

**EX27988**

30-Channel 2.4 GHz
Cordless Telephone with dual mode Caller ID
User's Guide



INTRODUCTION

CAUTION: When using telephone equipment, there are basic safety instructions that should always be followed. Refer to the **IMPORTANT SAFETY INSTRUCTIONS** provided with this product and save them for future reference.

Your Caller ID phone stores and displays specific information, provided by your local telephone company, to subscribers of Caller ID or similar caller identification services. You must subscribe to one of these services in order to use this unit.

Your Caller ID phone enables you to:

- Identify callers before you answer the phone.
- View the time and date of each incoming call.
- Record up to 50 Caller ID messages sequentially.
- Know who called while you were away.

To get the most from your new phone, we suggest that you take a few minutes right now to read through this user's guide.

IMPORTANT: In order to use all of the features of this unit, you must subscribe to the standard Number Caller ID Service.

IMPORTANT: Because cordless phones operate on electricity, you should have at least one phone in your home that isn't cordless, in case the power in your home goes out.

HEARING AID COMPATIBILITY (HAC)

This telephone system meets FCC standards for Hearing Aid Compatibility.

WARNING: TO PREVENT FIRE OR ELECTRICAL SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION: RISK OF ELECTRIC SHOCK DO NOT OPEN

THE LIGHTNING FLASH AND ARROW HEAD WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF "DANGEROUS VOLTAGE" INSIDE THE PRODUCT.

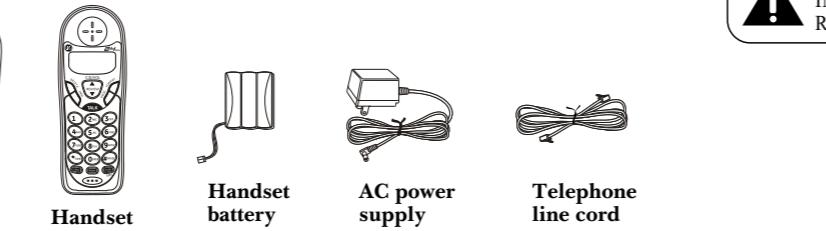
THE EXCLAMATION POINT WITHIN THE TRIANGLE IS A WARNING SIGN ALERTING YOU OF IMPORTANT INSTRUCTIONS ACCOMPANYING THE PRODUCT.

SEE MARKING ON BOTTOM / BACK OF PRODUCT

BEFORE YOU BEGIN

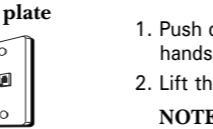
PARTS CHECKLIST

Make sure your package includes the items shown here.



MODULAR JACK REQUIREMENTS

You will need an RJ11C type modular phone jack, which is the most common type of phone jack and might look like the one pictured here. If you don't have a modular jack, call your local phone company to find out how to get one installed.



INSTALLATION NOTE: Some cordless telephones operate at frequencies that may cause interference to nearby TVs, microwave ovens, and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV, microwave oven, or VCR. If such interference continues, move the cordless telephone farther away from these appliances.

Certain other communications devices may also use the 2.4 GHz frequency for communication, and, if not properly set, these devices may interfere with each other and/or your new telephone. If you are concerned with interference, please refer to the owner's manual for these devices on how to properly set channels to avoid interference. Typical devices that may use the 2.4 GHz frequency for communication include wireless audio/video senders, wireless computer networks, multi-handset cordless telephone systems, and some long-range cordless telephone systems.

DIGITAL SECURITY SYSTEM
 Your cordless phone uses a digital security system to provide protection against false ringing, unauthorized access, and charges to your phone line. When you place the handset in the base, the unit verifies its security code. After a power outage or battery replacement, you should place the handset in the base for the code.

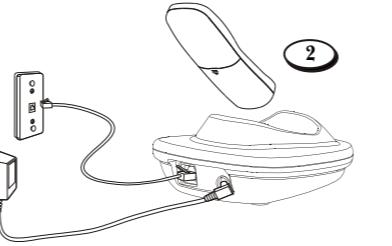
IMPORTANT INSTALLATION INFORMATION

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals, unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Temporarily disconnect any equipment connected to the phone such as faxes, other phones, or modems.

INSTALLING THE PHONE

Your telephone should be placed on a level surface such as a desk or table top.

NOTE: The handset must be charged facing up.



