

**15. Page / Handset Locator**

page	<p>Send a signal from the base to handset. Press <b>PAGE</b> button on base and a series of rings will sound from handset. The sound will be stopped automatically after about 30 seconds or the <b>PAGE</b> button on base is pressed again.</p> <p>The display will show 'PAGING'.</p> <div data-bbox="498 487 862 628"><p>PAGING</p></div>
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**16. Out of range**

Out of range	<p>-When the TALK button is pressed while the handset is at the out of range, an error tone will sound.</p> <p>-If you are talking in out-of-range, you will hear 2-Beep tone from the ear-piece and the Low-Bat LED will flash. It will go to idle automatically if out of range condition lasts for 30 seconds. Please move closer to the base.</p>
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**17. Battery**

Low battery alarm	<p>-The BATTERY-LOW icon will be shown during battery low.</p> <p>-If you are talking in battery low, you will also hear a Beep tone from the ear-piece.</p> <div data-bbox="537 1130 900 1266"><p>12:00AM 12/25 NEW 2</p><p>---</p><p>⊙</p></div>
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**18. TAD Feature**

1	Answer mode	Answer On mode, Announce Only mode & Answer Off mode can be selected by the ANS ON/OFF button on base unit
2	OGM	-2 pre-recorded OGM (Answer On & Announce only mode) -2 user record OGM (Answer On & Announce only mode) Maximum recording time is 60 seconds
3	Recording time	15 min (ICM + MEMO + OGM + Voice Prompt) using 4M flash
4	ICM/Memo recording	-Up to 99 messages (ICM, MEMO and OGM) -Maximum recording time is 60 seconds
5	Auto answer	When the memory is full or it is set to Answer Off mode, the telephone will answer after 10 rings
6	Security code	-3 digit programmable -programming is done from handset
7	Clock	-Day of the week, hour, minutes and AM/PM will be announced by voice synthesizer -programming is done from handset -can be updated from CID information
8	Call screen	-ICM can be monitored by base speaker. -ICM and OGM can be monitored by handset.
9	Time stamp	The day of week and the time will be announced at the beginning of each ICM played back after message number.
10	Erase	Erase function is available for ICM/MEMO and OGM messages
11	ICM playback	PLAY/STOP, REPEAT, SKIP buttons are available
12	Memory protection	ICM/MEMO/OGM are stored in a flash memory.
13	Remote control	Remote control is possible from handset or through the C/O line.
14	Speaker volume	8 level digit volume adjust for DTAD message playback Note: Total silence at level 1 should be avoided.

Note : Help button has been deleted per customer's request.

**19. Answer mode**

Mode select	-Answer On mode, Announce only mode & Answer off mode can be selected by the ANS ON/OFF button on base unit (default: Answer on mode) -Recording of OGM and MEMO, or playback of OGM, ICM, MEMO are possible only during Answer On or Announce Only modes. -All indication is active only during Answer On or Announce Only modes. -OGM selection is done linked to the answer modes(Answer On or Announce only mode) -Pre-recorded OGM will be selected only when user-record OGM is not recorded.
Detail function	-If the number of ICM + MEMO reached to 99, or the memory is full, answer mode will switch from Answer ON mode to Announce Only mode. -Making calls from the handset is possible during Answer On mode. In this case, Answer mode is temporarily interrupted and TAD part will not react to any DTMF signal. (All the display stays ON).
Indication	-7-segment LED will indicate different status as follows: During volume setting : " 1" to " 8" ( for 2 seconds. Default is 5.) Answer ON mode : " 0" to "99" ( flash if new messages) Answer OFF mode : turned off Announce Only mode : " A" When memory is full : " F" ( flash ) During OGM recording : " 0" to "60" (count up) During ICM recording : " - - " During MEMO recording : " 0" to "60" (count up) During ICM or MEMO playback: " 0" to "99" (current message number) -After memo/OGM recording, there is a confirmation tone. Note: Display of no leading zero applies to the above indications.

**20. OGM**

General	<ul style="list-style-type: none"> <li>-There are 2 pre-recorded OGMs (OGM1 &amp; OGM2)</li> <li>OGM1: "Hello! Please leave your name and phone number after the beep."</li> <li>OGM2: "Hello! Our machine cannot accept messages. Please call again."</li> <li>-2 user record OGM stored in the flash RAM .( (OGM3 &amp; OGM4)</li> <li>Maximum recording time is 60 seconds each.</li> <li>-Note: OGM1 &amp; OGM3: for Answer On</li> <li>OGM2 &amp; OGM4: for Announce Only mode</li> </ul>
Recording	<ul style="list-style-type: none"> <li>-Press and hold GREETING button for 2 seconds. Then OGM recording will start after a beep.</li> <li>-Beforehand, <ul style="list-style-type: none"> <li>to record OGM3, select Answer On mode by ANS ON/OFF button. or</li> <li>to record OGM4, select Announce Only mode by ANS ON/OFF button</li> </ul> </li> <li>-Release GREETING button to end the recording.</li> <li>-During OGM recording, 2 digit 7-segment LED will indicate the elapsed recording time in seconds, by counting up from " 0 " to " 60 ".</li> </ul>
Detail function	<ul style="list-style-type: none"> <li>-OGM3 &amp; OGM4 can be recorded through the base microphone, handset microphone and through the C/O line.</li> <li>-If 60 second of the recording time elapsed, the OGM recording mode will be terminated with a confirmation beep tone and the recorded OGM will be played.</li> <li>-Recording or re-recording of OGMs will not have any influence to recorded ICMs or MEMOs.</li> </ul>
Erase	<ul style="list-style-type: none"> <li>-OGM3 &amp; OGM4 can be erased.</li> <li>-Press GREETING to play OGM.</li> <li>-Pressing ERASE button during OGM playback, will pause the message being played</li> <li>-Pressing ERASE button again within 7 seconds, the OGM will be erased with a confirmation beep tone.</li> <li>-If no key is pressed within 7 seconds or is not ERASE button then the OGM will continue to play.</li> </ul>

