRESS [F3]

HANDSET PROGRAMMING

To enter the handset programming mode, press and hold the F1 interactive key for three seconds. The interactive keys assist in the programming process. In programming the interactive keys do double duty. When scrolling through the main programming screen, interactive keys (**F1**) and (**F2**) are used for **up** and **down**. However, once a parameter is selected, they are used for **yes** and **no**. The right interactive key (**F3**) is used for **select** and **OK**.

F1, F2, F3
Interactive Keys

Interactive Keys	Function
F1 (Left)	Enter/Exit Handset Programming Mode Scroll up Yes
F2 (Center)	Scroll down No
F3 (Right)	Select OK On/Off

Programming Fields

There are six programming fields that can be customized for each OM-8WRLS handset.

Heading	Parameters
Language	English, French, Spanish (Default = English)
Register	
Deregister	
Vibration	Ring, Vibrate, Ring & Vibrate (Default = Ring)
Auto Pick up	Receiver, Hands free, disable (Default = Receiver)
Reset Handset	

Select the programming parameter from the programming menu by scrolling through the choices. When the **>** sign is on the parameter to be programmed, press **F3** (OK). In the example below, the Language parameter is programmed.

From this point on, the manual assumes that the OM-8WRLS wireless handset is in programming mode.

Language

The OM-8WRLS wireless handset can be personalized to display the prompts in three different languages: English, French, and Spanish. **Default = English**.

- Press **F2** to scroll through the languages.

F1, F2, F3
Interactive Keys

- When the desired language appears in the display, press **F3** (OK). A confirmation tone is heard and the word **OK!** will appear in the display.

- After three seconds the display will update to the upper level menu. The following display appears:

- To **continue** programming, press the **down** key. To **exit** programming press the **hold** key.

Registration

Each OM-8WRLS wireless handset becomes an extension on the system after it is registered.

- To register a new phone, set the dip switches on the host base unit, as demonstrated in the OM-8WRLS and OM-8WRLS-EXP Registration and De-Registration section. Select **REGISTRATION** from the programming menu and press **F3**.

- Select **YES?** to begin the registration process.

> REGISTRATION
NO?

> REGISTRATION
YES?

- While registering, the display will read:

> REGISTERING
PLEASE WAIT...

- If the registration process is successful, the display will update and a confirmation tone is heard.

> REGISTERED
HANDSET #

Note: The # is the number of the handset being registered.

- If this procedure fails, the display will update and the registration process will have to be repeated.

De-Registration

Occasionally it may be necessary to de-register your handset. Once de-registered, the handset is no longer considered part of the system. To de-register a handset, select **DE-REGISTER** in the programming menu and press **YES?** (F3).

- Selecting **YES?** begins the de-registration process.

- While the de-registration process takes place, the following is displayed:

- If the de-registration process is successful, the display will update and a confirmation tone is heard.

- Press **OK!**

Note: If the procedure fails, please see the Troubleshooting section.

Ring Mode

The Handset has three different ring modes. Ring, Vibrate, and Ring and Vibrate. The Default setting is Ring only.

- Select **VIBRATION** from the menu to set the type of ringing for this handset.

- When set to **RING**, the handset will ring when the extension number is dialed. Press **F3** (OK) and the ring icon will update.

- When set to **VIBRATOR,** the handset will vibrate when the extension number is dialed. Press **F3** (OK) and the ring icon will update.

- When set to **RING** and **VIBRATOR**, the handset will ring and vibrate when the extension number is dialed. Press **F3** (OK) and the display icon will update.

- Once the desired Ring mode is selected press the **F3** (OK). A confirmation tone is heard and the display will update:

AUTO PICKUP

Auto pickup allows the user to select how calls are answered. There are three ways that a call can be answered; Hands free, Receiver, and Disabled.

In the Hands free mode, the user can speak with incoming callers without removing the handset from its charging base.

In Receiver mode, the user must remove the handset from the charging base in order to speak.

When Auto Pickup is disabled, the user has to remove the handset from the base unit and press either the **Talk** or the **Speaker** key to speak with the calling party. The Auto Pickup functionality can be affected by the Voice Call Allow/Deny (Feature 98) feature. To ensure proper operation please refer to the following matrix:

Wireless Handset Auto Pickup Operation:

Mode	Disabled	Receiver	Hands Free
Voice Announce- Hands Free	Voice Announce / Answer Hands Free		
Voice Announce – Private	Announce only. User must dial **Feature 76** to disable Mute		
Tone Ringing	Rings, does not answer when removed from the charging base unit.	Rings, answers in **Talk** mode when removed from the charging unit	Rings, answer in **Speaker** mode when removed from the charging unit

- Select **AUTO PICKUP** to customize the way each handset answers incoming calls.

