*EXHIBIT C*

*User Manual*

# VOYAGER

# USER MANUAL

# TABLE OF CONTENTS

Thank you for purchasing "*Voyager*" Cordless Telephone System. To ensure that you enjoy the full capacities of this product, please read this user's manual before operating.

## 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 follow all instructions carefully.
2. Follow all warning and instructions on the product.
3. Unplug this product from the host telephone equipment before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water.
5. Do not place this product on top of metal surface or an unstable cart, stand, or table.
6. Do not allow anything to rest on the power cords. Do not locate this product where the cords will be abused by person's walking on them.
7. Do not use this product in the vicinity of gas leak or any explosive fumes. To report such a hazardous condition, use a telephone away from the area in question.
8. Do not place this product near or over a radiator or heat source.
9. This product should only be operated with the Mains Power Unit supplied.
10. Do not overload the Mains wall outlets and extension cords as this can result in a risk of fire or electric shock.
11. Do not open this product. No user serviceable parts are inside. Take it to a qualified serviceman when service or repair work is required. Opening the product may expose yourself to dangerous voltage or other risks. Incorrect reassemble may result in electric shock when the product is subsequently used.
12. Never spill liquid on the product or push object of any kind through its ventilation slots.
13. Avoid using this product during an electrical storm. There may be a remote risk of electrical shock from lighting.
14. Use only the recommended by the manufacturer and only with the equipment provided by the manufacture. Do not break open batteries or bum them. Dispose of batteries safely. Batteries contain materials that are hazardous to persons and the environment.

# CONTROL PANEL INDICATION

*Base unit (Desk-top)*
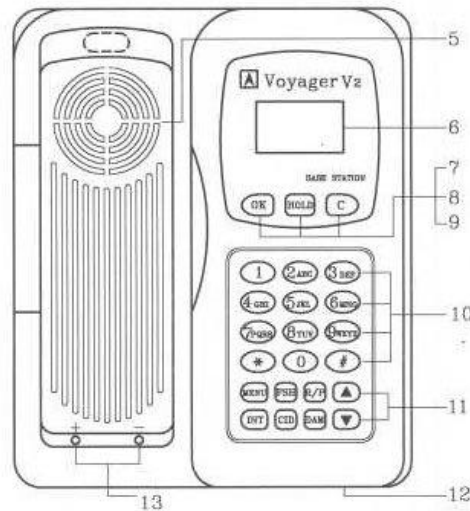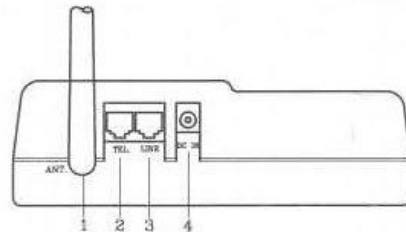
1. Fixed antenna
2. Telephone jack
3. CO Line jack
4. DC power jack
5. Speaker
6. LCD Display
7. "OK": OK(Confirm/Send) key
8. "HOLD" key
9. "C": C(Clear/End) key
10. Dialing keys
11. Function keys
    <u>MENU</u>: Function select key
    <u>F' SH</u>: Flash key /Back space
        while dialing
    <u>R/P</u>: Redial/Pause key
    <u>INT</u>: Intercom key
    <u>CID</u>: Caller ID operation /Store
        and recall speed dial
        number.
    <u>DAM</u>: Digital answering
        Machine operation
        : Volume & select up key
        : Volume & select down
        key
12. Microphone
13. Charging contact point
    *(for charge handset)*

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*Base unit (Wall-mount)*
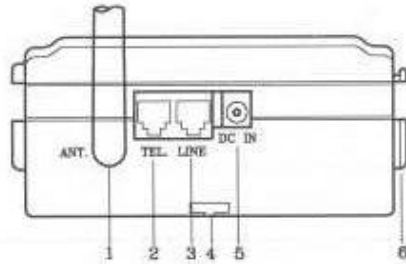


1. Fixed antenna
2. Telephone jack
3. CO. Line jack
4. Line slot
5. DC power jack
6. Connecting slot
7. Speaker
8. Display
9. "C": C(Clear/End) key
10. Hold key
11. "OK": OK(Confirm/Send) key
12. Dialing keys
13. Function keys
   MENU: Function select key
   F' SH: Flash key / back space
         While dialing
   R/P: Redial/Pause key
   INT: Intercom key
   CID: Caller ID operation/ Store
         And recall speed dial
         Number.
   DAM: Digital answering
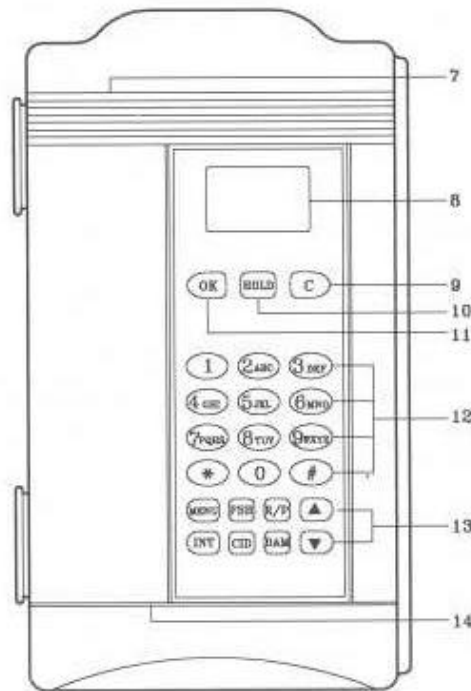         Machine
      : Volume & select up key
      : Volume & select down
         key
14. Microphone