**21. ICM recording**

General	<ul style="list-style-type: none"> <li>-ICM recording is possible up to 99 messages together with MEMO, with max. 60 second recording time for the each message.</li> <li>-The total recording time of 15 minutes is shared between OGMs , ICMs and MEMOs .</li> </ul>
Detail function	<ul style="list-style-type: none"> <li>-ICM recording is terminated with a long tone to the caller when: <ul style="list-style-type: none"> <li>a) 8 seconds of silence, continuous tone or periodical tone is detected by VOX (The message count should not be affected.)</li> <li>b)60 seconds of recording time is elapsed.</li> <li>c)Line reversal signal is detected.</li> </ul> </li> <li>-ICM recording is terminated without beep tone when: <ul style="list-style-type: none"> <li>a)Off-hook of the branch telephone is detected.</li> <li>b)Handset is set to talk mode.</li> <li>c)STOP button is pressed. (Already recorded ICM part will remain in the memory as on ICM.)</li> </ul> </li> <li>-C/O line connection will be terminated at the end of recording.</li> <li>-The unit should accept input of the remote control security code even during OGM playback and ICM recording.</li> </ul>

**22. ICM playback**

Detail function	<ul style="list-style-type: none"> <li>-PLAY, SKIP, REPEAT, PAUSE and STOP functions are available for playback.</li> <li>-Message number and time stamp is announced before each message.</li> <li>-Message playback starts from the message recorded first and continues.</li> <li>-When there are New and Old message, only New messages will be played.</li> <li>-Displayed number of the message will count up and indicate the message number being played.</li> <li>-If the PLAY/STOP button is pressed during the playback, the unit will go into PAUSE mode for 1 minute and current message number will flash.</li> <li>-If the PLAY/STOP button is pressed during PAUSE mode, the playback will continue.</li> <li>Otherwise, the unit will stop and display either total number of messages for the case of no unread new messages or number of unread new messages (blinking).</li> <li>-In case of an incoming call during the playback, playback will stop automatically and ringer starts to ring.</li> </ul>
Repeat	<ul style="list-style-type: none"> <li>-The function is effective only during ICM playback until "No more messages" announcement starts.</li> <li>-If "&lt;&lt;" button is pressed more than once at short interval, the message selected to be played will be skipped backwards every time the button is pressed.</li> <li>-Keeping the "&lt;&lt;" button pressed is same as pressing the button once.</li> </ul>
Skip	<ul style="list-style-type: none"> <li>-The function is effective only during ICM playback until "No more messages" announcement starts.</li> <li>-If "&gt;&gt;" button is pressed more than once at short interval, the message selected to be played will be skipped every time the button is pressed.</li> <li>-Keeping the "&gt;&gt;" button pressed is same as pressing the button once.</li> <li>-Skip function is disabled during message number and time stamp announcement of new messages.</li> </ul>

**23. ICM Erase**

All message Erase	<ul style="list-style-type: none"> <li>-During stand-by mode, press the ERASE button, the unit will announce "Press ERASE button again to erase all messages."</li> <li>-By pressing ERASE button again within 7 seconds, all played messages will be erased.</li> <li>-Unplayed messages will not be erased.</li> </ul>
Selective Erase	<ul style="list-style-type: none"> <li>-Pressing ERASE button during message playback (message file only) will pause the message being played.</li> <li>-Pressing ERASE button again within 7 seconds, the current message will be erased with the announcement "Message erased" and the next message will play.</li> <li>-If no key pressed within 7 seconds or is not ERASE button then the message will continue to play.</li> </ul>

**24. MEMO**

General	<ul style="list-style-type: none"> <li>-MEMO recording is possible up to 99 messages together with ICM, with max. 60 second recording time for the each message.</li> <li>-The total recording time of 15 minutes is shared between OGMs, ICMs and MEMOs.</li> </ul>
Recording	<ul style="list-style-type: none"> <li>-Press and hold MEMO button for 2 seconds. Then MEMO recording will start with a beep tone.</li> <li>-Release MEMO button to end the recording.</li> <li>-During MEMO recording, 2 digit 7-segment LED will indicate the elapsed recording time in seconds, by counting up from "0" to "60".</li> <li>-If 60 second of the recording time elapsed, the MEMO recording mode will be terminated with a confirmation beep tone.</li> <li>-When an incoming call is received during MEMO recording, the recording will be cancelled automatically. (if the already recorded message is longer than 2 seconds, it will remain.)</li> </ul>
Playback, Erase	<ul style="list-style-type: none"> <li>-Recorded MEMO messages are considered as ICMs.</li> <li>( See ICM playback, erase )</li> </ul>
Indication	<ul style="list-style-type: none"> <li>-MEMO messages will be indicated as ICM messages.</li> </ul>

**25. PROGRAM Mode**

Setting security code	<p>-At idle, press and hold FLASH/PRGM button for 2 seconds. Press ▼ three times to set security code. LCD will display 'PASSWORD?' and current security code. The first digit '0' is flashing. (default Password is 000)</p> <div data-bbox="468 473 831 612" data-label="Text"> <p>PASSWORD? 0 0 0</p> </div> <p>-Enter 3-digit for Password</p> <div data-bbox="468 665 831 804" data-label="Text"> <p>PASSWORD? 1 2 3</p> </div> <p>Ex.) Password is set to 123</p> <p>- To correct wrong entry, press /* or /# to move the flashing digit left or right for the desired digit. Then the user can type in a new digit in its place. - If finish, press FLASH/PRGM button again. LCD display 'SAVE' for about 3 seconds with a confirmation tone.</p> <div data-bbox="468 1010 831 1149" data-label="Text"> <p>SAVE 1 2 3</p> </div> <p>Ex.) Password is set</p>
Setting day/time	<p>-At idle, press and hold FLASH/PRGM button for 2 seconds. Press ▼ four times to set day of week/time. LCD will display current day/time. The day of week is flashing.</p> <div data-bbox="468 1316 831 1455" data-label="Text"> <p>Mon 12:00 AM</p> </div> <p>- Press /* or /# button to scroll through the days of week (i.e. from Monday to Sunday) until the desired day is reached.</p> <p>-Press " FLASH /PRGM " key to set real time clock. The Hour and Minute is flashing. -Enter valid numbers for time. Ex.) When setting the time to 10:35 Press dial buttons: "1", "0", "3", "5"</p> <p>-Press " FLASH / PRGM " to set AM/PM. The AM/PM is flashing. -Enter " /* " for AM or " /# " for PM. -If finish, press " FLASH / PRGM " button. The LCD should display 'SAVE' for about 3 seconds with a confirmation tone and the unit should announce the set day and time.</p>
Cancellation	<p>- By the following operation, the programming mode will be cancelled and current memory data will remain unchanged.</p> <ol style="list-style-type: none"> <li>1) Pressing the TALK button</li> <li>2) Replacing the handset onto the cradle</li> <li>3) There is no operation for more than 30 seconds.</li> </ol>

