

CDMA Fixed Wireless Telephone User Guide

Model: LSI-1000

REVISED HISTORY

DATE	ISSUE	CONTENTS OF CHANGES	REMARK
2001/11/7	ISSUE1	Initial Release	

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Highlights

Congratulations on your purchase of the LSI-1000 Fixed Wireless Telephone. This telephone has been designed to operate on the latest digital mobile communications technology. This technology has greatly enhanced voice clarity and can provide various advanced features.

The telephone provides:

- 1-line LCD Display with status indicator
- A choice of 10 ring sounds
- A menu driven interface with prompts for easy operation
- Last Number Redial
- Speed Dialing with a 12-number memory
- Dial tone
- Adjustable Ring Volume
- Internal Back-up Battery Pack
- AC Power Supply
- Data Port for service and repair
- Backlight

1. Important Information

1.1 Safety Information

Warning

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. Do not use this product near swimming pools or other bodies of water.

IMPORTANT

Before installing or operating this product read this information.

1.2 Optimal Phone Performance

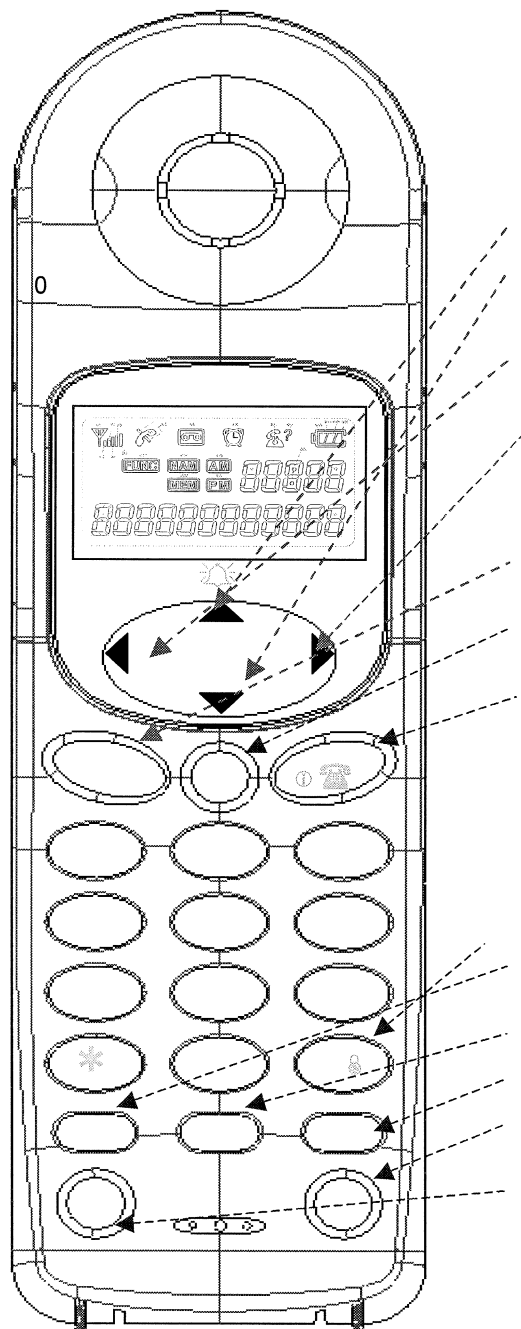
- Do not use the unit with a damaged antenna. Have your antenna replaced by a qualified technician immediately. Use only a manufacturer-approved antenna. Non-approved antennas, modifications, or attachments could impair call quality, damage the phone.
- RF energy may affect improperly installed or inadequately shielded personal medical devices such as pace markers, hospital monitor. Consult the manufacturer of any personal medical devices to determine if they are adequately shielded from external RF energy. Turn your terminal OFF in health care facilities when any regulations posted in the areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.
- If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna
 - Increase the distance between the radio or television and the telephone.
 - Connect the equipment into an outlet on a circuit different from that to which the terminal is connected.
 - Consult you Authorized LGIC Dealer or an experienced radio/TV technician for help.
- Use only the battery and AC power supply provided by LGIC. Using any other type will invalidate the warranty.
- Only authorized personnel should service the phone and its accessories. Faulty installation or service may be dangerous and may invalidate the warranty.
- Do not use the unit in designated "no cellular phone use" area.
- Avoid exposure to high temperature or humidity.
- Avoid wetting the unit with any liquids. If the unit gets wet, turn the power off immediately and remove the backup battery and AC power supply. If the unit is inoperable, then return to the service agent for service.
- Avoid shock or impact.
- We recommend you to charge the backup battery before initial use. Backup battery may be discharged during delivery.