DATE / TIME SET

- Press the PROG button, 'SET 1 DATE' shows in the display.
- Press the PROG button again to enter the set mode. The digit of month is flashing.
- Use the REVIEW up / down button to change the number.
- Afterwards, press PROG button for confirmation and shift the digit of the day.
- The day hour and minutes can be set subsequently as step 3.

10. 8. 10:00
SET 1 DATE

10. 8. 10:00

LOCAL AREA CODE

- Press the PROG button then REVIEW up / down until 'SET 2 CODE' shows in the display.
- Press the PROG button again to enter the set mode. The 1st digit of code is flashing.
- Press the digit button (0..9) to change the number. Once a number is entered, it will shift to next digit.
- The 2nd, 3rd, 4th digit can be set subsequently.
- Press the PROG button to confirm the setting.

10. 8. 10:00
SET 2 CODE

10. 8. 10:00
CODE *---

RINGER LOUDNESS

- Press the PROG button then REVIEW up / down until 'SET 3 RING' shows in the display.
- Press the PROG button again to enter the set mode.
- Press the REVIEW up / down to change the setting, from 0 off to 4 highest level.
- Press the PROG button to confirm the setting.

10. 8. 10:00
SET 3 RING

10. 8. 10:00
RING 4

TONE / PULSE MODE

- Press the PROG button then REVIEW up / down until 'SET 4 T-P' shows in the display.
- Press the PROG button again to enter the set mode. The wordings 'tone' or 'pulse' is flashing.
- Use the REVIEW up / down to change the dialing mode between Tone and Pulse.
- Press the PROG button to confirm the setting.

10. 8. 10:00
SET 4 T-P

10. 8. 10:00
TONE

10. 8. 10:00
PULSE

FLASH TIME

- Press the PROG button then REVIEW up / down until 'SET 5 FLASH' shows in the display.
- Press the PROG button again to enter the set mode. The wordings '600' (default) is flashing.
- Use the REVIEW up / down to change the setting between 100, 200 or 300ms.
- Press the PROG button to confirm the setting.

10. 8. 10:00
SET 5 FLASH

10. 8. 10:00
FLASH 300

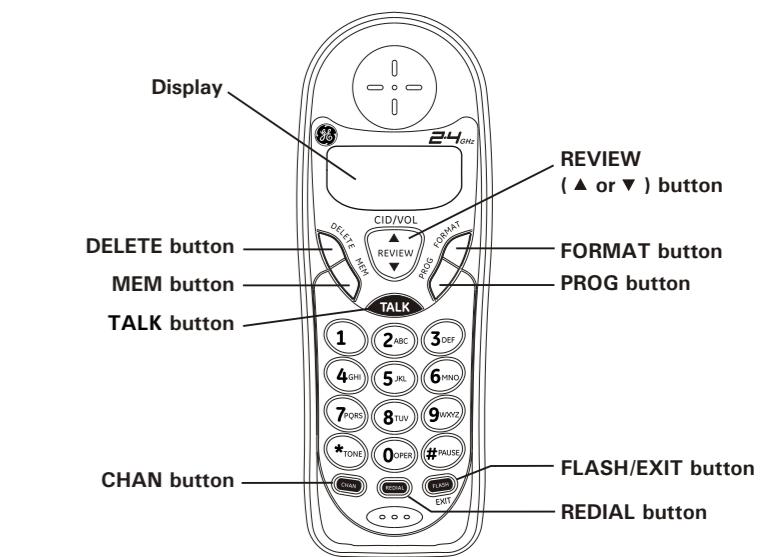
SONG

- Press the PROG button then REVIEW up / down until 'SET 6 SONG' shows in the display.
- Press the PROG button again to enter the set mode.
- Press the REVIEW up / down to choose one of seven song.
- Press the PROG button to confirm the choice.

10. 8. 10:00
SET 6 SONG

10. 8. 10:00
SONG 6

CORDLESS PHONE BASICS



RECEIVING A CALL

- To answer a call press the TALK button on the handset before you begin speaking.
- To hang up, press the TALK button or place the handset in the base cradle.

MAKING A CALL

- Press the TALK button and dial the desired number.
-OR-
Dial the number first then press the TALK Button.
- To hang up, press the TALK button or place the handset in the base cradle.

REDIAL

While the phone is on, press the REDIAL button to quickly redial the last number you dialed (up to 32 digits). If you get a busy signal, and want to keep dialing the number, just press REDIAL again (you don't have to turn the phone off and back on).

FLASH

Press the FLASH button to activate customer calling services, such as call transfer, which are services provided by your local phone company.