**26. Call Screen**

Call Screen	-By pressing "CS/REMOTE", OGM and ICM can be monitored by the handset -The microphone is muted during this mode
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**27. REMOTE CONTROL by Handset**

General	-Following functions are available. Dial buttons 1: play new 2: play all 3: erase one/all 4: repeat previous message 5: stop 6: skip message 7: Answer On 8: Announce Only 9: Answer Off 0: OGM playback #: Intercom
Detail function	-Press "REMOTE" button on handset will establish the link to the base unit for remote control functions. The unit will announce "You have x messages." and help menu will be heard. -Base unit will become Answer On mode (if it was Answer Off) -LCD will display "REMOTE" during Remote control mode. <div data-bbox="564 1008 925 1149" style="border: 1px solid black; padding: 10px; text-align: center; margin: 10px 0;">           HS REMOTE         </div> -The IN_USE LED on Base unit will light during Remote control mode -In case an incoming call during remote control mode, the remote control mode will be terminated automatically and ringers will ring. -1 second delay is inserted to playback functions in order not to miss the beginning part of the message. -If no command is sent for 30 seconds, the Remote control mode will be terminated automatically with a beep tone. -OGM, ICMs playback or OGM recording is terminated by: <ol style="list-style-type: none"> <li>1) Pressing dial "5"(stop)</li> <li>2) Pressing REMOTE button (Remote function off)</li> <li>3) Pressing TALK button (Talk mode will be set)</li> <li>4) Replace the handset to the charge cradle</li> </ol> In case of above 2),3),4) the set will return to standby mode
All message Erase	-During Remote Control stand-by mode, press ERASE button, the unit will announce "Press ERASE button again to erase all messages." -By pressing ERASE button again within 7 seconds, all played messages will be erased. -Unplayed messages will not be erased.
Selective Erase	-Pressing ERASE button during message playback (message file only) will pause the message being played -Pressing ERASE button again within 7 seconds, the current message will be erased. -If no key pressed within 7 seconds or is not ERASE button then the message will continue to play.

Note : The function of other buttons can be referred to the respective local operation of the TAD.

**28. REMOTE CONTROL through C/O line**

General	<p>-Following functions are available.</p> <p>Dial buttons 1: play new 2: play all 3: erase one/all 4: repeat previous message 5: stop 6: skip message 7: Answer On 8: Announce Only 9: Answer Off 0: OGM recording</p>
Detail function	<p>-Enter correct Remote Security code during OGM playback or ICM recording will set the base unit to remote control stand-by mode. A confirmation tone is sent and then Help Menu will be heard.</p> <p>-Any recording made before Remote Security code will be cancelled.</p> <p>-Base unit will become Answer On mode (if it was Answer Off)</p> <p>-LCD will display "LINE REMOTE" during Remote control mode.</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin: 10px 0;"> <p>LINE REMOTE</p> </div> <p>-The IN_USE LED on Base unit will light during Remote control mode</p> <p>-If no command is sent for 30 seconds, the Remote control mode will be terminated automatically with a beep tone.</p> <p>-OGM, ICM playback or OGM recording is terminated by:</p> <p>a) Pressing dial "5" (stop)</p> <p>b) Hang up the receiver.</p> <p>The unit will stop any playback and release the line when the calling party is on-hook.</p> <p>-When OGM recording is terminated by "5" (STOP) button or time limit of 60 seconds, the recorded OGM will be playback automatically.</p>
All message Erase	<p>-During Remote Control stand-by mode, press ERASE button, the unit will announce "Press ERASE button again to erase all messages."</p> <p>-By pressing ERASE button again within 7 seconds, all played messages will be erased.</p> <p>-Unplayed messages will not be erased.</p>
Selective Erase	<p>-Pressing ERASE button during message playback (message file only) will pause the message being played</p> <p>-Pressing ERASE button again within 7 seconds, the current message will be erased.</p> <p>-If no key pressed within 7 seconds or is not ERASE button then the message will continuous played.</p>
Toil saver	<p>-TAD will answer after 2 rings when new ICM/MEMO recording is in the memory.</p> <p>-TAD will answer after 4 rings when no new messages are in the memory.</p>
Memory Full	<p>-TAD will answer after 10 rings and playback Announce-Only OGM (OGM 2 or 4)</p> <p>-TAD will wait for 30 seconds after the OGM for possible Remote Security for input.</p> <p>-When Remote security code is received, "Memory is full" will be announced.</p>
Answer OFF mode	<p>-TAD will answer after 10 rings and playback Announce Only OGM (OGM2 or 4)</p> <p>-TAD will wait for 30 seconds after the OGM for possible Remote Security for input.</p>

Note : The function of other buttons can be referred to the respective local operation of the TAD.