*Handset*
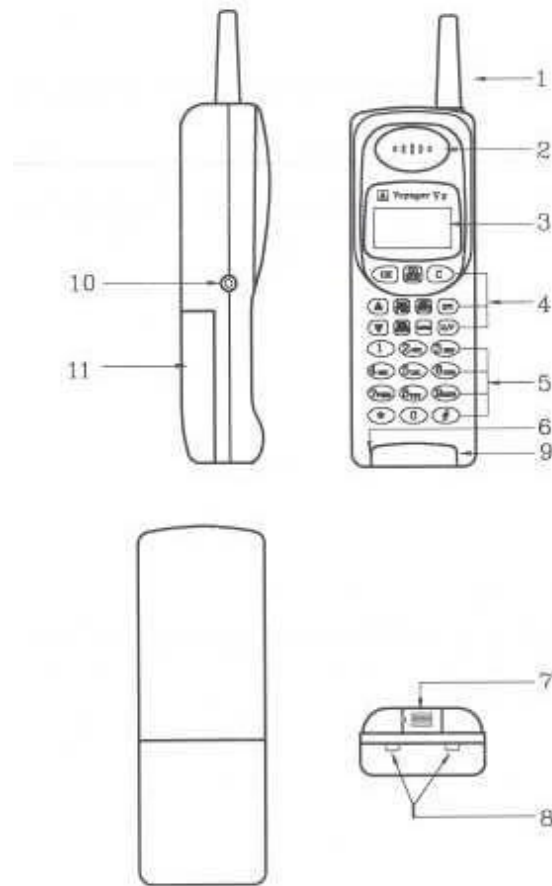
1. Fixed antenna
2. Speaker
3. LCD Display
4. Function keys
 OK: OK(Confirm/Send) key
 CO / SCN:
  CO key at Standby/Scan
  clear channel while talking
 C: Clear (End) key
 DAM / F' SH:
  Flash key / Back space while
  dialing / DAM view function at
  standby
 MIC / HOLD:
  Hold key/ Microphone sensitivity
  adjustment at standby
 INT: Intercom key
 SCR / MENU:
  Voice scramble operation /
  Function key
 MEMO: Store key
 R/P: Redial/Pause key
       : Volume & select up key
       :  Volume & select down key
5. Dialing keys
6. Microphone
7. Releasing latch
8. Battery charging contact point
9. Ringer
10. Audio jack
11. Battery pack

*CO: for wireless PBX
     operation, please refer
      to operation section.

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*Charger Stand*
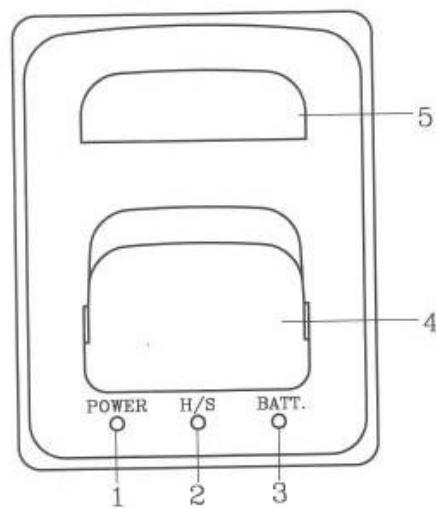
1. Power indicator

2. Handset charging indicator (front slot)

3. Battery charging indicator (rear slot)

4. Charging cradle for handset

5. Charging slot for spare battery

6. DC power jack

7. Discharge button

8. Discharge indicator

POWER   H/S   BATT.

1     2     3

6  7  8

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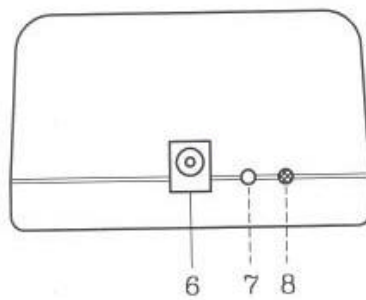
# INSTALLATION

1.   Gently rotate the flexible base antenna until it is positioned vertically.

     **Note:** Incorrect installation of the antennas will affect the
     communication range.

2.   Connect the telephone line cord supplied.  Plug one end into the RJ11
     jack marked "LINE" at the back of the base unit and the other end into
     the power outlet.

