

User Guide

CLARITY
Professional

5.8 GHz Amplified Cordless Speakerphone

With Caller ID & Call Waiting

(Supports up to 3 additional handsets)

C4220™



E
N
G
L
I
S
H

E
S
P
A
Ñ
O
L

F
R
A
N
C
A
I
S

TABLE OF CONTENTS

Getting Started

Safety Instruction	4
Parts Checklist	7
Quick Reference Guide	8

Installation 12

Telephone Operation

Basic Handset Operation	13
Basic Base Operation	17
Other Features on Handset.....	18
Date and Time	19

Initial Setup 21

Phonebook	23
Caller ID	27

Troubleshooting..... 30

Technical Specifications 32

FCC Requirements and Regulations..... 33

Warranty and Service 36

Introduction

Thank you for purchasing the C4220 5.8 GHz amplified cordless phone, from Clarity. Using our patented Digital Clarity Power, the C4220 clearly amplifies incoming sound up to 50 dB while cutting out background noise.

This User Guide and Quick Start Guide will provide you with the information you need to use your C4220 effectively, easily and safely. Read this manual thoroughly before using this telephone. Keep the manual near the phone for easy reference.

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the telephone.
3. Do not use this telephone near a bath tub, wash basin, kitchen sink or laundry tub, in a wet basement, near a swimming pool or anywhere else there is water.
4. Avoid using a telephone (other than a cordless type) during a storm. There may be a remote risk of electrical shock from lightning.
5. Do not use the telephone to report a gas leak in the vicinity of the leak.
6. Unplug this telephone from the wall outlets before cleaning. Do not use liquid cleaners or aerosol cleaners on the telephone. Use a damp cloth for cleaning.
7. Place this telephone on a stable surface. Serious damage and/or injury may result if the telephone falls.
8. Do not cover the slots and openings on this telephone. This telephone should never be placed near or over a radiator or heat register. This telephone should not be placed in a built-in installation unless proper ventilation is provided.
9. Operate this telephone using the electrical voltage as stated on the base unit or in the owner's manual. If you are not sure of the voltage in your home, consult your dealer or local power company.
10. Do not place anything on the power cord. Install the telephone where no one will step or trip on the cord.
11. Do not overload wall outlets or extension cords as this can increase the risk of fire or electrical shock.
12. Never push any objects through the slots in the telephone. They can touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock. Never spill liquid of any kind on the telephone.
13. To reduce the risk of electrical shock, do not take this phone apart. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
14. Unplug this product from the wall outlet and refer servicing to the manufacturer under the following conditions:
 - A. When the power supply cord or plug is frayed or damaged.
 - B. If liquid has been spilled into the product.
 - C. If the telephone has been exposed to rain or water.
 - D. If the telephone does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

instructions. Improper adjustment may require extensive work by a qualified technician to restore the telephone to normal operation.

- E. If the telephone has been dropped or the case has been damaged.
 - F. If the telephone exhibits a distinct change in performance.
- 15. Never install telephone wiring during a lightning storm.
 - 16. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
 - 17. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
 - 18. Use caution when installing or modifying telephone lines.
 - 19. Use only the power cord and batteries indicated in the manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
 - 20. Plug the AC adaptor into the outlet that is nearest and most accessible to the telephone.

Exposure to high volume sound levels may damage your hearing. Although there is no single volume setting that is appropriate for everyone, you should always use the handset with the volume set at moderate levels and avoid prolonged exposure to high volume sound levels. The louder the volume,

the less time is required before your hearing could be affected. If you experience hearing discomfort, you should stop using the handset. To protect your hearing, some hearing experts suggest that you:

- 1. Set the volume control in a low position and then adjust the volume to a comfortable level.
- 2. Limit the amount of time you use the handset at high volume.
- 3. Avoid turning up the volume to block out noisy surroundings.

CHILDREN: Never allow children to play with the product – small parts may be a choking hazard and the amplified volume may cause hearing damage.

SAFETY INSTRUCTIONS FOR BATTERIES

Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

- 1. Use only the approved battery pack in the handset of your cordless phone.

Rechargeable Battery

GPI International Ltd.:
3.6V 800mAh Ni-MH AAA
GP80AAAH3BXZ

- 2. Do not dispose of the battery in a fire as it may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

SAFETY INSTRUCTIONS

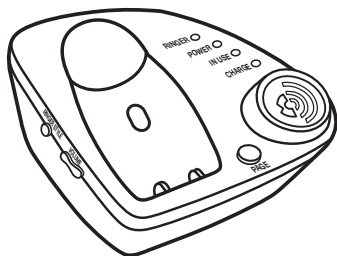
3. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes and skin. It may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets and keys. The battery or conduction material may overheat and cause burns.
5. Charge the battery (ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
6. Observe proper polarity orientation between the battery pack and the battery charger.

Pacemaker Warning:

If you or a member of your household has a pacemaker or other medical device, consult your physician or the manufacturer of the pacemaker or medical device before using this product. The product should be used in accordance with the guidelines provided by your physician or the manufacturer of the pacemaker or medical device.