## VOICE MENU

*Note: The following comprehensive list of voice prompt is for better illustration of the aforesaid operation and should be treated as an indispensable part of the functional specification.*

Event		Announcement
<b>1. GREETING button</b>		
Press and release	Answer On	(OGM-3) or Hello, Please leave your name and phone number after the beep. (Default OGM)
	Announce Only	(OGM-4) or Hello, our machine cannot accept messages. Please call again. (Default OGM)
Press and hold	Answer On	(Beep after 2 seconds)
	Announce Only	(Beep after 2 seconds)
Recorded less than 2 seconds		Greeting was not recorded. Please record longer message again.
<b>2. PLAY button</b>		
Press and release	No message	You have no messages.
	Only old message	You have 1 / message. / Message / 1. / Sunday / 10:30 / AM. / - - - You have 3 / messages. / Message / 1 / Monday / 3:00 / PM / - - -
	Have new message	You have 4 / messages/including/ 1 / new message. / Message / 4 / Monday / 12:00 / AM / - - -
Before each message.		Message / 8 / Sunday / 11:00 / PM / - - -
At the end of last message.		You have no more messages.
<b>3. MEMO button</b>		
Press and release.		-
Press and hold.		(Beep after 2 seconds )
Memory full while recording.		Memory is full.
Recorded less than 2 seconds.		Message / was not recorded. / Please record longer message again.
<b>4. ERASE button</b>		
First press in Stand-by.		Press / ERASE button / again / to erase / all messages.
Second press in Stand-by.		All messages / erased.
First press after playback	OGM playback	-
	ICM playback	-
Second press after playback	OGM playback	Greeting / erased.
	ICM playback	Message / erased.
<b>5. ANS ON/OFF button</b>		
Press to turn on.	Answer on. / Monday. / 4:20 / PM.	
	Announce only.	
	Answer on. / Memory is full.	
Press to turn off.		Answer off.
<b>6. TAD answering a call</b>		
Answer on		(OGM-3) or Hello. / Please leave your name and phone number / after the beep.



<b>7. Remote control mode by Handset</b>		
Remote control sequence start (new and old messages )		<p>You have / 6 / messages / including / 2/ new messages.</p> <p>Press 1 / to playback new messages.</p> <p>Press 2 / to playback all messages.</p> <p>Press 3 / to erase / messages.</p> <p>Press 7 / to turn on / answer mode.</p> <p>Press 8 / to set to / announce only.</p> <p>Press 9 / to turn off / answer mode.</p> <p>Press 0 / to listen to greeting.</p>
Remote control sequence start (only old messages )		<p>You have / 6 / messages.</p> <p>Press 1 / to playback new messages.</p> <p>Press 2 / to playback all messages.</p> <p>Press 3 / to erase / messages.</p> <p>Press 7 / to turn on / answer mode.</p> <p>Press 8 / to set to / announce only.</p> <p>Press 9 / to turn off / answer mode.</p> <p>Press 0 / to listen to greeting.</p>
Remote control sequence start (only new messages )		<p>You have / 2/ new messages.</p> <p>Press 1 / to playback new messages.</p> <p>Press 2 / to playback all messages.</p> <p>Press 3 / to erase / messages.</p> <p>Press 7 / to turn on / answer mode.</p> <p>Press 8 / to set to / announce only.</p> <p>Press 9 / to turn off / answer mode.</p> <p>Press 0 / to listen to greeting.</p>
Remote control sequence start when no message .		<p>You have / no messages.</p> <p>Press 1 / to playback new messages.</p> <p>Press 2 / to playback all messages.</p> <p>Press 3 / to erase / messages.</p> <p>Press 7 / to turn on / answer mode.</p> <p>Press 8 / to set to / announce only.</p> <p>Press 9 / to turn off / answer mode.</p> <p>Press 0 / to listen to greeting.</p>
Start playing messages.		<p>To skip / press 6. / to repeat / press 4. / to stop press 5/ Message / 1 / Tuesday /9:45/ AM/ ----</p>
At the end of message playback	Have free spaces	No more / messages. / Press 3 / to erase / all messages.
	Memory is full	No more / messages. / Memory is full. / Press 3 / to erase / all messages.
Greeting playback started by pressing 0		Press 5 to end playback.
Press 5 to end the recording.		(OGM playback )
Turn on the machine.		Answer on. /Monday, / 12:00/ AM.
Turn off the machine.		Answer off.
To set announcement mode		Announce only
Erase a message.	Message / erased.	
	All messages / erased.	

8. Remote control mode through C/O line		
Remote control sequence start (new and old messages )		You have / 6 / messages / including / 2/ new messages. Press 1 / to playback new messages. Press 2 / to playback all messages. Press 3 / to erase/ messages. Press 4 for other functions.
Remote control sequence start (only old messages )		You have / 6 / messages. Press 1 / to playback new messages. Press 2 / to playback all messages. Press 3 / to erase / messages. Press 4 for other functions.
Remote control sequence start (only new messages )		You have / 2/ new messages. Press 1 / to playback new messages. Press 2 / to playback all messages. Press 3 / to erase / messages. Press 4 for other functions.
Remote control sequence start when no message.		You have / no messages. Press 1 / to playback new messages. Press 2 / to playback all messages. Press 3 / to erase / messages. Press 4 for other functions.
Sub-menu heard after pressing 4 to select other functions.		Press 7 / to turn on / answer mode. Press 8 / to set to / announce only. Press 9 / to turn off / answer mode. Press 0 / to record/ new greeting. Press 4 / to return to/ main menu.
Start playing messages.		To skip / press 6. / to repeat / press 4. / to stop press 5/ Message / 1 / Tuesday /9:45/ AM/ ----
At the end of message playback	Have free spaces	No more / messages. / Press 3 / to erase / all messages.
	Memory is full	No more / messages. / Memory is full . / Press 3 / to erase / all messages.
Greeting recording started by pressing 0.		Record/ greeting/ after the beep./ Press 5 to end/ recording
Press 5 to end the recording.		(OGM playback )
Turn on the machine.		Answer on. /Monday, / 12:00/ AM.
Turn off the machine.		Answer off.
To set announcement mode.		Announce only
Erase a message.		Message / erased.
		All messages / erased.
After execution of any remote commands		Press 4 / to return to / main menu.
Key '4' not pressed within 10 seconds.		Good Bye.

Note : Help button has been deleted per customer's request.