3.   Connect the Mains Power adapter supplied. Plug one end of the
     adapter into the 120/230V AC power socket and insert its mini-plug into
     the DC power socket at the back of the base unit. The base unit will
     show "STBY ICM" (standby) on LCD display when power is connected.

     **Note:** Use only the adapter supplied. Use of any other adapter could
     cause serious damage to the base unit

4.   The system is preset for Tone dialing. Changing to Pulse dialing can be
     adjusted in some countries – refer to "Programming Instruction".

5.   It is allowed to connect a telephone to the base by connecting a line
     cord into the "TEL" jack. (Telephone set and line cord are not included.)

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**WARNING**: Use only the power adapter supplied. Use of any other adapter
could damage your cordless phone and risk electric shock.

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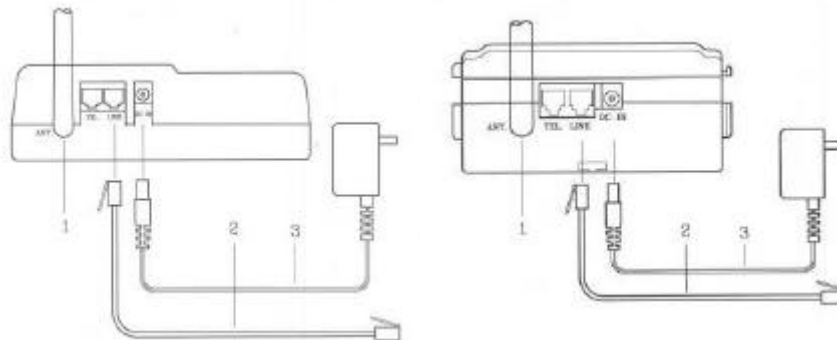
# INSTALLATION

1. Insert the battery pack into the handset and gently push into place.
2. An optional hands-free kit can be purchased separately for hands-free conversations by pluging into the audio jack.
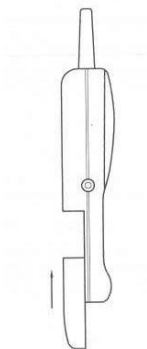
1.                                                              2.

CHARGER STAND

Plug the adapter into the AC power outlet and connect its mini-plug into the power socket at the back of the charger stand. See page 5 for battery charging details.
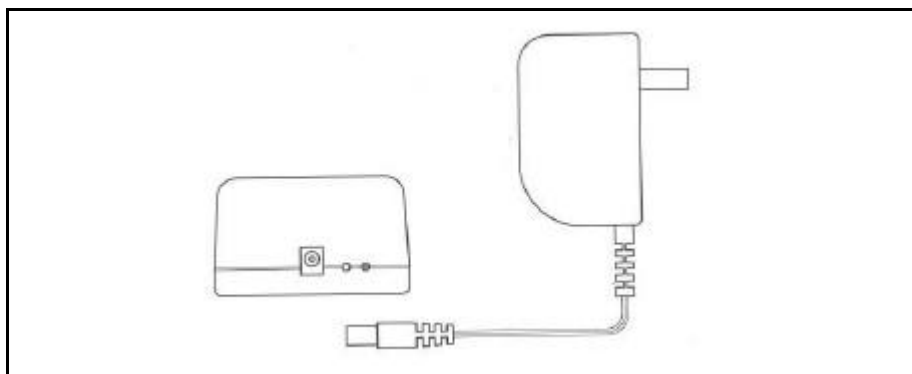
**Note**: When the handset with attached battery is placed in the front slot of the charger stand, the handset CPU will start the charging mangement automatically. The handset will automatically set to standby mode. For incoming calls, the handset will normally ring - except if the battery voltage is too low, and handset will turn itself off.

# INSTALLATION

<u>BATTERIES</u>

Always charge the batteries for 8 hours before use.

The handset with attached 4.8V battery can be put on the desk-top base for charging. The handset must be placed face down to charge.

Wall-mount base cannot charge handset on the base. The handset can be charged on charger stand (front slot) or battery only (rear slot).

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**Special note:**
Please remove the battery from the handset when the battery is completely flat, and place in the rear slot for charging. This avoids possible stress on components caused by increasing voltage during the charge cycle.

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**Required charge time for battery pack** (For reference only)

| ITEM<br>Charge place | 4.8V/600mAH | 4.8/V/1200mAH |
|---|---|---|
| Charging on base | 8 H | 8H |
| Charging on charger stand | 12/2(Q)H | 12/2.5(Q)H |
| Charging on charger slot | 12/1.2(Q)H | 12/1.5(Q)H |

*"Q": charging by quick charger ie front slot only

**Batteries Performance**

| ITEM | 4.8V/600mAH | 4.8V/1200mAH |
|---|---|---|
| Standby Time | 24 hours | 48 hours |
| Continues Talk | 5 hours | 1.7 hours |
| Power OFF | 600 hours | 1200 hours |

It is advisable to place the handset in the charger stand when not in use. In case of not using the handset for a long period, please remove the battery from the phone to avoid the battery over discharging.