- When set to **RECEIVER** the user can answer a ringing call by removing the handset from the charging base or by pressing either the **Talk** or **Speaker** key.

- When set to **HANDSFREE** the user can converse with intercom callers without pressing any keys or taking the handset out of the charging base. Central Office calls still require the handset to be taken out of the base unit, press the **Talk** or **Speaker** key.

- When set to **DISABLE** the user must remove the handset from its charging base and press either the **Talk** or **Speaker** key to answer the incoming call.

- Once the desired Auto Pickup mode is selected, press **F3** (OK). A confirmation tone is heard and the display will update:

RESET HANDSET

Reset Handset is used to initialize the handset back to factory default for the six programming parameters. Extension features that are programmed by the telephone system and the programmable feature keys are unaffected by this reset.

- Select **RESET HANDSET** to initialize the handset, press **F3** (OK).

- Press **F1** or **F2** to toggle between **NO?** and **YES?**, press **F3** (OK) when the desired answer is in the display.

- If **NO?** is selected, the handset is not initialized and will return to the initial menu. If **YES?** is selected, the display will update and the handset will initialize and restart automatically.

- After the reset is complete, the handset restarts:

OM-8WRLS and OM-8WRLS-EXP Registration and De-Registration

The OM-8WRLS wireless handset is pre-registered to a base unit when purchased as a package (PN: 700430).

Important! As of August 2009 and Omega-Phone 924 Release 2, the maximum capacity of the OM-8WRLS 2.4 GHz wireless handset has been reduced from two OM-8WRLS handsets per base station to one OM-8WRLS handset per base station. A maximum of two OM-8WRLS handsets are supported per system.

Note: OM-8WRLS-EXP(PN 700431) discontinued with OM-924 Software Release 2, August 2009.

This is a two step process - handset and base unit.

HANDSET REGISTRATION PROCEDURE

If the handset power is on, press the **Hold** key for **3** seconds to turn the handset off. Wait 10 seconds before beginning the registration process.

Step 1: Handset Setup

- Press the **Hold** key for **3** seconds to power up the wireless handset.

- Press and hold the first interactive key (**F1**) to enter the programming mode and then press **F2** to scroll to **REGISTRATION**.


- Press the **F3** key to select **REGISTRATION**.
- Press either the first or second (**F1** or **F2**) interactive key to change the display from **NO?** to **YES?**

DO NOT PRESS F3 AT THIS TIME. F3 is pressed during Step 2.

Step 2: Base Unit Settings.

- Remove power from the Base Unit by unplugging **L1** (port 1).

- Place Dip **Switch 1**, in the **up** position, turning if **off**. Place Dip **Switches 2** and **3** in the **down** position, turning them **on**.
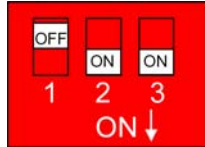
Note: The LED will flash in the "Registration Mode" Cadence (125 milliseconds on, 125 milliseconds off). Dip switch 1 is off (up) and Dip switches 2 and 3 are on (Down).

- Plug in **L1** (port 1) – Restoring power to the base unit.

- Wait 5 seconds – the LED will begin flashing rapidly.

- For the next 30 seconds, while the LED is rapidly flashing, press the **F3** key on the Handset.

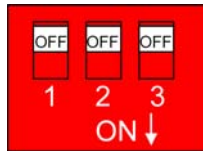- If successful, the handset will update:

Note: If Handset 2 is being register the display will Read HANDSET #2.

- The display shows that the handset is now on line:


```
((🔔))        ■
JAN 01 TUE 10:15
NAME          12
```

- Before proceeding, place all three dip switches in the **Normal** position (All switches up, in the off position).


```
OFF  OFF  OFF
 1    2    3
      ON↓
```

- If the registration process is unsuccessful the following is displayed on your OM-8WRLS screen:


```
((🔔))        ■
FAILED
TRY AGAIN!
```

- In this case, repeat the Registration procedure starting with Step 1: Handset Setup.

DE-REGISTERING A HANDSET

On occasion a handset needs to be de-registered. This procedure is required if the handset will be used on the different base unit.

There are two methods for de-registering handsets:

1. From the handset, each can be de-registered individually.

2. From the base unit using the dip switches, all handsets or an individual handset can be de-registered.

Method 1: Handset

▪ While in the programming mode, select **DE-REGISTER**.

▪ Press **F1** or **F2** to toggle between **NO?** and **YES?** press **F3** (OK) when the desired answer is displayed.