## 15. Page / Handset Locator

page	<p>Send a signal from the base to handset. Press <b>PAGE</b> button on base and a series of rings will sound from handset. The sound will be stopped automatically after about 30 seconds or the <b>PAGE</b> button on base is pressed again.</p> <p>The display will show 'PAGING'.</p> <div data-bbox="500 477 862 614"><p>PAGING</p></div>
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## 16. Out of range

Out of range	<ul style="list-style-type: none"><li>-When the TALK button is pressed while the handset is at the out of range, an error tone will sound.</li><li>-If you are talking in out-of-range, you will hear 2-Beep tone from the ear-piece and the Low-Bat LED will flash. It will go to idle automatically if out of range condition lasts for 30 seconds. Please move closer to the base.</li></ul>
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## 17. Battery

Low battery alarm	<p>-The BATTERY-LOW icon will be shown during battery low.</p> <p>-If you are talking in battery low, you will also hear a Beep tone from the ear-piece.</p> <div data-bbox="540 1118 901 1255"><p>12:00<sup>AM</sup> 12/25 NEW 2</p><p>---</p><p>⊙</p></div>
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**18. TAD Feature**

1	Answer mode	Answer On mode, Announce Only mode & Answer Off mode can be selected by the ANS ON/OFF button on base unit
2	OGM	-2 pre-recorded OGM (Answer On & Announce only mode) -2 user record OGM (Answer On & Announce only mode) Maximum recording time is 60 seconds
3	Recording time	15 min (ICM + MEMO + OGM + Voice Prompt) using 4M flash
4	ICM/Memo recording	-Up to 99 messages (ICM, MEMO and OGM) -Maximum recording time is 60 seconds
5	Auto answer	When the memory is full or it is set to Answer Off mode, the telephone will answer after 10 rings
6	Security code	-3 digit programmable -programming is done from handset
7	Clock	-Day of the week, hour, minutes and AM/PM will be announced by voice synthesizer -programming is done from handset -can be updated from CID information
8	Call screen	-ICM can be monitored by base speaker. -ICM and OGM can be monitored by handset.
9	Time stamp	The day of week and the time will be announced at the beginning of each ICM played back after message number.
10	Erase	Erase function is available for ICM/MEMO and OGM messages
11	ICM playback	PLAY/STOP, REPEAT, SKIP buttons are available
12	Memory protection	ICM/MEMO/OGM are stored in a flash memory.
13	Remote control	Remote control is possible from handset or through the C/O line.
14	Speaker volume	8 level digit volume adjust for DTAD message playback Note: Total silence at level 1 should be avoided.

Note : Help button has been deleted per customer's request.

**19. Answer mode**

Mode select	-Answer On mode, Announce only mode & Answer off mode can be selected by the ANS ON/OFF button on base unit (default: Answer on mode) -Recording of OGM and MEMO, or playback of OGM, ICM, MEMO are possible only during Answer On or Announce Only modes. -All indication is active only during Answer On or Announce Only modes. -OGM selection is done linked to the answer modes(Answer On or Announce only mode) -Pre-recorded OGM will be selected only when user-record OGM is not recorded.
Detail function	-If the number of ICM + MEMO reached to 99, or the memory is full, answer mode will switch from Answer ON mode to Announce Only mode. -Making calls from the handset is possible during Answer On mode. In this case, Answer mode is temporarily interrupted and TAD part will not react to any DTMF signal. (All the display stays ON).
Indication	-7-segment LED will indicate different status as follows: During volume setting : " 1" to " 8" ( for 2 seconds. Default is 5.) Answer ON mode : " 0" to "99" ( flash if new messages) Answer OFF mode : turned off Announce Only mode : " A" When memory is full : " F" ( flash ) During OGM recording : " 0" to "60" (count up) During ICM recording : " - - " During MEMO recording : " 0" to "60" (count up) During ICM or MEMO playback: " 0" to "99" (current message number) -After memo/OGM recording, there is a confirmation tone. Note: Display of no leading zero applies to the above indications.

**20. OGM**

General	<ul style="list-style-type: none"> <li>-There are 2 pre-recorded OGMs (OGM1 &amp; OGM2)</li> <li>OGM1: "Hello! Please leave your name and phone number after the beep."</li> <li>OGM2: "Hello! Our machine cannot accept messages. Please call again."</li> <li>-2 user record OGM stored in the flash RAM .( OGM3 &amp; OGM4)</li> <li>Maximum recording time is 60 seconds each.</li> <li>-Note: OGM1 &amp; OGM3: for Answer On</li> <li>OGM2 &amp; OGM4: for Announce Only mode</li> </ul>
Recording	<ul style="list-style-type: none"> <li>-Press and hold GREETING button for 2 seconds. Then OGM recording will start after a beep.</li> <li>-Beforehand, <ul style="list-style-type: none"> <li>to record OGM3, select Answer On mode by ANS ON/OFF button. or</li> <li>to record OGM4, select Announce Only mode by ANS ON/OFF button</li> </ul> </li> <li>-Release GREETING button to end the recording.</li> <li>-During OGM recording, 2 digit 7-segment LED will indicate the elapsed recording time in seconds, by counting up from " 0 " to " 60 ".</li> </ul>
Detail function	<ul style="list-style-type: none"> <li>-OGM3 &amp; OGM4 can be recorded through the base microphone, handset microphone and through the C/O line.</li> <li>-If 60 second of the recording time elapsed, the OGM recording mode will be terminated with a confirmation beep tone and the recorded OGM will be played.</li> <li>-Recording or re-recording of OGMs will not have any influence to recorded ICMs or MEMOs.</li> </ul>
Erase	<ul style="list-style-type: none"> <li>-OGM3 &amp; OGM4 can be erased.</li> <li>-Press GREETING to play OGM.</li> <li>-Pressing ERASE button during OGM playback, will pause the message being played</li> <li>-Pressing ERASE button again within 7 seconds, the OGM will be erased with a confirmation beep tone.</li> <li>-If no key is pressed within 7 seconds or is not ERASE button then the OGM will continue to play.</li> </ul>