# LCD DISPLAY & MESSAGE

| Base | | Handset |
|------|---|---------|
| VOYAGER | Power connected | VOYAGER |

Battery condition

| Base | | Handset |
|------|---|---------|
| STBY ICM  Au   00 | Standby — Power level(Auto) — Voice scramble active | STBY  Au |

| Base | | Handset |
|------|---|---------|
| Call in | Incoming call | RingCO#1 |

Work channel

| Base | | Handset |
|------|---|---------|
| CH68T.ıııll  HS Using | Signal strength — Handset line in use | CH68T.ıııll  AU00-08 |

| Base | | Handset |
|------|---|---------|
| Page #00 | Page H/S No. — Page/Intercom — Page base No. | Page #1 |

| Base | | Handset |
|------|---|---------|
| Line On  AU00-08 | Hold the call (Alarm) Talking time | CH68T.ıııll  Hold  AU00-08 |

| Base | | Handset |
|------|---|---------|
| CH68T.ıııll  Intercom | Intercom | CH68T.ıııll  AU00-08 |

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| Base | | Handset |
|------|------|---------|
| `Volume=4` | Volume select | `SpkVol=4` |
| `Line On`<br>`A 00-08` | Base line in use<br>Microphone sensitivity | `MicVol=4` |
| `DISA`<br>`STBY ICM`<br>`A       00` | DISA active<br>Number of incoming message | |
| `DAM`<br>`STBY ICM`<br>`A       00` | DAM operation<br>DAM active | `1=PlyAll`<br>`2=PlyNew`<br>`3=dEL` |
| `STBY ICM`<br>`A       00` | Handset<br>Charging on base | |
| `Intercom` | Handset To Handset<br>intercom | `CH68`<br>`A 00-08` |
| `Menu`<br>`PhonBook`<br>`ok` | Menu operation | `Menu`<br>`PhonBook`<br>`ok` |

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# OPERATION

**\* Before operation:** Please make sure **base unit** and **handset** are installed correctly.

## Turn ON
Base unit

Plug in power adapter to AC outlet → Connect mini-plug to base unit.

Handset

Load battery onto battery slot.

(When base unit or handset is turned on, the LCD screen will show "VOYAGER" and then get into "Standby" condition.)

## Turn OFF
Base unit

Take off power adapter.

Handset

Unload battery from battery slot.

(1. Keep pressing "C" key on handset till the LCD display shows Power OFF and then handset goes into "Sleep Mode". 2. To wake up the handset by pressing "OK" key. )

## Making calls
Cellular dial mode

Key in phone number → "OK" → Talk → "C"

Note: pressing "F' SH" will delete one digit, "C" will cancel the numbers.

Normal dial mode

"OK" → key in phone number → Talk → "C"

Note: for models with corded handsets on base unit, lifting the handset is same as pressing "OK". The Base can be used as a speakerphone.

## Answering calls on handset
Press any key to answer → Talk → "C"

(The factory's pre-setting is "any key" to answer. The user can change it for "OK" key answer according to Function Setting Instruction in user's manual.)

## Last number redial
Cellular dial mode

"R/P" → "OK" → Talk → "C"

Cordless dial mode
"OK" → "R/P" → Talk → "C"

(Pressing "R/P" key will display the last phone number dialed. Repeated pressing of the "R/P" key will display the last 1 dialed number on base and last 5 dialed numbers on handset.)

## Speed dial mode

To Store in the Base or handset
Base: Phone number → "CID" → "CID" → "0" (0~9 any one digit)
Handset: Phone number → "MEMO" → "MEMO" → "0" (0~9 any one digit)

Speed dial from the Base
Base: "CID" → 0~9 number → "OK" → Talk → "C"

Speed dial from the handset
"MEMO" → 0-9 number → "OK" → Talk → "C"

Phone Book dial mode(from base and handset)
"MENU" → PhoneBook → "OK" → "  /  " (select No.) → "OK" → Talk → "C"

(The phone can store up to 10 telephone numbers in the memory at standby condition. Each set of telephone number has a maximum of 32 digits on base and maximum 24 digits on handset. Note the memories will be saved to the Phone book automatically.)

## Call Transfer (Transfer the call during conversation)
Direct transfer
"INT" → Handset No. or "INT" (to the preferred ringing handset)

Transfer after talking to one party
"HOLD" → "INT" → Handset No. or "INT" → Talk → "F' SH" or "C"

(Pressing "F' SH" key will get back the call. Pressing "C" key will transfer the call to the other party.)
Note:
- If pressing "INT" key on base and within 2 seconds without dial handset No., the system will transfer to preferred ringing handset automatically.
- If pressing "INT" key on handset and within 2 seconds without dial the other handset No., the call will transfer to base automatically.
- The call has been transferred and the other party doesn't receive it within 30 seconds, the original one(base or handset) will ringing again.
- The call has been transferred and the other party doesn't receive the call, the original one can press "OK" key to get back the call.

