

Chapter 1 Introduction



Congratulations on your purchase of **SD590p**, which contains menus of different icons related to Dictionaries, English Language, Grammar, Quizzes, Encyclopedia, Organizer, Calculations, Games, Miscellaneous and System Setup.

Brief Introduction:

1-1 Power Supply:

The device is powered by two Alkaline AAA batteries. Do not mix new batteries with old ones.

Batteries Replacement:

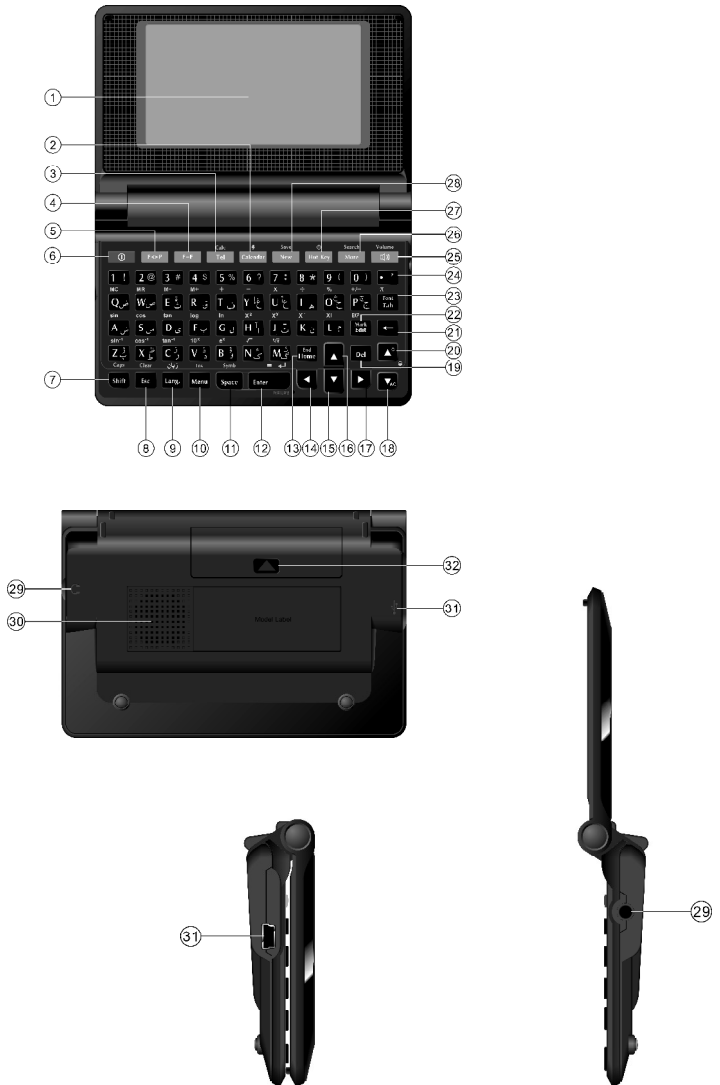
1. Turn off the device.
2. Open the batteries compartment cover.
3. Remove the used batteries and replace them with new ones.
4. Make sure that the batteries are placed correctly according to the polarities marks.
5. Put the batteries compartment cover back.
6. After an opening screen logo has appeared, a reminder message of system initialization will be shown. If you want to keep the stored user data, please press . Otherwise, all stored user data will be cleared once you consecutively pressed  twice.

Note: In case the device would not operate properly, you can RESET the device.

Cautions:

1. Do not touch the screen with sharp-headed objects.
2. Keep the device away from direct sunlight, heat or humidity.
3. Do not repair the device by yourself.
4. Avoid dropping the device, bending or exposing it to strong impact.
5. Do not use detergent, liquid cleansers or solvent (like gasoline) to clean the device.