**21. ICM recording**

General	<ul style="list-style-type: none"> <li>-ICM recording is possible up to 99 messages together with MEMO. with max. 60 second recording time for the each message.</li> <li>-The total recording time of 15 minutes is shared between OGMs , ICMs and MEMOs .</li> </ul>
Detail function	<ul style="list-style-type: none"> <li>-ICM recording is terminated with a long tone to the caller when: <ul style="list-style-type: none"> <li>a) 8 seconds of silence, continuous tone or periodical tone is detected by VOX (The message count should not be affected.)</li> <li>b)60 seconds of recording time is elapsed.</li> <li>c)Line reversal signal is detected.</li> </ul> </li> <li>-ICM recording is terminated without beep tone when: <ul style="list-style-type: none"> <li>a)Off-hook of the branch telephone is detected.</li> <li>b)Handset is set to talk mode.</li> <li>c)STOP button is pressed. (Already recorded ICM part will remain in the memory as on ICM.)</li> </ul> </li> <li>-C/O line connection will be terminated at the end of recording.</li> <li>-The unit should accept input of the remote control security code even during OGM playback and ICM recording.</li> </ul>

**22. ICM playback**

Detail function	<ul style="list-style-type: none"> <li>-PLAY, SKIP, REPEAT, PAUSE and STOP functions are available for playback.</li> <li>-Message number and time stamp is announced before each message.</li> <li>-Message playback starts from the message recorded first and continues.</li> <li>-When there are New and Old message, only New messages will be played.</li> <li>-Displayed number of the message will count up and indicate the message number being played.</li> <li>-If the PLAY/STOP button is pressed during the playback, the unit will go into PAUSE mode for 1 minute and current message number will flash.</li> <li>-If the PLAY/STOP button is pressed during PAUSE mode, the playback will continue.</li> <li>Otherwise, the unit will stop and display either total number of messages for the case of no unread new messages or number of unread new messages (blinking).</li> <li>-In case of an incoming call during the playback, playback will stop automatically and ringer starts to ring.</li> </ul>
Repeat	<ul style="list-style-type: none"> <li>-The function is effective only during ICM playback until "No more messages" announcement starts.</li> <li>-If "&lt;&lt;" button is pressed more than once at short interval, the message selected to be played will be skipped backwards every time the button is pressed.</li> <li>-Keeping the "&lt;&lt;" button pressed is same as pressing the button once.</li> </ul>
Skip	<ul style="list-style-type: none"> <li>-The function is effective only during ICM playback until "No more messages" announcement starts.</li> <li>-If "&gt;&gt;" button is pressed more than once at short interval, the message selected to be played will be skipped every time the button is pressed.</li> <li>-Keeping the "&gt;&gt;" button pressed is same as pressing the button once.</li> <li>-Skip function is disabled during message number and time stamp announcement of new messages.</li> </ul>

**23. ICM Erase**

All message Erase	<ul style="list-style-type: none"> <li>-During stand-by mode, press the ERASE button, the unit will announce "Press ERASE button again to erase all messages."</li> <li>-By pressing ERASE button again within 7 seconds, all played messages will be erased.</li> <li>-Unplayed messages will not be erased.</li> </ul>
Selective Erase	<ul style="list-style-type: none"> <li>-Pressing ERASE button during message playback (message file only) will pause the message being played.</li> <li>-Pressing ERASE button again within 7 seconds, the current message will be erased with the announcement "Message erased" and the next message will play.</li> <li>-If no key pressed within 7 seconds or is not ERASE button then the message will continue to play.</li> </ul>

**24. MEMO**

General	<ul style="list-style-type: none"> <li>-MEMO recording is possible up to 99 messages together with ICM, with max. 60 second recording time for the each message.</li> <li>-The total recording time of 15 minutes is shared between OGMs, ICMs and MEMOs.</li> </ul>
Recording	<ul style="list-style-type: none"> <li>-Press and hold MEMO button for 2 seconds. Then MEMO recording will start with a beep tone.</li> <li>-Release MEMO button to end the recording.</li> <li>-During MEMO recording, 2 digit 7-segment LED will indicate the elapsed recording time in seconds, by counting up from "0" to "60".</li> <li>-If 60 second of the recording time elapsed, the MEMO recording mode will be terminated with a confirmation beep tone.</li> <li>-When an incoming call is received during MEMO recording, the recording will be cancelled automatically. (if the already recorded message is longer than 2 seconds, it will remain.)</li> </ul>
Playback, Erase	<ul style="list-style-type: none"> <li>-Recorded MEMO messages are considered as ICMs.</li> <li>( See ICM playback, erase )</li> </ul>
Indication	<ul style="list-style-type: none"> <li>-MEMO messages will be indicated as ICM messages.</li> </ul>

**25. PROGRAM Mode**

Setting security code	<p>-At idle, press and hold FLASH/PRGM button for 2 seconds. Press ▼ three times to set security code. LCD will display 'PASSWORD?' and current security code. The first digit '0' is flashing. (default Password is 000)</p> <div data-bbox="470 469 832 606"> <p>PASSWORD? 0 0 0</p> </div> <p>-Enter 3-digit for Password</p> <div data-bbox="470 663 832 800"> <p>PASSWORD? 1 2 3</p> </div> <p>Ex.) Password is set to 123</p> <p>- To correct wrong entry, press /* or /# to move the flashing digit left or right for the desired digit. Then the user can type in a new digit in its place. - If finish, press FLASH/PRGM button again. LCD display 'SAVE' for about 3 seconds with a confirmation tone.</p> <div data-bbox="470 1008 832 1145"> <p>SAVE 1 2 3</p> </div> <p>Ex.) Password is set</p>
Setting day/time	<p>-At idle, press and hold FLASH/PRGM button for 2 seconds. Press ▼ four times to set day of week/time. LCD will display current day/time. The day of week is flashing.</p> <div data-bbox="470 1312 832 1449"> <p>Mon 12:00 AM</p> </div> <p>- Press /* or /# button to scroll through the days of week (i.e. from Monday to Sunday) until the desired day is reached.</p> <p>-Press " FLASH /PRGM " key to set real time clock. The Hour and Minute is flashing. -Enter valid numbers for time. Ex.) When setting the time to 10:35 Press dial buttons: "1", "0", "3", "5"</p> <p>-Press " FLASH / PRGM " to set AM/PM. The AM/PM is flashing. -Enter " / * " for AM or " / # " for PM. -If finish, press " FLASH / PRGM " button. The LCD should display 'SAVE' for about 3 seconds with a confirmation tone and the unit should announce the set day and time.</p>
Cancellation	<p>- By the following operation, the programming mode will be cancelled and current memory data will remain unchanged.</p> <ol style="list-style-type: none"> <li>1) Pressing the TALK button</li> <li>2) Replacing the handset onto the cradle</li> <li>3) There is no operation for more than 30 seconds.</li> </ol>