1.3 Care and Service

- Unplug the telephone from the wall before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- If the unit fails for any reason, do not attempt to disassemble; contact the telephone service provider for assistance.
- If any of the following conditions exist; unplug the unit at the wall plug, remove battery, and call the service provider.
 - The power supply cord is damaged or frayed.
 - Liquid has been spilled into the unit.
 - The unit has been exposed to rain or water.
 - The unit has been dropped or damaged.
 - The unit does not work normally by following the operating instructions.

2. Introduction

2.1 Front View of the Telephone



Navigation UP Key : Function as a Ring/EAR Volume UP

Navigation DOWN Key : Function as a Ring/EAR Volume Down

Navigation Left Key : Activate a function

Navigation Right Key : Function as a Ring Type selection

Send Key : Function key to call

Function Key: Activate a Menu state

END Key : Terminate a call or a menu state.

"# "Key : Function as a keypad lock.

MEMORY1 Key : Key for One touch for dial (memorized call number #1)

MEMORY2 Key : Key for One touch for dial (memorized call number #2)

MEMORY3 Key : Key for One touch for dial (memorized call number #3)

Clear Key : Key to delete the last digit.

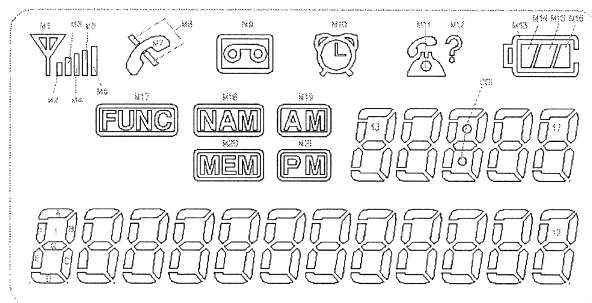
REDIAL Key : Function as a redialing

Other Keys

2.2 LCD Display

The LCD shows icons on the top of the LCD screen.

Different indicator appears based on the phone's operating mode.



- 1) RSSI indicator : Indicates the signal strength in the service area.



- 2) No service : The phone is not receiving system signal.
3) In use : Displayed when call is in progress or the phone is in off-hook and dial tone heard.



: No service



: In use

- 4) Voice message : Displayed when a voice message is received.



- 5) Caller ID : Displayed when call is received.



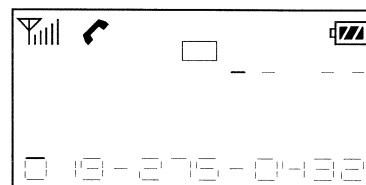
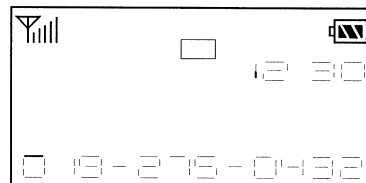
- 6) Battery charge level : Indicates charged battery level.



3. Basic Operation

3.1 Making a Call

1. Pick up the handset or press Send Key button
2. Listen for dial tone
3. Enter the phone number with area code if needed.
4. Wait for the Auto Time-out.
5. The call is connected and you can start conversation.
During conversation, [AM / PM] Icon is not seen
6. To disconnect the call, press End Key button.



3.2 Redialing Last Outgoing Number

1. Pick up the handset or press Send Key button.
2. Listen for dial tone.
3. Press **Redial** button. The last number that you called will be re-dialed.

- **Correcting dialing mistakes**

1. Press **Clear** button shortly to erase the most recent digit.
2. Press and hold **Clear** button for at least one second.

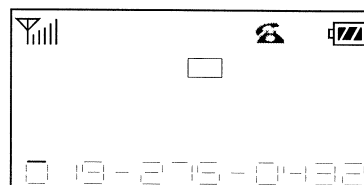
- If the phone is locked, Press ' #' key long.
- If the call did not go through, press the End Key and dial again.
- Battery icon is displayed only when the terminal is operating by battery without AC power.

3.3 Receiving a Call

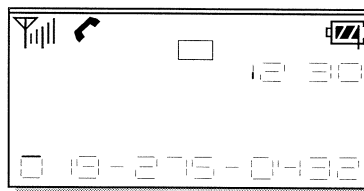
1. When bell rings, press Any Key or pick up the handset from the charger.