1-2 Device Layout:



1. LCD
2. Calender Hot Key / Alarm Clock Hot Key
3. Telephone Hot Key / Scientific Calculator Hot Key
4. Oxford Compact E->E Dictionary Hot Key
5. Atlas Dictionary E->P Hot Key
6. Power On / Off
7. Shift / Caps
8. Esc / Clear Entry
9. Switch Language
10. Menu / Insert
11. Space / Symbol
12. Enter / Linefeed Function / =
13. End / Home
14. Left Arrow
15. Down Arrow
16. Up Arrow
17. Right Arrow
18. Page Down / Adjust Contrast / Clear Formula in Calculations
19. Delete
20. Page Up / Adjust Contrast / Clear the Second Part of Formula in Calculations
21. Backspace
22. Edit / Mark
23. Tab / Font
24. -
25. Pronunciation / Volume Control
26. More (View Applications List / Supplementary Information) / Search
27. Hot Key / Time
28. New / Save
29. Earphone Jack
30. Speaker
31. USB Jack
32. Battery Compartment Door

Chapter 2 Dictionaries

This menu contains: Atlas Dictionary E->P, Atlas Dictionary P->E, Oxford Compact E->E Dictionary, English Abbreviations, User's Dictionary, Extended Search.

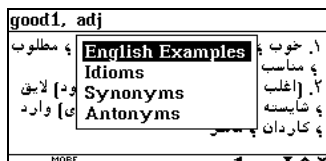
2-1 Atlas Dictionary E->P

General search, smart input method, nearest word search, spelling check, wildcard search and history search can be used to look up the Persian definitions of English words and phrases. In this dictionary you can also cross search to Atlas Dictionary P->E or Oxford Compact E->E Dictionary, the pronunciation of English words is also available in real human voice.

2-1-1 General Search

Input the desired English word or phrase and press **Enter** to enter the content screen. Press **▲** / **▼** to view upper or lower contents and press **⬆** / **⬇** to view other related words. Press **◀** / **▶** to highlight an English word and then press **Volume Up** to listen to the English pronunciation or press **Volume Down** to listen to the English keyword pronunciation.

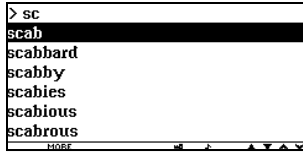
You can press **Search More** to look up supplementary information such as idioms, synonyms, English examples, etc.




Press **Clear Esc** to go back to editor screen, with last inputted keyword or phrase. You can press **←** or **Clear Esc** to clear the word. Press **Clear Esc** again to return to the previous screen.



2-1-2 Smart Input

Input the first letter or the first few letters of an English word, a list of words will be provided for you to select from.





2-1-3 Nearest Word, Spelling Check

If the inputted word is not available in the dictionary, you can select "Nearest Word", then press  to view the next word according to the alphabetical order.



You can select "Spelling Check", press  to view a list of words similar to the one inputted, then highlight the desired word and press .

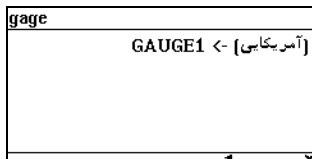
2-1-4 Wildcard Search

If part of a word or phrase is uncertain, input "?" and "*" to perform wildcard search. "?" represents one uncertain letter and "*" represents more uncertain letters, then press  to view the word according to the alphabetic order.


e.g. Input "ga?e" then press .

The meaning of the word that is prior to the alphabetic order for the "?" or "*" represents will be shown.


In the content screen, you can press  /  to view other related words.

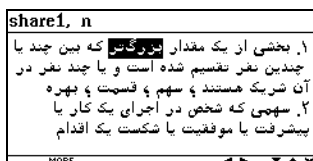


2-1-5 History Search



In the index screen, press  to view a list of the words previously searched for.

2-1-6 Cross Search

In the explanation screen of an English word, you can select any Persian or English word for cross search in Atlas Dictionary P->E or Oxford Compact E->E Dictionary by highlighting it and pressing .



2-1-7 Font Size

Enter the explanations screen of any word. Press  +  to change the font size.

2-2 Atlas Dictionary P->E

This dictionary is a modern dictionary of Persian words and phrases with their English explanations. The pronunciation of Persian keywords is available in real human voice.

Steps for looking up words in this dictionary are the same as those of Atlas Dictionary E->P.

For more details about General Search, Smart Input Method, Nearest Word, Wildcard Search, History Search, Cross Search and Font Size, please refer to (2-1-1, 2-1-2, 2-1-3, 2-1-4, 2-1-5, 2-1-6 and 2-1-7).

2-3 Oxford Compact E->E Dictionary

This dictionary is licensed by Oxford University Press. You can perform general search and sequential search. The dictionary offers English explanations of English words. The pronunciation of words is

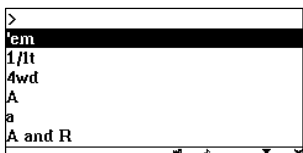
available in real human voice.