### Intercom

"INT" → Handset No. (or base No. when working as PBX function)

Note: The handset number should be set first from 10~99.
For duplex handset to handset communication: Both of the handsets do not need to press any key during conversation. (This is an optional function.)

"INT" → "INT" (to the base unit or preferring ringing handset)

### Group paging

"INT" →
(To page all handsets or base units within the same group can be achieved by pressing "INT" →    Note that all the handsets or base units will ring, then stop ringing when any handset or base answers.)

### Transmitting (TX) Power control

When the user selects "AUTO TX POWER" in the programming, the Base and Handset Radio Power levels will automatically adjust for normal operation.

When the user selects manual power control, the Radio Power level can be set on High or Low depending on the required range.

(Please refer to "Programming Instructions" for TX power control setting.)

### Volume control
Press "  " key or press "  " key.
(The volume allocates 8 levels. Level 8 is the maximum. Press "  " or "  " key one time is to adjust one level.)

### Voice Scramble (The factory's presetting is "Inactive". The user has to active this feature by manual operation.)
"SCR" key on handset to active this function → "SCR" again to change the scramble code.
(Under "Inactive" condition, pressing "SCR" will make this function active during conversation for one single call only. When the next call comes in, this function goes back to "Inactive".)

### Active Voice Scramble (Auto-Active)
The user can selects voice scramble function active on "Function Setting", this function auto active during incoming/outgoing/intercom call conversation.
Press "SCR" key will change the code during conversation.

(Note: This function is operated on handset only.)

### Free channel scan on handset
During conversation with interference, press "SCN" key on handset will change another clear channel.


**Talking time control** (for incoming/outgoing call only)
If the unit has the setting of talking time limit, it will alert before 60 seconds to the limit. The factory preset talking time is 60 minutes. User can follow "Programming Instructions" to adjust talking time from 2~99 minutes.


### Handset microphone sensitivity adjustment
Press "HOLD" key.

(The handset microphone sensitivity can be adjusted under standby condition. It allocates 8 levels. Level 8 is the maximum. Press "HOLD" key one time is to adjust one level.)

### PABX (Multi-base) function
If you have more than one base and you want to set up as a PABX system, you can set your bases with the same channel group, security code and set each base as different CO. line number from 1~9. (There are 9 bases maximum can be set in this system. Please refer to "Programming Instructions for details.)

The handset "SCN" key under standby condition is the "CO. line" key. To get a dial tone from a small PBX system, please refer to the following steps:

a. SCN → 1 : Turn on CO. line 1 (SCN → 2: Turn on CO. line 2 ..).
b. SCN → 0 : The handset will scan starting from CO. line 1 and select the free CO. line.
c. SCN : Turn on the preferred base unit.

For Intercom function
a. INT → 1 : Turn on CO. line 1 (INT → 2: Turn on CO. line 2 ..).
b. INT → 0 : The handset will scan starting from CO. line 1 and select the free CO. line.
c. INT : Turn on the preferred base unit.

Note: Please set preferred ringing handset or start DISA function first for PBX system so that the problem of miss the phone call can be avoided if there are 2 incoming calls or over coming together.

# Programming Instructions
## Introduction

The Base units and Handsets can be programmed individually under standby condition to meet local PTT system or the user's requirement if the factory's pre-settings do not meet. Follow the instructions below and refer to the Base and Handset charts.

Press "Menu" key to begin programming. Press the " / " (up/down) keys to select the function option on the charts. Press "OK" to confirm your selection and enter next row or back to previous row.

Use the up/down keys to select the "contents" option on the charts. Press "OK" to select. Use the up/down keys to choose options and press "OK" to confirm the final choice.

Pressing the "C" key will reverse options. Repeated pressing of the "C" key will exit.

Note that the wording on the charts will differ slightly from the wording on the LCD Display.

To activate the "key guard" function, enable the "saving mode" feature on the handset. The display will go blank but will ring on incoming calls. Press "OK" key to "wake up" the handset.

The channel group settings are: Group 1 = channel 1-8.5, Group 2 = channel 8.6-17 ---------------- Group 8 = channel 59.6-68 (Group 0 = all channels, 40 or 68 channels)

For Call Barring the phone, four settings are available:

# Set the first digit to 0. All calls starting with 0 will be barred
# Set the first and second digit to 00. All calls starting with 00 will be barred.
# Set the first, second and third digits to 000. All calls starting with 000 will be barred.
# Setting to "all" will mean no outgoing calls are possible.
**(Our phone is designed to meet different user's requirement and different PTT regulations in every country.  Besides the functions pre-set by factory, there are many functions to be set by the user himself.)**