▪ Select **NO?** to back out of this area without de-registering the handset. Select **YES?** to de-register the handset. The display will update:

- If it is successful the display will update:

Method 2: Base Unit

The dip switches are used to de-register one, or both, handsets from the base unit. To de-register a handset, it must be in an idle state.
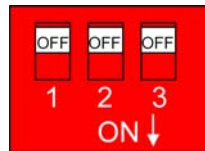
De-register All Handsets

- To remove power from the base unit, unplug port 1

- Reposition the dip switches as follows – Place switches 1 and 2 in the up position (**Off**) and switches 3 in the down position (**On**).
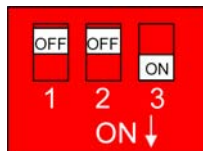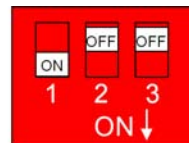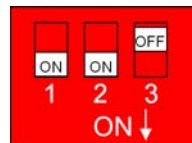

- Restore power to the base unit. During the de-registration process the LED on the base unit will flash at a unique rate; 125 milliseconds on, 125 milliseconds off. The de-registration process will take approximately five seconds.

- When the process is complete, remove power from the base unit by unplugging port 1. Place the dipswitches back into the **Normal Operation** mode by placing **all switches** up or **Off** position.

### De-register Individual Handsets

- To remove power from the base unit, unplug **L1** (port 1).

- Reposition the dip switches as follows:

    - **Handset 1** – Place switches **1** and **2** in the down position (**On**) and switch **3** in the up position (**Off**).

    - **Handset 2**– Place switch **1** in the down position (**On**) and switches **2** and **3** in the up position (**Off**).

De-register Handset 1   **De-register Handset 2**

- Restore power to the base unit. During the de-registration process the LED on the base unit will flash at a unique rate; 125 milliseconds on, 125 milliseconds off. The de-registration process will take approximately five seconds.

- When the process is complete, remove power from the base unit by unplugging **L1** (port 1). Place the dipswitches back into the **Normal Operation** mode, by placing all switches up or off position.
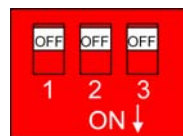
- Because the de-registration process is initiated from the base unit, the handset remains passive and will update once the de-registration process is complete. To confirm that the de-registration process is successful, the de-registered handset(s) will display:

CALL HANDLING

Answer a Call

Intercom calls can be answered in hands free mode allowing you to speak with the calling party without pressing a key. If the handset rings, press either the **Talk** or the **Speaker** key to answer the call. Depending on the Auto Pickup parameter, you may also answer a call just by removing the handset from the charging base.

Hot Keypad

The **Hot Keypad** is a step saver dialing feature, which allows calls to be placed without having to press extra keys. Simply dial the extension that you are trying to reach, or press the CO line and dial the telephone number. There is no need to press the speaker or talk key before dialing.

Place a Call on Hold

To place a call on hold, press the hold key. To retrieve the call, press the hold key again, or select the CO line on hold.

Transfer a Call

There are two ways to transfer a call:

Option 1:

- While on a telephone call, press the **Hold** key.
- Dial the destination (extension number, voicemail, or hunt group).
- Press the **Trans** key to complete the transfer.

Option 2:

- While on a telephone call, press one of the 6-preprogrammed keys containing the extension number where the call will be transferred.

Terminate a Call

Press the **Talk** key to terminate an active telephone call. Pressing the speaker key may not terminate the call, depending on the conversation mode.

Place a Call

Dial the intercom telephone number or press one of the 6-preprogrammed keys that has programmed intercom or CO line.

OM-8WRLS

Section 4 – Specifications

OM-8WRLS

SPECIFICATIONS

FREQUENCY RANGE

Frequency Range	2.4 to 2.4835 GHz
Operating Channels	90

ELECTRICAL SPECIFICATION (HANDSET)

Battery	Rechargeable Nickel Metal Hydride Power Rating: 3.6 V DC – 700 mAh Stand-by Time: Up to 160 hours Talk Time: Up to 9 hours
Range	Up to 250 feet – Line of Sight or Up to 62, 500 square feet

LAMP CADENCE (HANDSET)

Dark	Line or Intercom is idle, or the feature is not active
Lit	Feature is active
Slow	0.5 seconds on, 0.5 seconds off, repeating
Fast	0.1 seconds on, 0.1 seconds off, repeating
I-Use	1.85 seconds on, 0.05 seconds off, 0.05 seconds on, 0.05 seconds repeating

BEEP / RINGER CADENCE (HANDSET)

Key Tone	50 milliseconds
Single Beep	500 milliseconds
Double Beep	250 milliseconds on, 250 milliseconds off, 250 milliseconds on, then off
Intercom Ring	300 milliseconds on, 400 milliseconds off, 300 milliseconds on, 2 seconds off repeating
CO/Trunk Ring	1 second on, 2 seconds off, repeating
Hold Recall Ring	300 milliseconds on, 400 milliseconds off, repeating

BASE UNIT

Line Jack	Two digital station ports (2-wire) to the telephone system, using a standard RJ11C. *Only one digital station per base unit (L1 port) supported on OM-924 Release 2.* ***Important! As of August 2009 and Omega-Phone 924 Release 2**, the maximum capacity of the OM-8WRLS 2.4 GHz wireless handset has been reduced from two OM-8WRLS handsets per base station to one OM-8WRLS handset per base station. A maximum of two OM-8WRLS handsets are supported per system.*
Port Jack	The voltage for the base unit is supplied by the telephone system over the digital port connected through port 1 (L1).
Power Jack	AC Power port is reserved for special environments only.