SAVE THESE INSTRUCTIONS

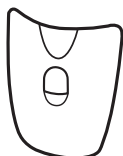
CONTENTS & PARTS CHECKLIST



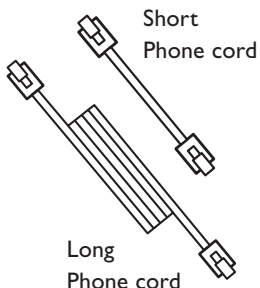
Base



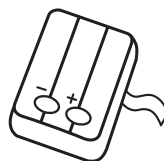
Handset



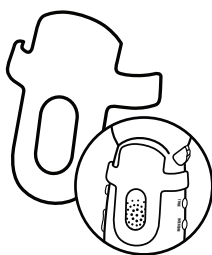
Battery
compartment cover



Long
Phone cord



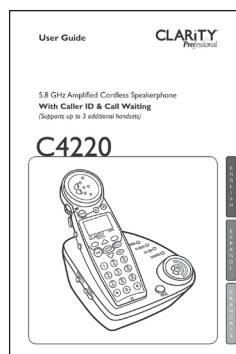
Battery pack



Belt clip



AC power adapter



User guide

BASE FUNCTION KEYS**1 Ringer Style Button**

Press to control the ringer tone and style.

2 Volume

Press to control the speaker and ringer volumes.

3 Ringer Style LED Light

LED will light up when the base ringer is set to OFF.

4 Power LED

LED will light up when the power is ON.

5 In Use LED

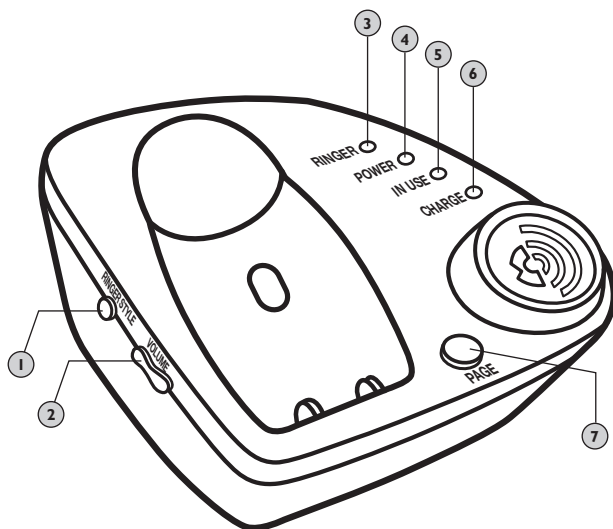
LED will light up when the phone is in use.

6 Charge LED

LED will light up when phone is charging.

7 Page Button

Press to page handset.



HANDSET

1 Volume Control

The dial controls the volume level of the handset, headset or neckloop, and ringer volumes.

2 Boost

When pressed, an extra level of amplification is added over the entire range of volume.

3 Speaker

Press to activate handset speakerphone. Press again to switch back to earpiece.

4 Soft Keys

Press a soft key to select a menu item displayed just above the key.

5 Arrow Buttons

Press up or down Arrows to navigate through the menus.

6 Talk

To make a call Press the TALK button then dial number.

7 Help Key

Press Help Key button to dial preprogrammed number.

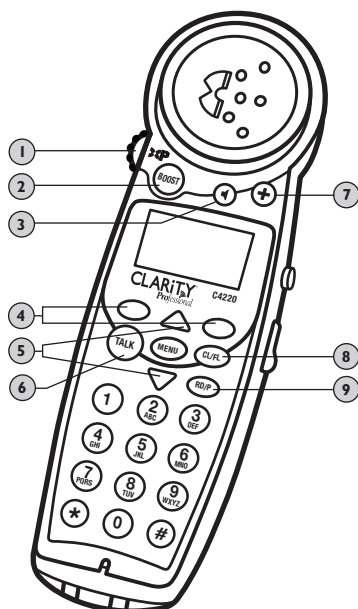
8 Flash/Clear

Flash: Call Waiting service is required. While on a call Press (CL/FL) to receive another incoming call.

Clear: While in the menu Press (CL/FL) to go back to the main menu.

9 Redial/Pause

Press to redial (RD/P) last number dialed or insert Pause (2 seconds) when programming memories or pre-dialing.



HANDSET**10 Headset**

A 2.5 mm headset can be used in the Headset Port.
(We recommend the Plantronics M214C headset.)

11 Tone

Press to select the audio tone for the handset. Boost must be ON to activate tone selection.

12 Intercom

Press to call Base or other handset on system.

13 Ringer ON/OFF

Switch to turn Handset Ringer On.

14 Neck Loop

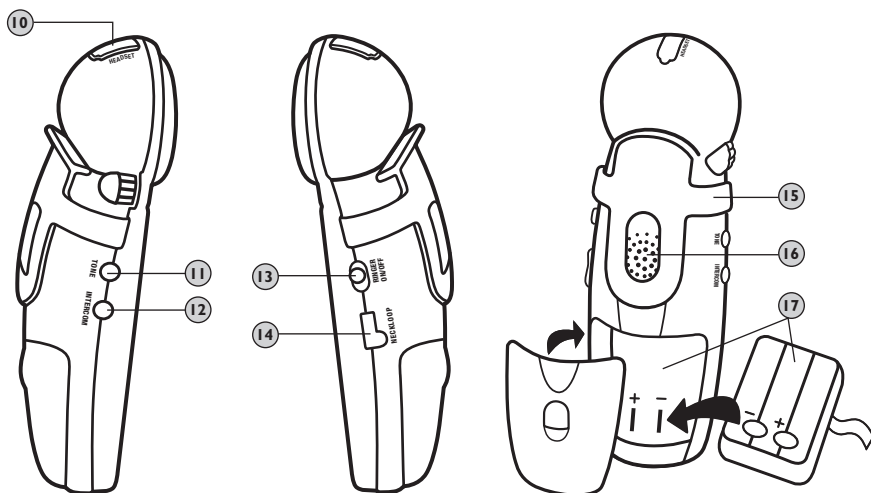
A 3.5 mm neck loop can be used in the Neck Loop Port.

15 Belt clip

Slide belt clip onto handset as shown.