# Programming Instructions
## Base Unit

| Function | Contents | Selection | Factory Presetting | Remarks |
|---|---|---|---|---|
| 1. Phone Book | 10 numbers in memory / Maximum 26 digits for each number | | | |
| 2. Dial Mode | (1) Dial Type | a. DTMF 050~200 ms | 100 ms | Please make setting according to local system. |
| | | b. Pulse 1:2 10ps/1:2 20ps 2:3 10ps/2:3 20ps | 1:2 10 ps (pps) | |
| | (2) Call Barr (Control) | Inactive/Active (### or All) | Inactive (no control) | This is a function to restrict outgoing call. There are the following situations under "active" mode: 1. -- -- -- = no restriction 2. 000= all numbers are restricted. 3. 1 digit or 2 digits or 3 digits can be restricted as you like. |
| | (3) Pause TM (Time) | T (Time) =0500~8000ms | T (Time) =3000ms | Please make setting according to local system. |
| | (4) Flash TM (Time) | T (Time) =100~990ms | T (Time) =100ms | Please make setting according to local system. |
| 3. Setting | (1) CH Group | 0~8   0=Full Channels | Random or Group 1 | Base & Handset can link only when they are within the same channel group. |
| | (2) Security | a. Password (#### = 4 digits) | 1234 | Don't forget your password. |
| | | b. Security Code (###### = 6 digits) | Random or 123456 | Base & Handset can link only when they have same security code. |
| | (3) Setup | a. CO (Line) No. 1~9 | CO# =1 (Line 1) | The maximum quantity of base is 9 pcs. If you have only 1 base and you change the presetting to CO2, then you have to make same change on handset, too. |
| | | b. Password (Active/Inactive) | Inactive | If you set password under "active", it's necessary to enter your password when you want to go into the functions of Setting and Dial Mode. |
| | | c. Preferred ringing Handset No. (10~99) | 00(=All handsets ring) | This is to set one specific handset that you prefer to ring first when call comes in.  If nobody answers on the specific handset after 45 sec., the other handsets will ring. |
| | | d. 40 or 68 CH. | 68 channels | Base & Handset must have the same setting. |
| | (4) Talking Time control | 00~99 minutes, 00=Free | 60 minutes | Control for outgoing call only. |
| | (5) DISA | Active/inactive | Inactive | Please refer to DISA section. |
| | (6) DAM Ring | 2 or 4 rings | 4 rings | This is for DAM function. |
| 4. Select | (1) Key Click | High/Low/Inactive | Low | Inactive = silent |
| | (2) ID exchange | Active/Inactive | Inactive | Under "active" mode, this function will be done once every 40 sec. |
| | (3) Power Level | High/Low/Auto | Auto | Auto = make adjustment depending on signal strength |
| | (4) Ring Type | Type1~3 & Off VOL (Volume) 1~8 | Type 2 VOL (Volume) =4 | Off = silent |

## Programming Instructions
### Handset

| Function | Contents | Selection | Factory Presetting | Remarks |
|---|---|---|---|---|
| 1. Phone Book | 15 numbers in memory / Maximum 20 Digits for each number | | | 15 numbers = the last 5 dialed numbers + 10 stored numbers |
| 2. Setting | (1) Channel Group | 0~8, 0=Full Channels | Random or Group 1 | Base & Handset can link only when they are within the same channel group. |
| | (2) Call Barr (Control) | Inactive/Active (### or All) | Inactive (no control) | This is a function to restrict outgoing call. There are the following situations under "active" mode:<br>1. -- -- -- = no restriction<br>2. 000= all numbers are restricted.<br>3. 1 digit or 2 digits or 3 digits can be restricted as you like. |
| | (3) Security Code | Security Code (###### = 6 digits) | Random or 123456 | Base & Handset can link only when they have same security code. |
| | (4) Password | Password (#### = 4 digits) | 1234 | Don't forget your password. |
| | (5) Setup | a. Handset No. 10~99 | H/S#=10 | |
| | | b. Password (Active/Inactive) | Inactive | If you set password under "active", it's necessary to enter your password when you want to go into the functions of Setting. |
| | | c. Voice Scramble (Active/Inactive) | Inactive | Under "active", scramble function will always exist. |
| | | d. 40 or 68 CH. | 68 channels | Base & Handset must have the same setting. |
| | | e. Co. (Line) No. 1~9 | CO#=1 | The maximum quantity of base is 9 pcs. If you have only 1 base and you change the presetting to CO2, then you have to make same change on base, too. |
| | (6) Talking Time | 00~99 minutes, 00=Free | 60 minutes | Control for outgoing call only. |
| 3. Select | (1) Saving Mode | Active (key lock)/Inactive | Inactive | Under "active", LCD display will disappear after 20 sec. and all keys will be locked. Any call comes in or pressing OK key will wake up again. |
| | (2) Out Range Beep | Active/Inactive | Inactive | |
| | (3) Answer Mode | a. Ring Type 1~3 | Type=1 | |
| | | b. Ring Volume High/Low/Off | High | Off = No ring when call comes in. |
| | | c. Hands-free (Active/Inactive) | Inactive | Under "active", when the call comes in, you can answer by hands-free after one ring only. |
| | | d. OK or ALL | All = Any key Answer | |
| | | e. Auto on line (Active/Inactive) | Inactive | Under "active", you can answer the call by only picking up the handset without pressing any key when the handset is in charging. |
| | | f. Vibrator (Active/Inactive) | Inactive | |
| | (4) Power Level | High/Low/Auto | Auto | Auto = make adjustment depending on signal strength |
| | (5)Battery low alert | Active/Inactive | Active | |
| | (6) Key Click | High/Low/Off | Low | Off = silent |
| | (7) Back light | Active/Inactive | Active | Active = light keypad |