FCC RULES AND REGULATIONS

This product has been tested and found to be compliant with Part 15, and is eligible to use the telephone system's registration number.

Section 5 –
Feature Codes

OM-8WRLS

FEATURE CODES

Feature	OM-KTD30 and OM-8WRLS Telephones	Single Line Telephone
Access Specific CO Lines	*Feature* 0(x) (x=line 1-9)	# 0(x)
Account Code	4	4
Answering Machine Emulation (AME)	*Feature* 64	
Attendant	0	0
Attendant Administration	*Feature* #0	
Authority Traveling Code (Traveling CoS)	*Feature* 55	# 55
Automatic Hold (Allow/Deny)	*Feature* 94	
Automatic Selection	*Feature* 95	
Automatic Record	*Feature* 67	
Background Music (BGM)	*Feature* 52	
Busy Ring (Allow/Deny)	*Feature* #2	
Call Back	*Feature* 91	# 91
Call Forward	*Feature* 2	# 2(y) Y = 0 – Idle Forward 1 – Busy Forward 2 – Direct Forward 3 – Follow Me 4 – No Answer 5 – Busy / No Answer 6 – External Forward
Call Park	*Feature* 73	
Call Pickup Directed	*Feature* 53	# 53
Call Pickup Group	*Feature* 54	# 54
Caller ID (CID)	Press CID (Center Interactive Key)	
Call Wait (Allow/Deny)	*Feature* 99	
Camp On (Busy Extension)		Ext + 2
Camp On (Busy CO Line)		#
CO Line Access	9	9
Conference	*Feature* 60	
Data Rate	*Feature* 75	
Day/Night Mode (Attendant or Alt Attendant Only)	*Feature* 63 + PPPP PPPP = Attendant Pswd	
Default Flexible Keys	*Feature* 58	
Default Setting	*Feature* 69	
Directed Call Pickup	*Feature* 53	# 53

Feature Code Table (Continued)

Feature	OM-KTD30 and OM-8WRLS Telephones	Single Line Telephone
Distinctive Ring	Feature #7	
Do Not Disturb	Feature 4	# 4
Extension Feature Status	Feature #8	
Extension Password / Phone Lock	Feature 97	# 97
Extension Reminder	Feature 92	# 92
Extension Reminder Delete	Feature *92	# *92
Flash (PBX/CO)	Feature 3	# 3
Flexible Feature Key Programming	Feature #3	
Group Call Pickup	Feature 54	# 54
Headset	Feature 9#	
Hot Dial	Feature #6	
Hold Retrieve (SLT) Same Extension		* 6
Hold Retrieve (SLT) Different Extension		* 7 EE EE = Extension
Hot Line		# #4
Intercom Callback	Feature 91	
Last Number Redial	Feature 8	# 8
Least Cost Routing	Feature 68	
Message Waiting	Feature 96	# 96 Send # *96 Cancel
Monitor Extension	Feature 7*	
Multiple Mailbox Key	Feature 66 + 0 or Feature 66 + 70 – 79	
Mute	Feature 76	
Night Mode (Attendant)	Feature 63	
Page	Feature 50	# 50(Z) Z = 0 – All Call 1 – External Page Only 2 – System All Call 3 + g – Group All Call (g = 1-9)
Page (Allow/Deny)	Feature #9	
Page Answer (Meet Me)	Feature 59	# 59
Pause	Feature 70	
Phone Lock	Feature 97	# 97
Pulse to Tone	*	*
Relay Control	Feature 61	
Saved Dialed Number	Feature 51	
Security Control	Feature 62	

Feature Code Table (Continued)

Feature	OM-KTD30 and OM-8WRLS Telephones	Single Line Telephone
Speed Dialing (Abbreviated Dialing)	*Feature* 1	
Speed Dialing (SLT)		# 1 to store * 1 to dial
Status Message	*Feature* 90	
Touch Tone On/Off (Dial Confirmation Tone)	*Feature* #1	
Transfer Beep	*Feature* 79	
Voice Call (Allow/Deny)	*Feature* 98	
Voice Mail	*Feature* 64	# 64
Voice Recording	*Feature* 67	