16 Speaker grill**17 Battery**

Insert battery pack such that (+) and (-) on battery touch spring in battery compartment.

**NOTE:**

Install belt clip to back of phone as shown.

For hands-free conversations, headset with a 2.5mm plug may be purchased separately.

IMPORTANT:

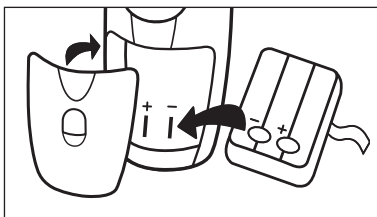
Circular metal contacts on battery need to touch the metal springs inside battery compartment.

Charging your battery

Battery must be initially charged for a full 12 hours before first use. Failure to fully charge the battery may result in the battery developing a memory. If the battery develops a memory, it will hold less charge with each following charge. Eventually the battery would have to be replaced. **Important:** *You must charge the handset 12 hours before using in order for the handset to register properly to the base.*

IMPORTANT

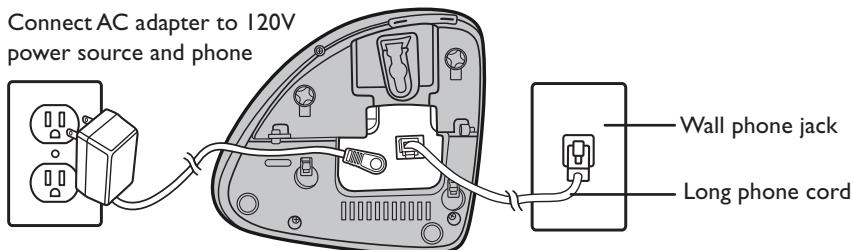
Handset battery must
charge for **12 hours**
before using.



Place handset in base
for battery charge

PHONE CONNECTIONS FOR DESKTOP USE

Connect AC adapter to 120V power source and phone

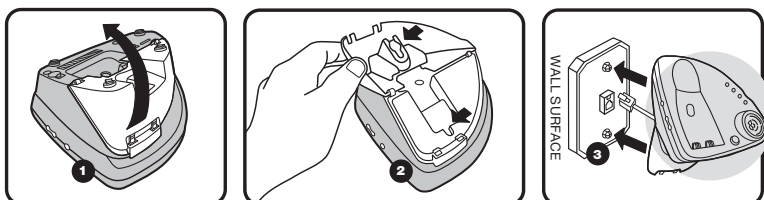


The **phone cord** plugs into the C4220 phone base as shown above. Plug the other end of the **phone cord** into a telephone wall jack.

Connect the **AC adapter** to the back of the base and a 120V wall outlet as shown above.

To avoid potential interference, the phone should not be located near electronic equipment, such as personal computers, televisions or microwave ovens.

WALL MOUNT INSTALLATION



Follow steps 1 and 2 to adapt the phone base for wall installations.

Note: A short phone cord is required.

HOW TO DIAL OR RECEIVE A CALL

1. Complete connection instructions shown in this guide.
2. Install and **charge battery** as shown on page 10.
3. Make sure **RED LED light is on**.
4. To answer a call press TALK on the handset.
5. When placing a call press TALK and then dial number.
6. After completing a call press TALK again and return handset to base unit.

TELEPHONE OPERATIONS

BASIC HANDSET OPERATIONS

Answering Calls

To answer a call press TALK.

Press FLASH during a call to answer a second call.
(If you have call waiting service)

Making Calls

To make a call, press TALK, then dial number. To end call, press TALK again, or place handset onto base.

Hands-Free Speakerphone Calls

Press Speaker  to answer incoming calls.

To make an outgoing call, press Speaker; then dial number. To change back for normal handset use, press Speaker again.

To end call, press TALK.

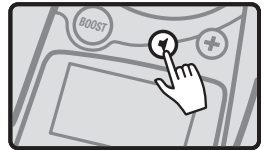
Digital Clarity Power™ Technology

With Digital Clarity Power, high frequency sounds are amplified more than low frequency sounds so words are not just louder, but clearer and easier to understand. It also provides intelligent amplification to make soft sounds audible, while keeping loud sounds bearable.

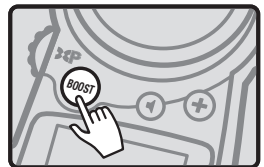
BOOST On/Off

The BOOST button controls the loudness of the receiver. Once the BOOST button is pressed, an extra level of amplification is added over the entire range of volume control.

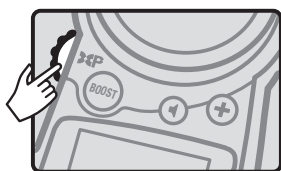
ANSWERING AND MAKING CALLS



BOOST ON/OFF



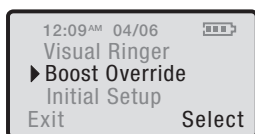
TELEPHONE OPERATIONS



Volume Control

During a call the dial on the side controls the level of volume for handset and speakerphone. The volume dial provides up to 16dB of volume before the BOOST button is activated. Once the BOOST button is pressed, the C4220 will provide up to 50dB of amplification.

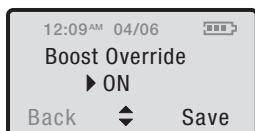
When phone is not in use, the dial on the side controls the level of the ringer volume.



Boost Override

Select Boost Override on the Main Menu. Use the Arrow buttons to scroll from ON to OFF. Select your choice and then press the (soft key) Save.

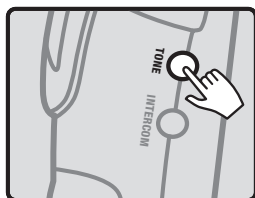
BOOST OVERRIDE (ON/OFF)



ON – When the Boost override is set to ON, the Boost function will be ON every time a call starts. If the phone hangs up, the Boost will remain ON.