Steps for looking up words in this dictionary are the same as those of Atlas Dictionary E->P.

For more details about General Search, Smart Input Method, Nearest Word, Spelling Check, Wildcard Search, History Search, Cross Search and Font Size, please refer to (2-1-1, 2-1-2, 2-1-3, 2-1-4, 2-1-5, 2-1-6 and 2-1-7).

2-4 English Abbreviations

Choose “English Abbreviations” application from “Dictionaries” main menu.



Input any English abbreviation or press / / / to select one from the list, then press to view its full form and Persian meaning. Press / to view upper or lower contents and press / to view other related words.

Press to go back to editor screen, with last inputted word. You can press or to clear the word. Press again to return to the previous screen.

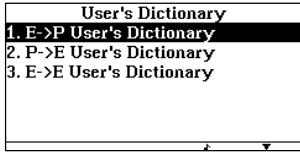
Press / to view the contents of the previous or next record.

Press to listen to the English pronunciation.

2-5 User's Dictionary

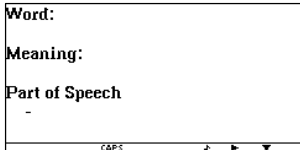
User's dictionary includes E→P user's dictionary, P→E user's dictionary and E→E user's dictionary, which you can use to enlarge your vocabulary.

Enter “E→P User's Dictionary” for example. The browse mode will be displayed directly if any records exist before.

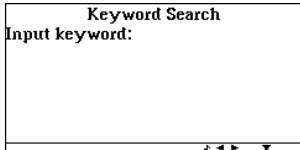


Press **Save** **New** to create a new record. Input the keyword and its meaning and press **Mark Edit** / **Mark Edit** to choose its part of speech. Press **Enter** to save the record.

Press **Mark Edit** to edit the record. Press **Enter** to save the record.



In the browse screen, press **Ctrl** **Shift** + **Mark** **More** to search for a word. Input the desired word, press **Enter** to confirm.

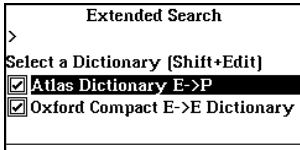


Press **Del** to delete the record.


Note: In the edit mode or view mode, the user can press **Volume** **[M]** to listen to the English pronunciation.

2-6 Extended Search

Enter "Extended Search" application. Input a word, then select a dictionary from Atlas Dictionary E->P, Oxford Compact E->E Dictionary or select both dictionaries by pressing **Cap** **Shift** + **Mark** **Edit** or clicking the icon before a dictionary in the screen and press **Enter** to confirm.



Press  /  to choose the desired keyword and press  to enter the explanation screen. Press  /  to view other related words.

Press  to return to the previous screen.

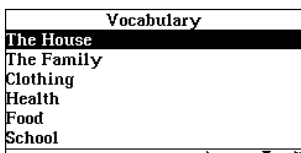
Chapter 3 English Language

3-1 Vocabulary

This application provides 18 categories of vocabulary in English and Persian.

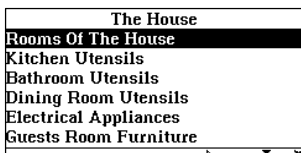
Enter "Vocabulary" application.

Press **▲** / **▼** / **▲^C** / **▼^{AC}** to select an item, and then press **Enter** to enter its submenu.



Press **▲** / **▼** to select an item, press **Enter** to view the contents.

Press **▲^C** / **▼^{AC}** to view the vocabulary related to the selected item in both English and Persian languages.



Press **◀** / **▶** to highlight an English or a Persian word, and then press **Enter** to cross search.

Press **◀** / **▶** to highlight an English word and then press **Listen** to listen to the English pronunciation.

Press **Lang** to change the display language.

Press **Cap** + **Font** to change the font size.

Press **Shift** + **Tab** to return to the previous screen.

3-2 Dialogue

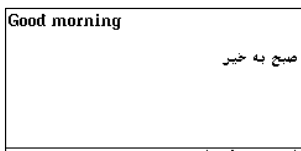
This application will help you in communicating with foreigners in 14

conversational topics.

Select one of the main topics and press



Select one of the subtopics.

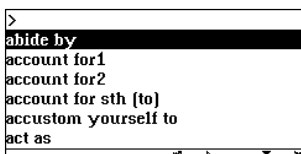


The other operation steps of “Dialogue” is the same as those of “Vocabulary”. Please refer to “Vocabulary” for details.