Press Send key at the Lock state

2. Start conversation.

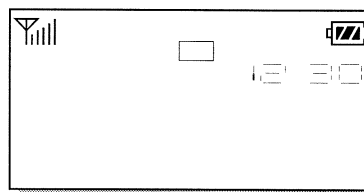


3. To disconnect the call, press End key or pick down the handset on the charger.



3.4 Signal Strength

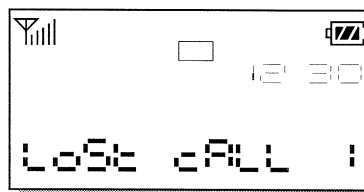
The quality of calls depends on the signal strength in your area. The stronger the signal, the better the call quality. The signal strength icon indicates the current strength as a number of bars. You can see the antenna and bars according to the strength of received signal in the upper-left part.



3.5 Missed Call Message

If a call is received and not answered for user's absence, You are informed that you have missed a call. The latest missed call time and number of missed call is displayed.

Press **End Key** to erase "Missed call" message.



4. List of Menu State

Main menu	Sub menu	Setting Value	default
1. Volume / Ring	1. Ring volume	4 steps	
	2. Ear voume	4 steps	
	3.Button volume	3 steps +silent	
	4. Bell Select	10 types	
	5. Phone Number	Display own number	
	6. Memory Search	Search stored phone numbers	
	7. Voice Mail	Identify voice messages	
	8.Clear All	Enable/Disable	
2. Additional	1 Auto timeout	2-9 Sec.	4 Sec
	2. 1 Minutes alert	Enable/Disable	Enable
	3. Recall Number	Redial Button (on idle state)	
	4. Speed dial	Enable/Disable	Enable
	5. Keypad Lock	[Enable/Disable]LONG “#” KEY PRESSED	

4.1 Volume / Ring

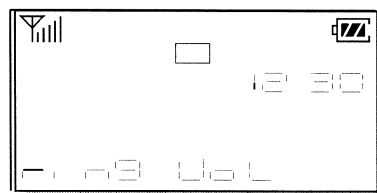
This menu allows you to adjust the various different volumes.

4.1.1 Ring Volume

The received tone when you receive a call can be adjusted.

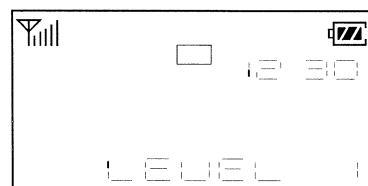
- From the MENU

- Press **Function Key** in idle state.
- Press **Navigation LEFT Key** and select ring volume.
- Press Up/Down Key to adjust a volume level
- Press **Navigation LEFT Key** to store the volume level



- By the **Volume** button

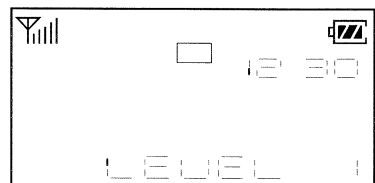
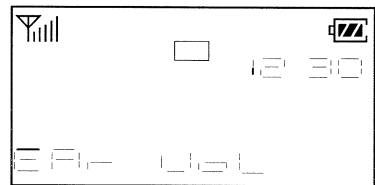
- Press 'Navigation UP / Navigation Down' button to adjust ring volume in idle state



4.1.2 Ear Volume

The tone when you press a key can be adjusted.

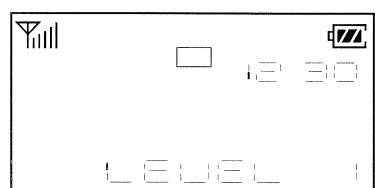
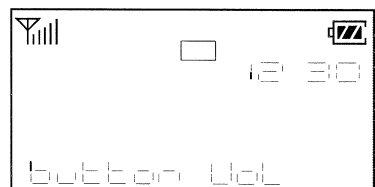
1. Press **Function Key** in idle state .
2. Press '**Navigation Down**' Key (Navigation UP seven times) once
3. Press **Navigation LEFT Key** and select Ear volume.
4. Press Up/Down Key to adjust a volume level
5. Press **Navigation LEFT Key** to store the volume level



4.1.3 Button Volume

The voice of the other party can be adjusted in idle state.