# DISA/VOICE MAIL/MEMO MESSAGE INTRODUCTION

DISA or Direct inward system access provides an outgoing message to the caller, who can then directly dial the handsets or enter Answering machine by pressing the buttons on their phone .

The Digital answer phone provides an outgoing message to answer incoming callers or recording his message. If there are new messages coming, the LCD display will show how many messages in memory.
It provides 14 minutes message recording capacity (including OGM). The maximum time for each message is 3 minutes. When the 14 minutes is full, the LCD display on both base unit and handset will show "DAM full". The incoming message number displayed cannot exceed 99.
Reviewing recorded message can provide the user to review incoming messages from base or from handset or from CO. line when the user is outside.

Memo messages enable the user to record a message on the answer phone from the Base unit microphone. So, the user can leave message for other family members.

### Outgoing Messages (= OGM)
The unit has 5 outgoing message facilities. 1,2 and 3 are for the DISA operation, 4 is for the OGM message (= voice mail) for the answerphone and 5 is for the Memo message option. Press "DAM" key and LCD will display "DAM view", and then you can play the following outgoing messages.

How to record **OGM 1**:
Press "MENU"    "1"    speak into microphone    press "C" to stop recording.
To listen to OGM 1
Press "INT"    "1"
OGM 1 purpose: An incoming call will be answered by OGM 1 requesting the caller to dial an extension number or an operator.
**e.g.** Press "0" for operator(= preferred handset) and press "*" to record your message.

How to record **OGM 2**:
Press "MENU"    "2"    speak into microphone    press "C" to stop recording.
To listen to OGM 2
Press "INT"    "2"
OGM 2 purpose: If the incoming call is not answered, the caller will hear OGM 2, e.g.  the call was not initially answered and requesting the caller to dial another extension number or operator.
**e.g**. Nobody answers.  Please dial another extension number or press "0" for operator.

How to record **OGM 3**:
Press "MENU"    "3"    speak into microphone    press "C" to stop recording.

To listen to OGM 3
Press "INT"　"3"
OGM 3 purpose: Request the caller to leave message after "beep".
**e.g.** Please leave your message after "beep".


How to record **OGM 4 (Voice Mail)**:
Press "MENU"　"4"　speak into microphone　press "C"
To listen to OGM 4
Press "INT"　"4"
OGM 4 purpose: The outgoing message for the Digital Answering Machine i.e. inviting the caller to leave a message.
**e.g.** I am out now.  Please leave your message after "beep" so that I can contact you as soon as I come back.

How to record **OGM 5 (Memo Message)**:
Press "MENU"　"5"　speak into microphone　press "C"
To listen to OGM 5
Press "INT"　"5"
OGM 5 purpose: Memo recording.
**e.g.** I am out now.  I will be back at 9 o'clock.  Please call my cellular phone in case of emergency.

Note:
1. If you found the voice of outgoing message is not clear, you can record it again and the first one will be erased automatically.
2. The recorded message is 3 minutes maximum for one incoming call in DAM message.


# DISA Operation

Refer to the programming instructions section to enable the DISA option on the Base unit. You can make sure DISA function is active that "DISA" will be displayed on LCD. If required, also change the DAM ID and DAM Ring number.

Program the Base Unit and handsets with identical Security code numbers and Channel group number. Program each handset number with different numbers starting from 10.

Record the DISA OGM messages as per the instructions on the previous page.

**DISA call sequence:**
　**1.** When the base unit receives the incoming call, the DISA system on Base unit will play OGM 1 and wait for the caller's dialing signal.
　**2.** The base unit will follow the caller's dialing signal to transfer the call.
　**3.** If the caller's dialing signal has not been received correctly or the caller does not dial within 8 seconds, the Base unit will play OGM 1 again. After playing OGM1 two times without response, the base unit will cut the call and return to standby condition.

4. When base unit transfers the call to the caller's designated handset which does not answer within 25 seconds, base unit will play OGM 2 and wait for the caller's dialing signal.

5. If the caller's dialing signal has not been received correctly or the caller does not dial within 8 seconds, the base unit will play OGM 1 again. If the caller's dialing signal still has not received correctly or the caller does not dial within 8 seconds, the Base unit will cut the call and return to standby condition.

6. When the base unit transfers the call to the preferred handset which does not answer within 25 seconds, the base unit will ring all the handsets working in the same group.