3-3 Phrasal Verbs E→P

This application provides English phrasal verbs with their Persian definitions.

Choose “Phrasal Verbs E→P ” application from “English Language” main menu.



Input few letters or words of an English phrasal verb, a list of phrasal verbs will be shown and you can press / / / to select

one from the list, then press to look it up.

Press / to view the contents of the previous or next record.

Press + to change the font size.

Press to change the display language.

Press to listen to the English pronunciation.

Press to go back to editor screen, with last inputted words or letters. You can press or to clear the letters. Press again

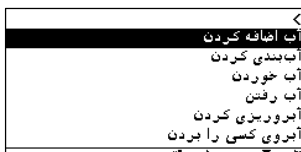
to return to the previous screen.

Note: Cross search and Wildcard Search are also available in this application.

3-4 Phrasal Verbs P→E



This application provides Persian phrasal verbs with their English definitions.

Choose “Phrasal Verbs P→E” application from “English Language” main menu.



The other operation steps of “Phrasal Verbs P→E” is similar to those of “Phrasal Verbs E→P”. Please refer to “Phrasal Verbs E→P” for details.

Press  to listen to the Persian keywords pronunciation.

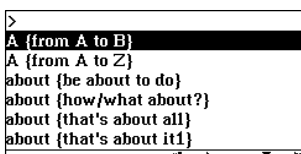
Press  to highlight an English word and then press  to listen to the English pronunciation.






Note: Cross Search and Wildcard Search are also available in this application.

3-5 Atlas Idioms E→P


This application provides English Atlas idioms with their Persian definitions.

Choose “Atlas Idioms E→P” application from “English Language” main menu.



Input few letters or words of an English idiom, a list of idioms will be shown and you can press  /  /  /  to select one from the list, then press  to look it up.

The other operation steps of “Atlas Idioms E→P” is similar to those of “Phrasal Verbs E→P”. Please refer to “Phrasal Verbs E→P” for details.

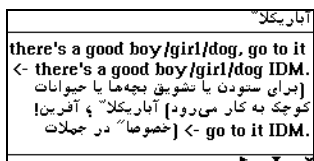
Press  to listen to the English pronunciation.

Note: Cross Search and Wildcard Search are also available in this application.




3-6 Atlas Idioms P→E

This application provides Persian Atlas idioms with their English definitions.

Choose “Atlas Idioms P→E” application from “English Language”. The other operation steps of “Atlas Idioms P→E” is similar to those of “Phrasal Verbs E→P”. Please refer to “Phrasal Verbs E→P” for details.



Press  to listen to the Persian keywords pronunciation.

Press  /  to highlight an English word and then press  to listen to the English pronunciation.

Note: Cross Search and Wildcard Search are also available in this application.

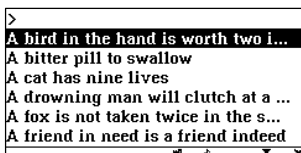
3-7 Proverbs E→P


This application provides English proverbs with their Persian

definitions.

Choose “Proverbs E→P” application from “English Language” main menu.

The other operation steps of “Proverbs E→P” is similar to those of “Phrasal Verbs E→P”. Please refer to “Phrasal Verbs E→P” for details.



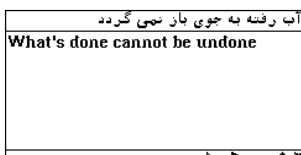
Press  to listen to the English pronunciation.

Note: Cross search is also available in this application.


3-8 Proverbs P→E

This application provides Persian proverbs with their English definitions.

Choose “Proverbs P→E” application from “English Language” main menu.



The other operation steps of “Proverbs P→E” is similar to those of “Phrasal Verbs E→P”. Please refer to “Phrasal Verbs E→P” for details.

Press  to listen to the English pronunciation.

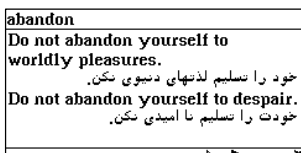
Note: Cross search is also available in this application.

3-9 English Examples



In this application, you can get one or more sentences in both English and Persian when you input an English keyword.


Choose “English Examples” application from “English Language” main menu.





Input an English word or press  /  /  /  to select one from the list, then press  to look it up.



Press  /  to view the contents of the previous or next record.

Press  +  to change the font size.