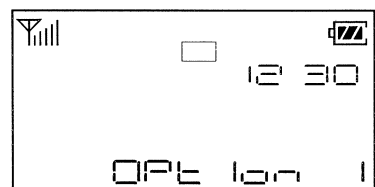
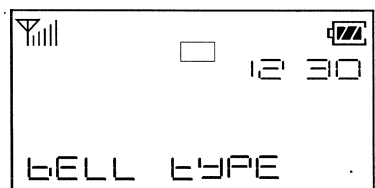
1. Press **Function Key** in idle state
2. Press '**Navigation Down**' Key (Navigation UP six times) twice
3. Press **Navigation LEFT Key** and select Button volume
4. Press Up/Down Key to adjust a volume level
5. Press **Navigation LEFT Key** to store the volume level



4.1.4 Bell Select

You can select the various ring types

1. Press **Function Key** in idle state
 2. Press '**Navigation Down**' Key (Navigation UP five times) three times
 3. Press **Navigation LEFT Key** and select Button volume
 4. Press Up/Down Key to select a ring type
- ✓ There are 10 different ring types.
 - ✓ Those are Standard, Option 1, Option 2, Option 3, Option 4, Habanera, Deutsch song, La Primavera, Oh! susanna, Beethoven

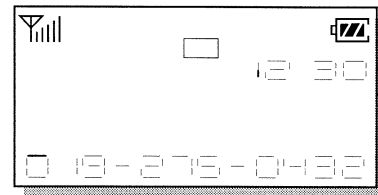
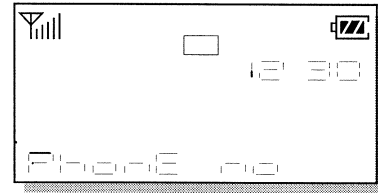


5. Press **Navigation LEFT Key** to store the volume level

4.1.5 Phone number

You can see your phone number.

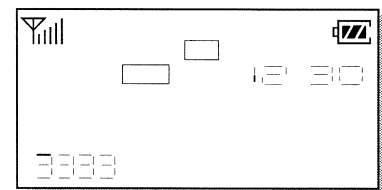
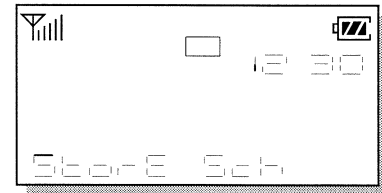
1. Press **Function Key** in idle state
2. Press 'Navigation Down' Key (Navigation UP four times)
four times
3. Press Navigation LEFT Key
4. Your phone number will be displayed on the screen
5. Press END or Navigation RIGHT'Key to escape



4.1.6 Memory Search

You can search phone numbers In the memory

1. Press **Function Key** in idle state
2. Press 'Navigation Down' Key (Navigation UP three times)
five times
3. Press Navigation LEFT Key and select memory search
4. Press Up/Down Key to see a phone number
 - ✓ Numbers are listed as order of stored sequence
 - ✓ Number(1~9) of stored memory is seen on LCD
5. Press END or Navigation RIGHT'Key to escape

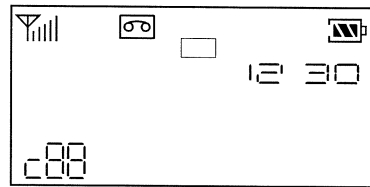
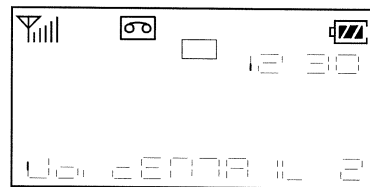


4.1.7 Voice Mail

Voice mail notifications indicate a new voice mail message in your mail box. Only the most recent voice mail notification will be stored in the WLL phone; previous messages will be overwritten. When a voice mail messages left for you, the WLL phone will alert and display the voice message icon.

You must call your voice mail service to retrieve these messages.

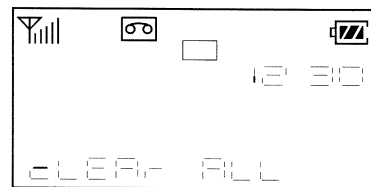
1. Press **Function Key** in idle state
2. Press 'Navigation Down' Key (Navigation UP twice)
six times
3. Press Navigation LEFT Key and select voice message
4. Press Send Key to make a call to call back your voice mail
box if the number of the voice mail box is provided by system.



4.1.8 Clear all

this sub menu erase all Received Voice Messages.

1. Press **Function Key** in idle state
2. Press 'Navigation Down' (Navigation UP once) Key
seven times
3. Press Navigation LEFT Key and select Clear all
4. Press Navigation LEFT Key to erase all received Voice
messages.



4.2 Additional feature

4.2.1 Auto Time-out

Default setting the length of time the phone waits before automatically dialing a number.