TIP: Don't use the TALK button to activate custom calling services such as call waiting, or you'll hang up the phone.

IN USE INDICATOR

When handset is either in-use or charging, the in-use / charge indicator on base is lit. When you receive a call, the indicator flashes.

CHANNEL BUTTON

While talking, you might need to manually change the channel in order to get rid of static. Press and release the CHAN button to advance to the next clear channel.

CANCEL

Press the FLASH button to cancel any command you initiated.

PAGING THE HANDSET

This feature helps to locate a misplaced handset. Press the PAGE button on the base. The handset beeps continuously for about 2 minutes, you can press the PAGE or FLASH button to terminate the paging or TALK Button to get the line.

NOTE: You can still page the handset if the ringer is tuned off. If the battery is dead, the paging feature will not work.

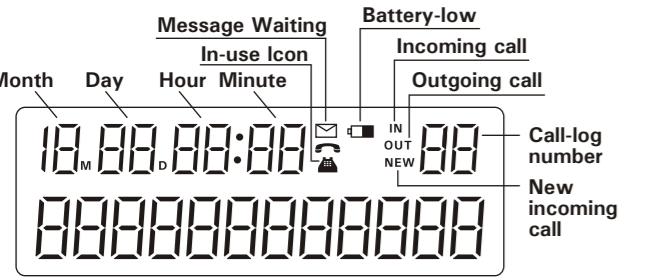
VOLUME

When the phone is ON, press the CID/VOL (up or down arrow) on the handset to adjust the volume of the handset's earpiece. There are four settings, press the up arrow to increase the volume or down arrow to decrease the volume.

CALLER ID FEATURES

Caller ID (CID) is a service available from your local telephone company. For Caller ID to work on this system, you must subscribe to Caller ID service. This unit has a capacity to receive the FSK and DTMF caller ID without any setting.

This information may include the phone number, date and time; The unit stores up to 50 calls for later review.



RECEIVING AND STORING CALLS

When you receive a call, the information is transmitted by the phone company to your Caller ID telephone between the first and second ring.

When the memory is full, a new call automatically replaces the oldest call in memory. NEW appears in the display for calls received that have not been reviewed.

VERY IMPORTANT: The Caller ID feature of this product requires a subscription to Caller ID service from your telephone company.

REVIEWING RECORDS

As calls are received and stored, the display is updated to let you know how many calls have been received.

- Make sure the phone is OFF (not in talk mode).
- Press the <▼> button to scroll through the call records from the most recent to the oldest.
- Press the <▲> button to scroll through the call records from the oldest to the newest.

TRANSFERRING CID RECORDS TO MEMORY

You may transfer a Caller ID record to your phone's memory.

1. Use the <▲> or <▼> button to scroll to the desired record.
2. Press the MEM button.
3. Press the desired memory location. (0 - 9) Example, press the number 1 key to store the record in memory location 1.
4. You will hear a confirmation tone.
5. If the memory has a content, it will be replaced by a new entry.

DELETING RECORDS

Use the DELETE button to erase the record currently shown in the display or all records.

DELETING THE CURRENT RECORD

1. Make sure the phone is OFF (not in talk mode).
2. Use the <▲> or <▼> buttons to display the desired Caller ID record.
3. Press DELETE. The display shows 'dEL ONE'.
4. Press DELETE again to erase the record and the next Caller ID record shows in the display. You will hear a confirmation tone.

DELETING ALL RECORDS

1. Make sure the phone is OFF (not in talk mode).
2. Use the <▲> or <▼> buttons to display any Caller ID record.
3. Press and hold DELETE button for 3 Sec. 'dEL ALL' shows in the display.
4. Press DELETE again to erase all records. You will hear a confirmation tone.

DIALING A CALLER ID NUMBER

1. Make sure the phone is OFF (not in talk mode).
2. Use the <▲> or <▼> buttons to display the desired Caller ID record.
3. If the number does not dial as shown, press the FORMAT button. Repeat if necessary, until the correct number of digits shows in the display.
4. Press TALK. The number dials automatically.

CALLER ID MESSAGE

The following indicators show the status of a message.

- P-- The person is calling from a number that has been blocked from transmission.
- O-- The person is calling from a number that is out of area from transmission.
- E-- Caller information has been interrupted during transmission or the phone line is excessively noisy.

MEMORY

Store up to ten 16-digit numbers in memory for quick dialing. This memory feature is in addition to the 50 Caller ID records that can be stored in the Caller ID memory log.