Press  to listen to the English pronunciation.

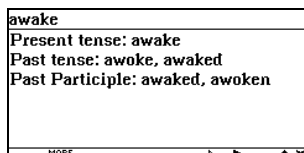
Press  to go back to editor screen, with last inputted word or letters. You can press  or  to clear the letters. Press  again to return to the previous screen.



Note: Cross search and Wildcard Search are also available in this application.



3-10 English Irregular Verbs


Choose “English Irregular Verbs” application from “English Language” main menu.


Input an English irregular verb or press  /  /  /  to select one from the list, then press  to view its past tense and past participle, e.g. input “awake”, then press .





Press  /  to view the contents of the previous or next record.

Press  +  to change the font size.

Press  to listen to the English pronunciation.

Press  to go back to editor screen, with last inputted word or





letters. You can press  or  to clear the letters. Press  again



to return to the previous screen.

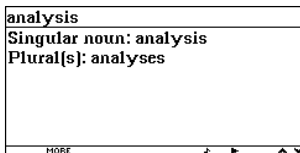
Note: Cross search is also available in this application.

3-11 English Irregular Plural Nouns



Choose “Irregular Plural Nouns” application from “English Language” main menu.


Input few letters of an English noun, a list of words will shown and you can press  /  /  /  to select one from the list, then press


 to view its plural(s). e.g. input “analysis”, then press .




Press  /  to view the contents of the previous or next record.

Press  +  to change the font size.

Press  to listen to the English pronunciation.

Press  to go back to editor screen, with last inputted word or

letters. You can press  or  to clear the letters.

Press  again to return to the previous screen.


Note: Cross search is also available in this application.

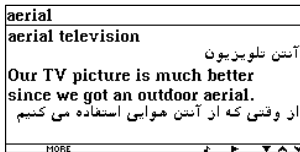
3-12 Shorties

Choose “Shorties” application from



“English Language” main menu.


Input an abbreviation or press  /  /  /  to select one from the





list, then press  to view its plural(s). e.g. input "aerial", then press



Press  /  to view the contents of the previous or next record.

Press  +  to change the font size.





Press  to listen to the English pronunciation.


Press  to go back to editor screen, with last inputted word or letters. You can press  or  to clear the letters. Press  again to return to the previous screen.

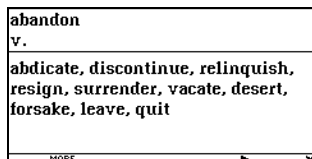
Note: Cross search is also available in this application.

3-13 Synonyms



Choose "Synonyms" application from "English Language" main menu.


Input few letters of an English word, a list of words will be shown and you can press  /  /  /  to select one from the list, then


press  to view its synonyms, e.g. input "abandon", then press






Press  /  to view the contents of the previous or next record.

Press  +  to change the font size.

Press  to listen to the English pronunciation.

Press  to go back to editor screen, with last inputted word or

letters. You can press  or  to clear the letters. Press  again to return to the previous screen.

Note: Cross search is also available in this application.

3-14 Antonyms


-- Please refer to the relevant parts of "Synonyms" for details.

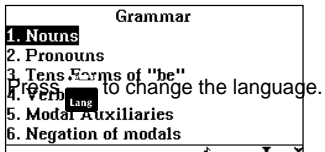
Chapter 4 Grammar






4-1 Grammar

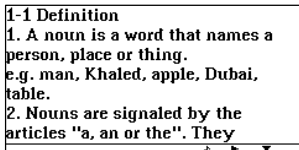
This application provides basic English grammatical rules with their definitions, usages and many other information.

Enter "Grammar" application.




Select an item by pressing  /  /  /  to highlight it and then press  to enter its submenu.



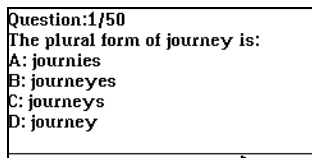
Press  /  /  /  to select an item and then press  to view its contents.



In the content screen, press  /  to view data line by line, and press  /  to view the data page by page.

Press  /  to highlight words, then press  to listen to the English pronunciation.

Press  /  to have a test related to the grammatical rule.



Press **A**, **B**, **C** or **D** to choose the desired answer. The result will appear whether the answer is correct or wrong. Press any key to continue.

Wrong Answer
The answer: C
Press any key
to continue

Press **Esc** to view the test result, and press it again to exit.