The default setting is 4 seconds..

4.2.2 Minute Alert

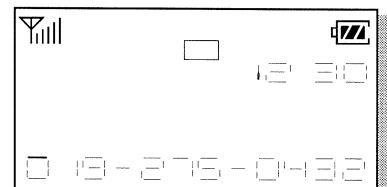
This function alerts you every minute during a call.

The default setting is 1 minute.

4.2.3 Last Call

This function enables you to redial the last outgoing number.

1. Press Redial Key button.
2. Search a phone number using Navigation UP/Down key
3. Press Send Key to make a call.



4.2.4 Speed dial

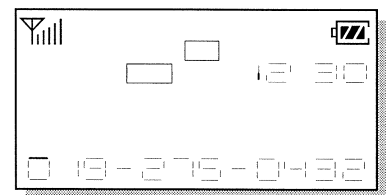
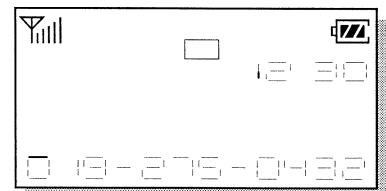
Frequently used phone numbers can be stored on the memory locations (1~12) and you can make a call by pressing memory location number in idle state.

- Speed Dial Function

1. You can store phone numbers in memory locations (1~12) and place a call.
2. Press the memory number (1 through 9) corresponding to the appropriate memory location or Press M1,M2,M3 Key and then hold for a few seconds.

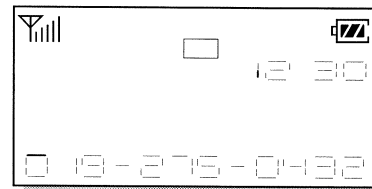
- The method of setting a speed dial number.

1. Enter the area code and phone number in idle state.
(Max. 32 digits)
2. Press Redial Key and Enter the desired memory location using 1~9 key or M1/M2/M3 key
3. Press Redial Key again to save the number.



- **How to use a speed dial number.(1)**

1. Press the desired memory location for a few seconds using
1 ~ 9 key or M1/M2/M3 key

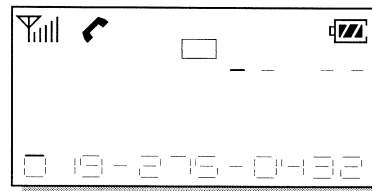


2. Press Send Key.

- ✓ You can try the second process before the first process.

- **How to use a speed dial number.(2)**

1. Activate the Memory Search sub menu.
2. Choose the desired number.
3. Press Send key



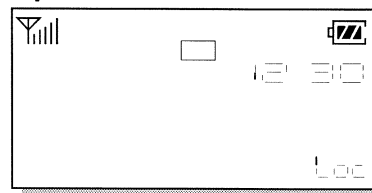
- **How to identify a speed dial number**

- ✓ Press the desired memory location for a few seconds using 1 ~ 9 key
- ✓ Press the M1/M2/M3 key
- ✓ Activate the Memory Search sub menu and identify the desired number.

4.2.5 Keypad lock

This function prevents your phone from being used without permission

1. Press **'#' Key** long in idle state and key lock function activates
2. Press **'#' Key** again to deactivate the key lock function



5. Backlight

, (h/w)

6. General Information

Main Unit

Item	LSI-1000
Tx Frequency	Digital : 1850 ~ 1910 MHz
Rx Frequency	Digital : 1930 ~ 1990 MHz
Channel Bandwidth	1.25 MHz
Tx Power	Digital : Max. 0.2W
Rx Sensitivity	-104 ~ -25dBm
Size	161 X 45 X 35.7 (L X W X H)
Weight(g)	Below 809(with battery, Ni-MH)
	Below 748 (without battery)
Operating Temperature	0 ~ 50

AC/DC Adapter

Item	SMPS Type Description
Input Voltage	AC 100 ~ 250V / 0.3A, 15W
Input Frequency	50 / 60Hz
Output Voltage	12V(DC), 500mA

Battery

Item	Description
Capacity	3.7V Li-ion 750mAh
Talk duration time	0.75 Hours
Standby duration time	9 Hours
Charging duration time	Quick, 3 Hours

Licensed by QUALCOMM Incorporated under one or more of the following Patents:

U.S, Patent No. 4,901,307 U.S, Patent No. 5,056,109 U.S, Patent No. 5,099,204

U.S, Patent No. 5,101,501 U.S, Patent No. 5,103,459 U.S, Patent No. 5,107,225