OFF – When the Boost is set to OFF, the Boost function will be OFF. Every time a call starts, the user will need to press the BOOST button in order to gain the extra level of amplification. If the phone hangs up, the BOOST button will reset to OFF.

ADJUSTING TONE



Audio Tone

Press the Tone button to change the style of amplification. Switching audio tones will change how the telephone conversation sounds to you. See the matrix on page 15 for general recommendations on audio tones based on your particular hearing situation.

TELEPHONE OPERATIONS

General Recommendations for Tone Settings on the C4220™ Telephone*

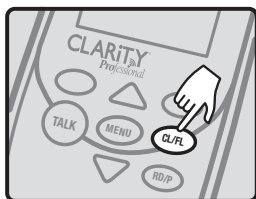
	Audio Tone 1	Audio Tone 2	Audio Tone 3	Audio Tone 4
Amplification Type	Bass Low Frequency Amplification	Flat Frequency Amplification	Clarity Power	Multiband Compression- Low
Setting Emphasis	Power/Loudness	Power/Loudness	Power/Loudness	Speech Intelligibility
User listens while wearing Digital Hearing Aids		●	●	
User listens while wearing Analog Hearing Aids				●
User has difficulty understanding speech on telephone				●
User with Noise Induced Hearing Loss	●			
Mild to Moderate Hearing Loss	●			●
With some High Frequency Hearing Loss			●	
With significant High Frequency Hearing Loss				●
With Low Frequency Hearing Loss	●			
Moderate to Severe Hearing Loss		●	●	
With High Frequency Hearing Loss			●	●
With Low Frequency Hearing Loss	●			
With Loss across All Frequencies		●		

*Notes:

1. These are general recommendations. Hearing loss is specific to each individual; therefore, Clarity® recommends an end user tries all four setting to see which will work best for their particular hearing condition.
2. Boost must be on for audio tone settings to activate.
3. Noise reduction, acoustic echo cancellation and all other DCP™ features are active regardless of the tone setting.

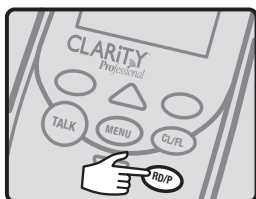
TELEPHONE OPERATIONS

BASIC HANDSET OPERATIONS



Flash

The FLASH (CL/FL) button is activated to use custom calling services such as Call Waiting or Three Way Calling. Please contact your local telephone company for information on these services.



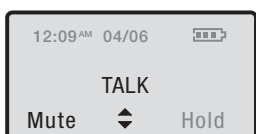
Last number dialed

Press RD/P to call last number dialed.

The last number dialed (up to 32 digits) is stored in the redial memory until another number is dialed.

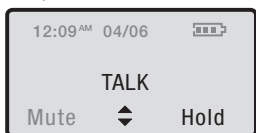
Pause Feature

Programming in a pause will cause the phone to wait two (2) seconds before dialing additional numbers. This feature may be used when it is necessary to dial an access code (9, for example). Wait for the second dial tone, and then dial the outside number. Press the RD/P button at the required point during the memory storage process to program a pause.



Mute and Hold

Press the (soft key) Mute on the handset and "Mute" will be displayed. This will turn the microphone off on the handset.



Press the (soft key) Hold on the menu to hold the line.

Press the (soft key) Unhold to return to the dialing screen and to your call.

Dialing (Tone/Pulse)

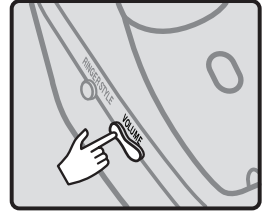
(See Page 22 for instructions)

TELEPHONE OPERATIONS

BASIC BASE OPERATIONS

Volume Control

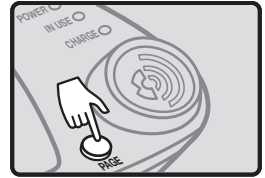
VOLUME UP and VOLUME DOWN buttons are used to adjust the volume of the ringer.



Page

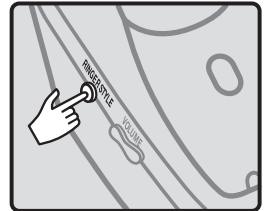
Press PAGE button to page handset. To stop Paging, do one of the following:

1. Press the Page button again on the base.
2. Press the (soft key) EXIT on the handset.
3. Wait for 2 minutes until paging times out.



Ringer Style

The ringer style adjustments are located on the side of the telephone base. The style of ring can be adjusted by pressing the RING STYLE key. Six (6) styles are available allowing you to customize the ring on the base. To help choose a ring style, each ring tone will sound for 2 seconds as the choices are scrolled through.



Visual Ringer

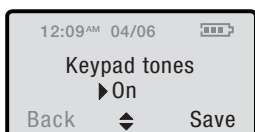
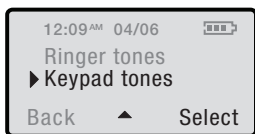
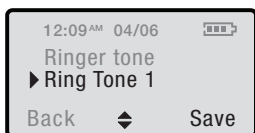
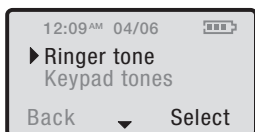
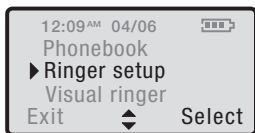
Visual ringers are located in the base. When an incoming call is received, these lights will flash.