Note: Cross Search is also available in this application.

4-2 Test Your English Grammar

This application contains 1761 different questions. There are two kinds of test methods: Serial Questions and Random Questions.

4-2-1 Serial Questions

Enter "Test Your English Grammar" application.

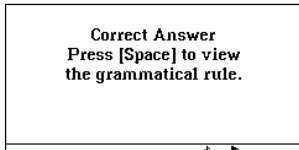
Press **▲** / **▼** to select "Serial Questions" then press **Enter**.

Test Your English Grammar
1) Serial Questions
2) Random Questions

Input the start question number, then press **Enter**. And Input the end question number, then press **Enter** to begin the test. e.g. input "1" then "5".

Question:1/5
Which of these words is a noun:
A: Beautiful
B: Quite
C: Governor
D: Amazing

Press **A**, **B**, **C** or **D** to select the desired answer. Then the result will appear whether the answer is correct or wrong.



In the result screen, you can press any key to continue and you can press **Space** to view the relevant grammatical rule. Press **Up** / **Down** / **Left** / **Right** to view more details and press **Esc** to return to the test. Press **Clear** to view the test result and press it again to exit.

4-2-2 Random Questions

In "Random Questions", you only need to input the number of questions you would like to answer, and then the questions will be shown randomly.

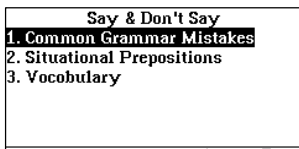
Note: Cross Search is also available in this application.







4-3 Say & Don't Say

This application provides some mistakes which we may make easily and their correct answers. It contains common grammar mistakes, situational prepositions, vocabulary in English.

Take "Common Grammar Mistakes" for example.

Enter "Say & Don't Say" application and choose "Common Grammar Mistakes" from it. Press **Up** / **Down** / **Left** / **Right** to highlight a submenu, then press **Enter** to confirm.



In the content screen, press  /  to view data line by line, and  /  to view the data page by page.
Press   to exit.

4-4 Punctuation Marks




This application provides definition, usages and many other information of punctuations.

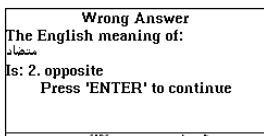
The operation steps of "Punctuation Marks" are exactly the same as the ones of "Say & Don't Say". Please refer to the relevant parts of "Say & Don't Say" for details.



Chapter 5 Quizzes

This application provides 10 types of quizzes which are very convenient for testing your English.

5.1 Vocabulary

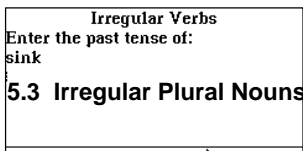
You can highlight “English to Persian” or “Persian to English” by pressing  / , then press  to confirm. Press the desired numeric key to choose the correct answer. The result will appear on the screen whether the answer is correct or wrong. If the answer is wrong, the correct answer will be shown.



Press  to continue. Press  to view the final result, and press it again to exit.

5.2 Irregular Verbs

Input an answer and then press  to view the result. Press  to continue. Press  to view the final result and press it again to exit.











The operation steps of “Irregular Plural Nouns” are similar to those of “Irregular Verbs”. Please refer to the relevant parts of “Irregular Verbs” for details.

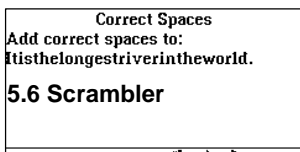
5.4 Shorties

The operation steps of “Shorties” are similar to those of “Irregular

Verbs”. Please refer to the relevant parts of “Irregular Verbs” for details.





5.5 Correct Spaces

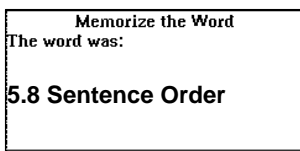
Press  /  to move the cursor, and then press  to add space in the proper place. Press  to remove spaces. Press  to view the result. Press  to listen to the English pronunciation. If the answer is wrong, the correct answer will be shown. Press  to continue. Press  to view the final result, and press it again to exit.



The operation steps of “Scrambler” are similar to those of “Irregular Verbs”. Please refer to the relevant parts of “Irregular Verbs” for details.

5.7 Memorize the Words

Set the memorizing time, from 1 to 5 seconds, and then press . After the memorizing time is up, input the word which was displayed, then press  to show the result. If the answer is wrong, the correct will be shown. Press  to continue. Press  to view the final result, and press it again to exit.