STORING A NUMBER IN MEMORY

1. Make sure the phone is OFF (not in talk mode).
2. Press the MEM button.
3. Press the desired memory location (0 - 9), or selected by <▲> <▼> button.
4. Press the MEM button again to enter the edit mode.
5. Use the number keypad to enter the telephone number you want to store (up to 16 digits).
6. If wrong entry, press DELETE button to delete one digit.
7. Press MEM again to store the number. You will hear a confirmation tone.
8. If the memory has a content, it will be replaced by a new entry.

STORING A REDIAL NUMBER

1. Make sure the phone is OFF (not in talk mode).
2. Press the REDIAL button to display the last dialed number.
3. Press the MEM button.
4. Press the desired memory location (0 - 9). Then you will hear a confirmation tone.
5. If the memory has a content, it will be replaced by a new entry.

REVIEWING AND DELETING STORED NUMBERS

1. Press MEM, then use the <▲> or <▼> buttons to view the entry. Or use the touch tone pad on your handset to enter the memory location.
2. While the entry is displayed, press DELETE to delete the entry. The display shows DELETE a flashing 'DEL'.
3. Press DELETE a second times to delete the entry. You will hear a confirmation tone.

DIALING A STORED NUMBER

1. Make sure the phone is OFF (not in talk mode).
2. Press MEM button.
3. Use the <▲> or <▼> buttons to scroll through the numbers stored in memory until the desired number is shown.
4. Press TALK. The numbers dial automatically.

IMPORTANT: If you make test calls to emergency numbers stored in memory, remain on the line and briefly explain the reason for the call to the dispatcher. Also, it's a good idea to make these calls in off-peak hours, such as early morning or late evening.

CHAIN DIALING FROM MEMORY

Use this feature to make calls which require a sequence of numbers such as using a calling card for a frequently called long distance number. Basically, you dial each part of the sequence from memory. The following example shows how you can use chain dialing to make a call through a long distance service:

The Number For	Memory Location
Long distance access number	7
Authorization code	8
Frequently called long distance number	9

1. Make sure the phone is ON.
2. Press MEM and then press 7.
3. When you hear the access tone, press MEM and then press 8.
4. At the next access tone, press MEM and then 9.

TIP: Wait for the access tones before pressing the next memory button, or your call might not go through.

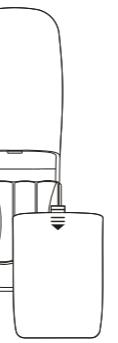
INSERTING A PAUSE IN THE DIALING SEQUENCE

Press the # PAUSE button to insert a delay in the dialing sequence of a stored telephone number when a pause is needed to wait for a dial tone (for example after you dial 9 for an outside line, or to wait for a computer access tone). PAUSE shows on the display as a "P". and counts as 1 digit in the dialing sequence. If you need a longer Pause, press the # Pause button twice.

CHANGING THE BATTERY

Make sure the telephone is OFF before you replace battery.

1. Remove the battery compartment door.
2. Disconnect the battery plug from the jack inside the battery compartment and remove the battery pack from the handset.
3. Insert the new battery pack and connect the plug to the jack inside the handset battery compartment with correct polarity.
4. Put the battery compartment door back on.
5. Place handset in the base to charge. Allow the handset battery to properly charge (for 12 hours) prior to first use or when you install a new battery pack. If you do not properly charge the phone, battery performance will be compromised.



NOTE: If the battery is not installed in the handset, or if the battery pack is not properly connected to the jack inside the battery compartment, Battery-low icon shows in the display when the handset is placed in the charging cradle.

CAUTION: To reduce the risk of fire or personal injury, use only the battery listed in the instruction book.

BATTERY SAFETY PRECAUTIONS

- Do not burn, disassemble, mutilate, or puncture. Like other batteries of this type, toxic materials could be released which can cause injury.
- To reduce the risk of fire or personal injury, use only the battery listed in the User's Guide.
- Keep batteries out of the reach of children.
- Remove batteries if storing over 30 days.

GENERAL PRODUCT CARE

To keep your telephone working and looking good, follow these guidelines:

- Avoid putting the phone near heating appliances and devices that generate electrical noise (for example, motors or fluorescent lamps).
- DO NOT expose to direct sunlight or moisture.
- Avoid dropping and other rough treatment to the phone.
- Clean with a soft cloth.
- Never use a strong cleaning agent or abrasive powder because this will damage the finish.
- Press TALK. The numbers dial automatically.