**26. Call Screen**

Call Screen	-By pressing "CS/REMOTE", OGM and ICM can be monitored by the handset -The microphone is muted during this mode
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**27. REMOTE CONTROL by Handset**

General	-Following functions are available. Dial buttons 1: play new 2: play all 3: erase one/all 4: repeat previous message 5: stop 6: skip message 7: Answer On 8: Announce Only 9: Answer Off 0: OGM playback #: Intercom
Detail function	-Press "REMOTE" button on handset will establish the link to the base unit for remote control functions. The unit will announce " You have x messages." and help menu will be heard. -Base unit will become Answer On mode (if it was Answer Off) -LCD will display "REMOTE" during Remote control mode. <div style="border: 1px solid black; padding: 10px; text-align: center; margin: 10px 0;"> <b>HS REMOTE</b> </div> -The IN_USE LED on Base unit will light during Remote control mode -In case an incoming call during remote control mode, the remote control mode will be terminated automatically and ringers will ring. -1 second delay is inserted to playback functions in order not to miss the beginning part of the message. -If no command is sent for 30 seconds, the Remote control mode will be terminated automatically with a beep tone. -OGM, ICMs playback or OGM recording is terminated by: 1) Pressing dial "5"(stop) 2) Pressing REMOTE button (Remote function off) 3) Pressing TALK button (Talk mode will be set) 4) Replace the handset to the charge cradle In case of above 2),3),4) the set will return to standby mode
All message Erase	-During Remote Control stand-by mode, press ERASE button, the unit will announce "Press ERASE button again to erase all messages." -By pressing ERASE button again within 7 seconds, all played messages will be erased. -Unplayed messages will not be erased.
Selective Erase	-Pressing ERASE button during message playback (message file only) will pause the message being played -Pressing ERASE button again within 7 seconds, the current message will be erased. -If no key pressed within 7 seconds or is not ERASE button then the message will continue to play.

Note : The function of other buttons can be referred to the respective local operation of the TAD.



**28. REMOTE CONTROL through C/O line**

General	<p>-Following functions are available.</p> <p>Dial buttons 1: play new 2: play all 3: erase one/all 4: repeat previous message 5: stop 6: skip message 7: Answer On 8: Announce Only 9: Answer Off 0: OGM recording</p>
Detail function	<p>-Enter correct Remote Security code during OGM playback or ICM recording will set the base unit to remote control stand-by mode. A confirmation tone is sent and then Help Menu will be heard.</p> <p>-Any recording made before Remote Security code will be cancelled.</p> <p>-Base unit will become Answer On mode (if it was Answer Off)</p> <p>-LCD will display "LINE REMOTE" during Remote control mode.</p> <div style="border: 1px solid black; padding: 10px; text-align: center; margin: 10px 0;"> <p>LINE REMOTE</p> </div> <p>-The IN_USE LED on Base unit will light during Remote control mode</p> <p>-If no command is sent for 30 seconds, the Remote control mode will be terminated automatically with a beep tone.</p> <p>-OGM, ICM playback or OGM recording is terminated by:</p> <p>a) Pressing dial "5"(stop) b) Hang up the receiver.</p> <p>The unit will stop any playback and release the line when the calling party is on-hook.</p> <p>-When OGM recording is terminated by "5"(STOP) button or time limit of 60 seconds, the recorded OGM will be playback automatically.</p>
All message Erase	<p>-During Remote Control stand-by mode, press ERASE button, the unit will announce "Press ERASE button again to erase all messages."</p> <p>-By pressing ERASE button again within 7 seconds, all played messages will be erased.</p> <p>-Unplayed messages will not be erased.</p>
Selective Erase	<p>-Pressing ERASE button during message playback (message file only), will pause the message being played</p> <p>-Pressing ERASE button again within 7 seconds, the current message will be erased.</p> <p>-If no key pressed within 7 seconds or is not ERASE button then the message will continuous played.</p>
Toll saver	<p>-TAD will answer after 2 rings when new ICM/MEMO recording is in the memory.</p> <p>-TAD will answer after 4 rings when no new messages are in the memory.</p>
Memory Full	<p>-TAD will answer after 10 rings and playback Announce Only OGM (OGM 2 or 4)</p> <p>-TAD will wait for 30 seconds after the OGM for possible Remote Security for input.</p> <p>-When Remote security code is received, "Memory is full" will be announced.</p>
Answer OFF mode	<p>-TAD will answer after 10 rings and playback Announce Only OGM (OGM2 or 4)</p> <p>-TAD will wait for 30 seconds after the OGM for possible Remote Security for input.</p>

Note : The function of other buttons can be referred to the respective local operation of the TAD.