TELEPHONE OPERATIONS

OTHER FEATURES ON HANDSET

RINGER SETUP



Ringer Setup

Use the Arrow buttons to scroll down the main menu to Ringer Setup. Press the (soft key) Select to choose Ringer Setup. Then choose from the submenu: Ringer Tone or Keypad Tones.

Ringer Tone: The default Ringer tone will be set to (Ring Tone 1). To change ring tone select Ringer tone from the submenu.

Note: There are six (6) Ring Tones to choose from.

Use the Arrow buttons to scroll up and down to choose the ringer style. The ring styles will play as the selections are scrolled through. (The ringer Off/On switch must be On). Select the desired ring tone and then press the (soft key) Save. This will take you back to the submenu.

Keypad Tones: The Keypad Tones are defaulted to On. To turn the keypad tones Off, go to the Keypad tones, and press the (soft key) Select.

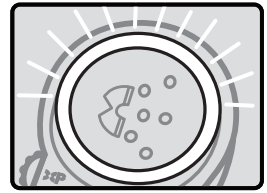
Use the Arrow buttons to scroll down to On or Off. Make your selection, and then press the (soft key) Save.

TELEPHONE OPERATIONS

Visual Ringer

A Visual ringer is located in the handset. When an incoming call is received, the light will flash.

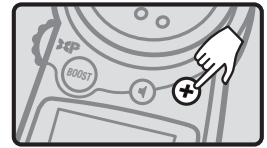
To turn off the Visual Ringer select Menu, scroll down to Visual Ringer and press Select. Next, scroll to Off and press the (soft key) Save.



HELP Key / Memory Storage

The HELP Button can be programmed with up to 24 digits.

1. Press the HELP Button.
2. Dial the number you wish to store.
3. Press the HELP Button again.
4. A long beep will indicate the programming process is complete.



IMPORTANT: The HELP Button is **NOT** pre-programmed for 911. **We do not recommend programming 911 into your phone memory.**

To Place Call Using Help Key

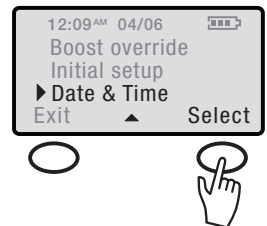
Press the Help Button.
(The phone will dial the preprogrammed number)

Date and Time

Note: If you have Caller ID service the Date and Time will automatically set when you receive your first call. (Caller ID will not auto set Day of Week)

Select DATE AND TIME on the menu screen.

SELECT DATE AND TIME

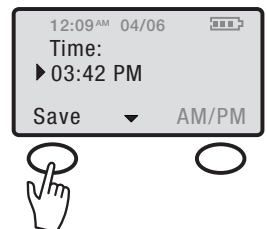


The screen will then display a time with the hour blinking.

Use the key pad to enter the desired time.

Four digits must be entered: (08:25). Press the (soft key) AM/PM to change from AM to PM.

SET TIME



TELEPHONE OPERATIONS

SELECT TIME FORMAT

12:09^{AM} 04/06 

Time format:
▶ 12 hour clock

Save  Change



Press the Arrow buttons down and Time format will appear on the screen. Use the (soft key) Change to select the desired time format: 12 hour clock or a 24 hour clock.

SELECT DATE FORMAT

12:09^{AM} 04/06 

Date format:
▶ MM/DD

Save  Change



Press the Arrow button down again, and choose Date format. Use the (soft key) Change to select DD/MM or MM/DD. (DD/MM stands for Date/Month and MM/DD stands for Month/Date.)

SET MONTH AND DATE

12:09^{AM} 04/06 

Date (MM/DD)
▶ 04/06

Save 



Press the Arrow button down again to enter the Date. Four digits must be entered: (04/06).

Once the date and time have been entered, press the (soft key) Save to save settings.

12:09^{AM} 04/06 

WEEKDAY
▶ FRI

Save  Change



Press the Arrow button down again and choose the weekday. Use the (soft key) Change to select day of the week. Once the day of the week has been entered, press the (soft key) Save to save setting.

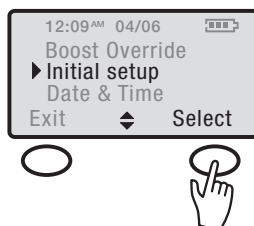
TELEPHONE OPERATIONS

INITIAL SETUP

Select Initial Setup on the main menu. The sub menu will then display:

- Registration
- Auto Talk
- Language
- Dialing Mode
- LCD Contrast

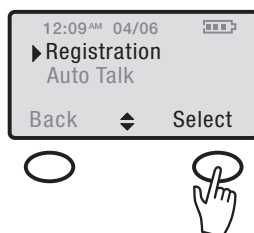
INITIAL SETUP



Registration

The handset that comes with the base will automatically be registered to the base. It will be named Handset 1. The C4220 will support up to 3 additional handsets. If any additional handsets are purchased the registration instructions will come with the purchased handset. Contact Clarity Customer Service for information on purchasing additional handsets.

INITIAL SETUP



Auto Talk

Auto Talk allows the user to remove Handset from the base during an incoming call and immediately start talking without pressing the Talk Button.

Auto Talk's default is set to Off. When picking the handset off the base, press the Talk button to answer the phone.

For the handset to automatically answer after removing it from the base, set Auto Talk to ON.

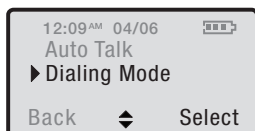
Select Auto Talk on the submenu. Scroll to ON or OFF, select the preferred setting, and then press the (soft key) Save.