CAUSES OF POOR RECEPTION

- Aluminum siding.
- Foil backing on insulation.
- Heating ducts and other metal construction can shield radio signals.
- You're too close to appliances such as microwaves, stoves, computers, etc.
- Atmospheric conditions, such as strong storms.
- Base is installed in the basement or lower floor of the house.
- Base is plugged into an AC outlet with other electronic devices.
- Baby monitor is using the same frequency.
- Handset battery is low.
- You're out of range of the base.

HANDSET SOUND SIGNALS

Signal	Meaning
A long warbling tone (with ringer on)	Signals an incoming call
Three short beeps (several times)	Page signal
One beep every 10 seconds	Low battery warning

TROUBLESHOOTING TIPS

CALLER ID SOLUTIONS

No Display

- The battery must be fully charged. Try replacing the battery.
- Make sure that the unit is connected to a non-switched electrical outlet. Disconnect the unit from the wall and plug it in again.
- You must be subscribed to Caller ID service from your local telephone company in order to receive Caller ID records.

Caller ID Error Message

- The unit displays this message if it detects anything other than valid Caller ID information during the silent period after the first ring. This message indicates either the presence of noise on the line, or that an invalid message has been sent from the telephone company.

TELEPHONE SOLUTIONS

No dial tone

- Check installation:
 - Make sure the base power cord is connected to a working electrical outlet.
 - Make sure the telephone line cord is connected to the base unit and the wall phone jack.
- Connect another phone to the same modular jack; if the second phone doesn't work, the problem might be with your wiring or local service.
- The handset may be out of range of the base. Move closer to the base.
- Make sure the battery is properly charged (for 12 hours).
- Ensure the battery pack is installed correctly.
- Did the handset beep when you pressed the TALK/call back button? Did the charge/in use indicator come on? The battery may need to be charged.

Dial tone is OK, but can't dial out

- Make sure the tone/pulse setting is programmed correctly.

Handset does not ring

- Make sure the RINGER loudness on the handset is set to 1 or 2.
- Move closer to the base. The handset may be out of range.
- You may have too many extension phones on your line. Try unplugging some phones.
- Check for a dial tone.

You experience static, noise, or fading in and out

- Change channels.
- The handset maybe out of range. Move closer to the base.
- Relocate the base.
- Charge the battery.
- Make sure base is not plugged into an electrical outlet with another household appliance.

Unit beeps

- Place handset in base cradle for 20 seconds to reset the security code. If it doesn't work, charge the battery for 12 hours.
- Clean the charging contacts on the handset and base with a soft cloth.
- See solutions for "No dial tone."
- Replace the battery.

Memory Dialing doesn't work

- Make sure you programmed the memory location keys correctly.
- Did you follow proper dialing sequence?
- Make sure the tone/pulse setting is programmed correctly.
- Did you reprogram numbers into memory after power outage or battery replacement?

Phone dials in pulse with tone service

- Make sure phone is in tone dialing mode.

Phone won't dial out with pulse service

- Make sure phone is in pulse dialing mode.

INTERFERENCE INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

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 (that is, the antenna for radio or television that is "receiving" the interference).
- Reorient or relocate and increase the separation between the telecommunications equipment and receiving antenna.
- Connect the telecommunications equipment into an outlet on a circuit different from that to which the receiving antenna is connected.

If these measures do not eliminate the interference, please consult your dealer or an experienced radio/television technician for additional suggestions.

SAFETY INSTRUCTION

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

TECHNICAL SPECIFICATIONS

AC / DC Adaptor	MA132-090020 Input : 120V AC / 60Hz Output : 9V DC, 200mA Single-phase AC excluding IT installations defined by the UL standard. Caution : the network voltage is classified as a hazard by the criteria of this standard.
A10920	Input : 120V AC / 60Hz Output : 9V DC, 200mA Single-phase AC excluding IT installations defined by the UL standard. Caution : the network voltage is classified as a hazard by the criteria of this standard.
A20920G	Input : 230V AC / 50Hz Output : 9V DC, 200mA Single-phase AC excluding IT installations defined by the EN60950 standard. Caution : the network voltage is classified as a hazard by the criteria of this standard.
3515-0920-ADC	Input : 230V AC / 50Hz Output : 9V DC, 200mA Single-phase AC excluding IT installations defined by the EN60950 standard. Caution : the network voltage is classified as a hazard by the criteria of this standard.
Rechargeable Battery	SANIKI Brand, 3SN-AAA60H-S1B, 3.6V / 600mAh / NIMH, AAA size x 3