## VOICE MENU

*Note: The following comprehensive list of voice prompt is for better illustration of the aforesaid operation and should be treated as an indispensable part of the functional specification.*

Event		Announcement
<b>1. GREETING button</b>		
Press and release	Answer On	(OGM-3) or Hello, Please leave your name and phone number after the beep. (Default OGM)
	Announce Only	(OGM-4) or Hello, our machine cannot accept messages. Please call again. (Default OGM)
Press and hold	Answer On	(Beep after 2 seconds)
	Announce Only	(Beep after 2 seconds)
Recorded less than 2 seconds		Greeting was not recorded. Please record longer message again.
<b>2. PLAY button</b>		
Press and release	No message	You have no messages.
	Only old message	You have 1 / message. / Message / 1. / Sunday / 10:30 / AM. / - - - You have 3 / messages. / Message / 1 / Monday / 3:00 / PM / - - -
	Have new message	You have 4 / messages/including/ 1 / new message. / Message / 4 / Monday / 12:00 / AM / - - -
Before each message.		Message / 8 / Sunday / 11:00 / PM / - - -
At the end of last message		You have no more messages.
<b>3. MEMO button</b>		
Press and release.		-
Press and hold.		(Beep after 2 seconds )
Memory full while recording.		Memory is full.
Recorded less than 2 seconds.		Message / was not recorded. / Please record longer message again.
<b>4. ERASE button</b>		
First press in Stand-by.		Press / ERASE button / again / to erase / all messages.
Second press in Stand-by.		All messages / erased.
First press after playback	OGM playback	-
	ICM playback	-
Second press after playback	OGM playback	Greeting / erased.
	ICM playback	Message / erased.
<b>5. ANS ON/OFF button</b>		
Press to turn on.	Answer on. / Monday, / 4:20 / PM.	
	Announce only.	
	Answer on. / Memory is full.	
Press to turn off.		Answer off.
<b>6. TAD answering a call</b>		
Answer on		(OGM-3) or Hello, / Please leave your name and phone number / after the beep.
Announce only, or Memory full, or 99 messages recorded.		(OGM-4) or Hello, / our machine cannot accept / messages. / Please call again.

<b>7. Remote control mode by Handset</b>		
Remote control sequence start (new and old messages )		<p>You have / 6 / messages / including / 2/ new messages.</p> <p>Press 1 / to playback new messages.</p> <p>Press 2 / to playback all messages.</p> <p>Press 3 / to erase / messages.</p> <p>Press 7 / to turn on / answer mode.</p> <p>Press 8 / to set to / announce only.</p> <p>Press 9 / to turn off / answer mode.</p> <p>Press 0 / to listen to greeting.</p>
Remote control sequence start (only old messages )		<p>You have / 6 / messages.</p> <p>Press 1 / to playback new messages.</p> <p>Press 2 / to playback all messages.</p> <p>Press 3 / to erase / messages.</p> <p>Press 7 / to turn on / answer mode.</p> <p>Press 8 / to set to / announce only.</p> <p>Press 9 / to turn off / answer mode.</p> <p>Press 0 / to listen to greeting.</p>
Remote control sequence start (only new messages )		<p>You have / 2/ new messages.</p> <p>Press 1 / to playback new messages.</p> <p>Press 2 / to playback all messages.</p> <p>Press 3 / to erase / messages.</p> <p>Press 7 / to turn on / answer mode.</p> <p>Press 8 / to set to / announce only.</p> <p>Press 9 / to turn off / answer mode.</p> <p>Press 0 / to listen to greeting.</p>
Remote control sequence start when no message .		<p>You have / no messages.</p> <p>Press 1 / to playback new messages.</p> <p>Press 2 / to playback all messages.</p> <p>Press 3 / to erase / messages.</p> <p>Press 7 / to turn on / answer mode.</p> <p>Press 8 / to set to / announce only.</p> <p>Press 9 / to turn off / answer mode.</p> <p>Press 0 / to listen to greeting.</p>
Start playing messages.		To skip / press 6. / to repeat / press 4. / to stop press 5/ Message / 1 / Tuesday /9:45/ AM/ ----
At the end of message playback	Have free spaces	No more / messages. / Press 3 / to erase / all messages.
	Memory is full	No more / messages. / Memory is full. / Press 3 / to erase / all messages.
Greeting playback started by pressing 0		Press 5 to end playback.
Press 5 to end the recording.		(OGM playback )
Turn on the machine.		Answer on. /Monday, / 12:00/ AM.
Turn off the machine.		Answer off.
To set announcement mode.		Announce only
Erase a message.	Message / erased.	
	All messages / erased.	

8. Remote control mode through C/O line		
Remote control sequence start (new and old messages )		You have / 6 / messages / including / 2/ new messages. Press 1 / to playback new messages. Press 2 / to playback all messages. Press 3 / to erase/ messages. Press 4 for other functions.
Remote control sequence start (only old messages )		You have / 6 / messages. Press 1 / to playback new messages. Press 2 / to playback all messages. Press 3 / to erase / messages. Press 4 for other functions.
Remote control sequence start (only new messages )		You have / 2/ new messages. Press 1 / to playback new messages. Press 2 / to playback all messages. Press 3 / to erase / messages. Press 4 for other functions.
Remote control sequence start when no message.		You have / no messages. Press 1 / to playback new messages. Press 2 / to playback all messages. Press 3 / to erase / messages. Press 4 for other functions.
Sub-menu heard after pressing 4 to select other functions.		Press 7 / to turn on / answer mode. Press 8 / to set to / announce only. Press 9 / to turn off / answer mode. Press 0 / to record/ new greeting. Press 4 / to return to/ main menu.
Start playing messages.		To skip / press 6. / to repeat / press 4. / to stop press 5./ Message / 1 / Tuesday /9:45/ AM/ ----
At the end of message playback	Have free spaces	No more / messages. / Press 3 / to erase / all messages.
	Memory is full	No more / messages. / Memory is full . / Press 3 / to erase / all messages.
Greeting recording started by pressing 0.		Record/ greeting/ after the beep./ Press 5 to end/ recording.
Press 5 to end the recording.		(OGM playback )
Turn on the machine.		Answer on. /Monday, / 12:00/ AM.
Turn off the machine.		Answer off.
To set announcement mode.		Announce only
Erase a message.		Message / erased.
		All messages / erased.
After execution of any remote commands		Press 4 / to return to / main menu.
Key '4' not pressed within 10 seconds.		Good Bye.

Note : Help button has been deleted per customer's request.