SETTING AUTO TALK



TELEPHONE OPERATIONS

SETUP DIALING MODE



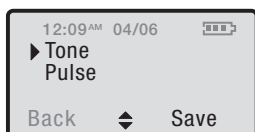
Dialing Mode

Tone or Pulse

Based on the type of telephone service you have, use tone for touch-tone service or pulse for rotary dialing.

Select Dialing Mode on the submenu. “Tone” or “Pulse” will then be displayed. The pointer will be pointed to the current setting.

SELECT DIALING MODE



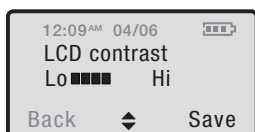
Use the Arrow buttons to scroll between Tone and Pulse.

Press the (soft key) Save to save the setting and return to the Main Menu Screen.

Or

Press the * button and dial number to temporarily switch from pulse to tone.

SET LCD CONTRAST

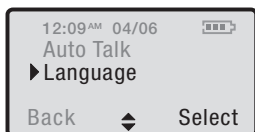


LCD Contrast

Select LCD Contrast on the submenu.

Use the Arrow buttons to scroll from Lo to Hi.

Select the desired setting, and then press the (soft key) Save. This will save the setting and return to the Main Menu Screen.



Language Menu

Select Initial setup on the main menu.

TELEPHONE OPERATIONS

Use the Arrow buttons to scroll down and select language on the menu. Choices include English, French or Spanish. Make your selection and press the (soft key) Save. Press the MENU button to return to the main screen.



Handset Phonebook /Memory Storage

The C4220 will hold up to 40 names in the phonebook. The maximum characters for the name entry are 10. Up to 24 digits can be entered for the phone number.

Error tones and timeouts

If more than 10 characters for the name or 24 digits for the phone number are entered, an error tone will sound and the character or number will not be accepted.

To enter a pause, dial the number, and press the pound # button twice or press the RD/P Button. This will enter a two (2) second pause

New Phone book entries

To enter names:

Select PhoneBook in the main menu.

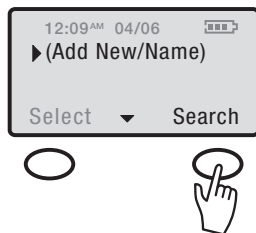
SELECT PHONEBOOK



Select "Add New Name" on the sub menu. "Name:" will be displayed on the screen. Type in the name using the dialing pad. If a mistake is made press the (soft key) Clear to clear the last letter.

To add a space between names, press the # button.

NEW PHONEBOOK ENTRY



TELEPHONE OPERATIONS

EXAMPLE

- Press once to enter "A"
ABC Press twice to enter "B"
2 Press 3 times to enter "C"
Press 4 times to enter "2"



ADDING NAME TO PHONEBOOK

12:09 AM 04/06 

Name:

▶ —

Save ▼ Clear



Next, press the Arrow button down to enter phone number.

NEW PHONE NUMBER ENTRY

12:09 AM 04/06 

NUMBER:

▶ —

Save ▲ Clear



To enter phone number:

After pressing the Arrow button down, "Number:" will be displayed on the screen.

Type in the number using the keypad. If a mistake is made press the (soft key) Clear to clear the last digit. Press the (soft key) Save and the number and the name will be saved.

If the Names list is full while the user selects New Entry, the word "FULL" is displayed on the screen. Press Exit to return to the NAMES menu. If the Names memory is full, a new entry can be entered after the deletion of another entry.

To Edit or Erase Entries

Use the Arrow buttons to browse through the phonebook. Select the desired name to edit or delete, and press the (soft key) Option.

12:09 AM 04/06 

(Add new name)

▶ Clarity

Options ▼ View

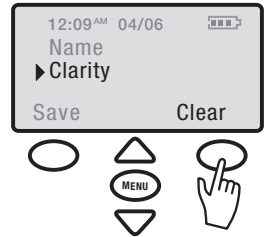


TELEPHONE OPERATIONS

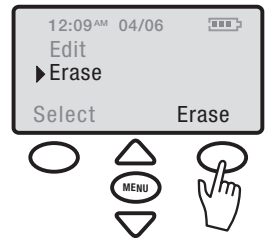
The screen will display Edit or Erase. Select Edit.



To edit name use the (soft key) Clear to clear the letters of the name. Retype in the changes then press the (soft key) Save to save the changes.



To Erase Name and Number select the (soft key) Erase. "Erase phonebk Entry" will appear.



Choose Yes to erase entry or No to keep entry as is. After making a selection, the main phonebook menu will reappear on the screen.

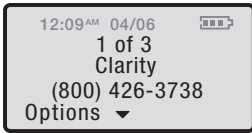


Saving Caller ID information into Phonebook

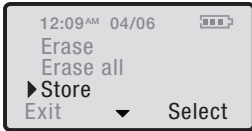
Select Caller List on the Main Menu. Then select the desired name to be stored into the phonebook.



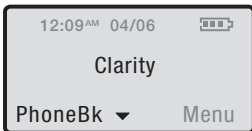
TELEPHONE OPERATIONS



Press the (soft key) Options. Then use the Arrow buttons to scroll down to Store.



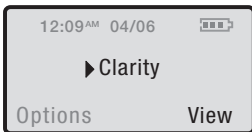
Press the (soft key) Select to store the name and number into the phonebook.



Phonebook Search

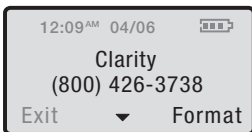
Select Phonebook on the main menu.

Use the Arrow buttons to scroll down the list of names stored in the phonebook. This list of names will be stored alphabetically.



Press the (soft key) View to view name and number.

If there is no entry to select, "Empty List" will display.



When viewing the phonebook entry, press the (soft key) Format to place the area code in parenthesis or add 1 in front of the area code.