7. If the caller chooses "leave message" option, the base unit will play OGM 3 and then record the caller's message.

# Voice Mail Operation

**To turn on/off the DAM**
Press "DAM" "DAM" "C" key on Base unit to turn on the DAM. The display will show DAM. Repeat to turn off the DAM.

**To record OGM**
To record the OGM(=outgoing message), record the OGM message number 4.

**DAM sequence:**
1. Once a call comes in, the Base unit will play OGM 4 after 2 or 4 rings. Then, start to record incoming messages.
2. When the base unit rings and plays the OGM 4 to the caller, the user (from the Base or handset) can press "OK" key(or off hook corded handset) to directly answer the caller.

# Listen to Message and Delete Message

**To listen to incoming messages on the Base Unit**
 Press "DAM" key to enter the "DAM view" function.
 Press "OK" key and hold 3 seconds to listen all messages.
 Press "OK" key to listen to new ICM (incoming message).
 While listening to the "ICM", press "  " key to listen to the next message.
 While listening to the "ICM", press "F' SH" key to delete the message.
 While listening to the "ICM", "C" key to go back "DAM view" function.
 Under "DAM view" function, press "F' SH" key for 3 seconds to delete
 all messages.
 Note that the base unit will go back to "STBY" if the user does not press any key
 within 16 seconds after listening to the 'ICM' message.

**To listen to incoming messages on the handset or remote unit.**
Press "F' SH" key to enter DAM mode. Or, press "F SH" key 2 times directly connect to the preset base) to enter DAM mode. Or, press "F' SH' key + CO line No. to enter DAM mode.
Press 1 to play all messages.
Press 2 to play new messages.
Press 3 to delete the current message.
Press 4 to stop playing the current message and then play next message.(4=F.Skip)
Press 5 to stop playing the current message and then play the previous message. (5=B.Skip)
Press 0 to stop playing message. (0 = Stop)
Press C key to go back to "STBY".
Note: When the handset has no messages or messages have been reviewed, the beep alarm will be on. Under such circumstances, please press C key to go back to "STBY".

**To listen to incoming messages from CO. line.**
The user can dial a call from outside to listen to ICM message. After the call is communicated, the user can press "#" on telephone and then input the password(1234 or your changing numbers). If the password is correct, you will hear all the incoming messages. If the password is incorrect, the call will be cut.

# Memo Message Option
A message can be recorded by the user for another associate(family members).
Press "MENU"   "5" key to record the Memo message.

Press "INT'   "5" key to review the Message.
Press "C" key to end the family message recording process and back to "STBY".

To listen to the Memo Press "DAM" key once to enter "DAM view" function, LCD display will show "DAM view". Press "INT'   "5" key to listen family message.
Press "C" key to end the Memo listening process and back to "STBY".

**Remarks:**
The following situations will terminate DAM operation:
1. Recording time is over 3 minutes.
2. Full memory.
3. Continuous low volume, silence or the same noise is monitored for more than 8 seconds.

**IMPORTANT:**
This cordless telephone system has many complex features and the operation key has different functions under different working conditions.
If an "Error" appears on the LCD display this means the cordless software system has stopped working.
This may be caused by incorrect operation, interference or power fluctuations.
To reset the Base, take off the base unit power adapter and plug-in again. To reset the handset, remove the battery pack and plug in again.

# Tips for operational problem

**The power light is off on the base unit.**
Has the AC power cord been installed as outlined in the INSTALLATION section?
Is the power outlet working?
Does the power outlet control by a wall switch that is turned ON?

**The handset LCD display "STBY" does not show when the battery is plugged in.**
Is the battery pack securely inserted into the handset?
Is the battery pack charged?
If the battery is secure and charged, check for a defective battery by interchanging batteries with one in a working handset and see if the problem follows the battery.

**Can't get dial tone to dial a call or answer incoming call.**
Is the handset channel group & security code number set same as base unit?
Are you waiting for the handset to ring before you answer a call?

**Communication range is poor – Experiencing unusual static or interference.**
Is there a metal object between the handset and base antenna?

**Can not use the dial tone to call out.**
Do you have DTMF service? If not, please refer to Programming to set to PULSE dialing.

**Sometimes get a "fast" busy signal from the central office**.
Wait for dial tone before dialing.

**Having trouble in answering calls by pushing any keys.**
Wait for the ring coming out from the handset before answering.
Did you program other handset as the Preferred Ringing Handset?
Is the handset out of range?

**IMPORTANT**
Your cordless telephone is like a sensitive radio or TV appliance - it needs a friendly environment for best performance. Avoid installing the base near metal surfaces or objects that could "block" the antenna from handset signals. Avoid placing the base near electronic appliances that might be sources of radio frequency interference such as microwave ovens, refrigerators, TV sets, light dimmer switches.

**Still have a problem after you have tried everything.**
In case that any fault or trouble still persists after you have precisely checked and corrected, contact your distributor or qualified serviceman. It is not recommended that the user should do more than tips as mentioned above.
Do not try to dismantle the unit to avoid electric shocks.