To Dial from Phonebook

Select the desired name and number from the Phonebook, and press the TALK button. This will automatically dial the selected phonebook entry.

TELEPHONE OPERATIONS

CALLER ID OPERATIONS

NOTE: *This is a service that is provided through your local telephone company.*

This telephone will automatically display the incoming caller's name and number along with the date and time of the call. It will record up to forty (40) calls and store the data into memory.

Incoming Call

"Incoming Call" will blink on the handset display when a new call is received. The first row on the display will have the caller's ID. If there is no information, the row will be blank. The second row displays the incoming telephone number. If the number is longer than 12 digits, the LCD will toggle the displayed number between the first 12 digits and the remaining digits.



Receiving Call Waiting Caller ID

When you are on an existing call, a tone will emit, and the Caller ID will display the incoming caller's information.

If the 2nd incoming call is not accessed, the Caller ID information will be transferred into the Caller log. This caller information is considered "old".

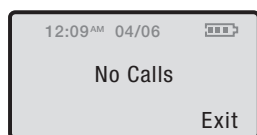
Caller ID Review

If there is new call information, the display will show the number of new calls received before they have been reviewed.

Select Caller List from the main menu. Use Arrow buttons to scroll up or down to view the Caller ID content. The first row of the display indicates the sequence of calls received. Press the Arrow button down to scroll through the Caller ID information from the most recent record to the oldest.

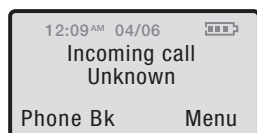


TELEPHONE OPERATIONS



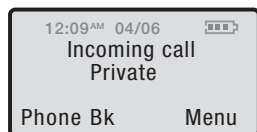
No calls

If the Caller ID list is empty, the display will show "No Calls."



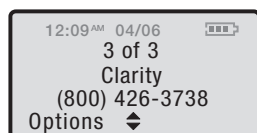
Unknown call

If a call is from another country or the caller's number is not available, UNKNOWN is displayed and stored in the Caller ID log.



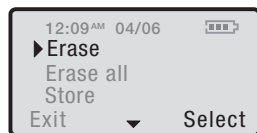
Block Call

If the number is blocked or withheld, PRIVATE is displayed and stored in Caller ID log.



Erasing Caller ID Information

Select the desired CID record you would like to delete. Next, press the (soft key) Options.



Choose erase on the sub-menu, and then press the (soft key) Select.



TELEPHONE OPERATIONS

To erase all entries, scroll down to Erase All.

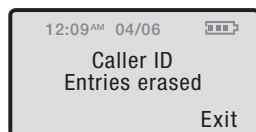
Press the (soft key) Select.



The screen will display “Erase All”. Press the (soft key) Yes.



The screen will then display “Caller ID Entries Erased”.



TROUBLESHOOTING

The unit will not operate/no dial tone:

- Verify the AC Adapter is securely plugged into AC outlet, the base and the telephone.
- Verify the telephone line cord is securely plugged into the wall jack and the telephone.
- Make sure the handset battery is fully charged.
- Make sure the battery has been placed in the battery compartment correctly. (The circular metal contacts on battery need to touch the metal springs inside battery compartment.)
- Verify the telephone is in the correct dialing mode tone (touch) or pulse (rotary).
- Make sure you are in the usable range of the base station.

The phone does not ring when you receive a call:

- Make sure the RINGER switch on the handset and base are set to ON.
- Verify the AC Adapter is securely plugged into the AC outlet, the base and the telephone.
- Verify the telephone line cord is securely plugged into the wall jack and the telephone.
- Make sure you are within the usable range of the base station.
- You may have too many extensions on your line. Try unplugging a few devices.

Noise, Static, Interference or Other Calls Heard while Using the Handset:

- Make sure you are within the usable range of the base station.
- Make sure the handset battery is fully charged.
- Try relocating the base unit to another location.
- Make sure the AC Adapter is not plugged into the wall outlet with other appliances.

TROUBLESHOOTING

Phone Will Not Hold Charge:

- Make sure the charging contacts on the handset and base are free of dust and dirt. While unplugged, clean the contacts with a soft cloth.
- Make sure CHARGE LED on the base is lit when the handset is in the cradle.
- If necessary, replace the handset battery.
- Handset battery may have developed a memory, due to user improperly charging, and may need to be replaced. (Battery must be charged a full 12 hours before the first use.)

Difficulty in Placing or Receiving Calls:

- Move closer to the base and try again.
- Make sure you have selected the correct dialing mode, tone or pulse.
- Make sure the AC Adapter is not plugged into a wall outlet with other appliances. Disconnect for 5-10 seconds then reconnect. Place the handset back on the base and reinsert the AC Adapter.
- Make sure the handset battery is fully charged.

Your Handset Screen is displaying Out of Range

- Move closer to the base.
- Place the handset into the base until the screen displays: "Handset Registered". It will take approximately 5-10 seconds for the handset to register to the base.
- Handset may need to be re-registered to the base manually. First, select INITIAL SETUP on the main menu. Second, select REGISTRATION on the sub-menu. The screen will then display "Please hold the page button until beep." This will register your handset to the base. The screen will then display the handset number.

TECHNICAL SPECIFICATIONS

General

Model Number: C4220
Frequency: 5.8 GHz
Amplification: 50 dB

Handset Unit

Product in Inches: (L x W x H): 7.25 x 2 x 1.25
Weight in Pounds: 0.5 lb.

Base

Product in Inches: (L x W x H): 5 x 5 .50 x 3
Weight in Pounds: .70 lb.
Power Supply: AC Adaptor (Input: 120V AC, 60 Hz; Output: 9V DC, 500 mA)

Handset and Base

Product in Inches: (L x W x H): 7 x 5.50 x 7.75
Weight in Pounds: 1.20 lbs.

Additional Handsets

Clarity Part number: C4230HS
The C4220 will support a total of three (3) additional handsets.
(Additional Handsets sold separately.)

Battery Information

Battery Type: Ni-MH AAA 800 mAh 3.6V
Battery Life Talk Time: 3-4 Hours
Battery Life Standby: 6 days
Contact Clarity customer service for information on purchasing additional handsets or replacement battery.

Clarity Contact information:

Customer Service: 1-800-426-3738
Address: 4289 Bonny Oaks Drive,
Suite 106
Chattanooga, TN 37406

REGULATORY COMPLIANCE

Part 68 of FCC Rules Information

a) This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

b) A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug, RJ11C USOC, is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

c) The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX.

The digits represented by ## are the REN without a decimal point (e.g., 03 is

a REN of 0.3). For earlier products, the REN is separately shown on the label.

d) If this telephone equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

e) The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

f) If trouble is experienced with this telephone equipment, for repair or warranty information, please contact Clarity, 1-800-552-3368. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

g) This telephone equipment is not intended to be repaired and it contains no repairable parts. Opening the equipment or any attempt to perform repairs will void the warranty. For service or repairs, call 1-800-552-3368.

h) Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service

REGULATORY COMPLIANCE

commission or corporation commission for information.

i) If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this telephone equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

j) This telephone equipment is hearing aid compatible.

Customer-Owned Coin/Credit Card Phones:

To comply with state tariffs, the telephone company must be given notification prior to connection. In some states, the state public utility commission, public service commission or corporation commission must give prior approval of connection.

Part 15 of FCC Rules 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.

Your equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in 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, you are encouraged to try to correct the interference by one of the following measures:

1. Where it can be done safely, reorient the receiving television or radio antenna.
2. To the extent possible, relocate the television, radio or other receiver with respect to the telephone equipment. (This increases the separation between the telephone equipment and the receiver.)
3. Connect the telephone equipment into an outlet on a circuit different from that to which the television, radio, or other receiver is connected.
4. Consult the dealer or an experienced Radio/TV Technician for help.

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

REGULATORY COMPLIANCE

Privacy of communications may not be ensured when using this phone.

CAUTION: To maintain the compliance with the FCC's RF exposure guideline, place the base unit at least 20 cm from nearby persons.

For body worn operation, this handset has been tested and meets the FCC RF exposure guidelines when used with the **(Plantronics)** accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

Industry Canada Technical Specifications

This product meets the applicable Industry Canada technical specifications.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations. Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier.

Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

The Ringer Equivalence Number is an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

(The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.)

This Class B digital apparatus complies with Canadian ICES-003.

The party responsible for regulatory compliance:

Clarity, A Division of Plantronics, Inc.
4289 Bonny Oaks Drive, Suite 106
Chattanooga, TN 37406
Phone: 1-800-552-3368

WARRANTY & SERVICE

The following warranty and service information applies only to products purchased and used in the U.S. and Canada. For warranty information in other countries, please contact your local retailer or distributor.

Limited Warranty

Clarity, a division of Plantronics, Inc. ("Clarity") warrants to the original consumer purchaser that, except for limitations and exclusions set forth below, this product shall be free from defects in materials and workmanship for a period of one (1) year from the date of original purchase ("Warranty Period"). The obligation of Clarity under this warranty shall be at Clarity's option, without charge, of any part or unit that proves to be defective in material or workmanship during the Warranty Period.

Exclusions from Warranty

This warranty applies only to defects in factory materials and factory workmanship. Any condition caused by accident, abuse, misuse or improper operation, violation of instructions furnished by Clarity, destruction or alteration, improper electrical voltages or currents, or repair or maintenance attempted by anyone other than Clarity or an authorized service center, is not a

defect covered by this warranty. Telephone companies manufacture different types of equipment and Clarity does not warrant that its equipment is compatible with the equipment of a particular phone company.

Implied Warranties

Under state law, you may be entitled to the benefit of certain implied warranties. These implied warranties will continue in force only during the warranty period. Some states do allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Incidental or Consequential Damages

Neither Clarity nor your retail dealer or selling distributors has any responsibility for any incidental or consequential damages including without limitation, commercial loss or profit, or for any incidental expenses, expenses, loss of time, or inconvenience. Some states do not allow exclusion or limitation of incidental or consequential damage, so the above limitation or exclusion may not apply to you.

Other Legal Rights

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WARRANTY & SERVICE

How to Obtain Warranty Service

To obtain warranty service, please prepay shipment and return the unit to the appropriate facility listed below.

In the United States

Clarity Service Center
4289 Bonny Oaks Drive, Suite 106
Chattanooga, Tennessee 37406

Tel: (423) 622-7793 or
(800) 426-3738
Fax: (423) 622-7646 or
(800) 325-8871

In Canada

Plantronics Service Center
8112 Trans-Canada Hwy.
Ville St. Laurent. Que.
Canada H4S 1M5

Tel: (800) 540-8363
(514) 956-8363
Fax: (514) 956-1825

Please use the original container, or pack the unit(s) in a sturdy carton with sufficient packing material to prevent damage.

Include the following information:

1. A proof-of-purchase indicating model number and date of purchase.
2. Bill-to address.
3. Ship-to address.
4. Number and description of units shipped.
5. Name and telephone number of person to call, should contact be necessary.
6. Reason for return and description of the problem.

Damage occurring during shipment is deemed the responsibility of the carrier, and claims should be made directly with the carrier.