The operation steps of “Sentence Order” are similar to those of “Irregular Verbs”. Please refer to the relevant parts of “Irregular Verbs” for details.

Wrong Answer
The correct letters' order of:
creeal
ls: cereal
Press 'ENTER' to continue

5.9 Listening Comprehension Test

Input a paragraph number, from 1 to 15, and press **Enter** to confirm.
Press any key to listen to the paragraph. Press **Enter** after listening
the paragraph to begin the test. Press the desired letter key to select
an answer. If the answer is wrong, the correct answer will shown
on the screen. Press **Enter** to continue. Press **Clear** to view the final
result, and press it again to exit.

Listening Comprehension
Paragraph no. [1-15]:
6


5.10 Reading Comprehension Test

Input a paragraph number, from 1 to 15, and press **Enter** to confirm.
Press any key to read the paragraph. Press **Enter** after reading the
paragraph to begin the test. Press the desired letter key to select an
answer. If the answer is wrong, the correct answer will shown on
the screen. Press **Enter** to continue. Press **Clear** to view the final result,
and press it again to exit.



Chapter 6 Encyclopedia

6-1 Chemical Elements

This application provides a list of chemical elements sorted by atomic no., symbol and name.

Enter the desired item, then look for the desired element. Press  to view information about the chosen element.

Chemical Elements
1. Atomic no.
2. Symbol
3. Name






Note: Press  +  to enable the search function.


6-2 Test Your Knowledge






This application contains 244 different questions. There are two kinds of test methods: Serial Questions and Random Questions.

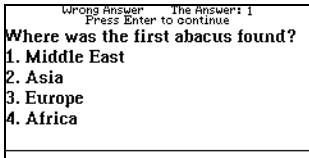
6-2-1 Serial Questions


Enter "Test Your Knowledge" application.

Press  /  to select "Serial Questions" then press . Input the start question number, then press . And input the end question number, then press  to begin the test. e.g. input "1" then "5".

Test Your Knowledge
Start at [1-244]: 

Press , ,  or  to select the desired answer. Then the result will appear whether the answer is correct or wrong in the same screen. Press  to continue.



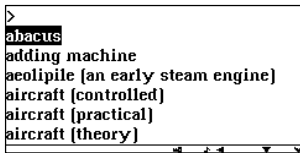
Press  to view the test result and press it again to exit.

6-2-2 Random Questions

In “Random Questions”, you only need to input the number of questions you would like to answer, and then the questions will be shown randomly.



6-3 Inventions & Inventors

This application provides many inventions and their inventors, times and places.





Enter “Inventions & Inventors” application. Input an invention then press


 to view its inventor, time and place.

Press  /  to view upper or lower contents of the record and press

 /  to view the previous or the next record.

Press  to go back to editor screen, with last inputted letters. You

can press  to clear the letters.





Press  to change the language.



Note: Nearest Word Search is also available to this application.

6-4 Internet

This application provides some Internet chat items and Internet

general items with their Persian meanings.

Press  /  to highlight the desired item and press  to enter its submenu. Input a word or a phrase related to Internet then press  to view its Persian meaning.

Press  to go back to editor screen, with last inputted letters. You can press  to clear the letters.

6-5 Universe



This application provides lots of information about Universe.

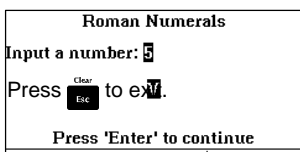
The operation steps of "Universe" are the same as those of "Inventions & Inventors". Please refer to the relevant parts of "Inventions & Inventors" for details.

6-6 Roman Numerals

In this application, you can look for the Roman equivalents of the numerals.

Enter "Roman Numerals" application.

Input a number ranging from 1 to 9999, e.g. "5", and then press  to view the equivalent Roman numeral. Press  to continue.



6-7 World's Main Languages

This application provides world's main languages' language families, the number of persons who speak the language and the places where people speak the language.

The operation steps of "World's Main Languages" are the same as those of "Inventions & Inventors". Please refer to the relevant parts of "Inventions & Inventors".


6-8 Calories

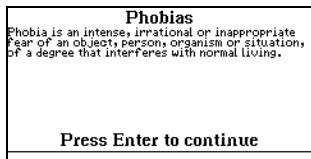
This application provides “Food Calories” and “Activities Calories”.

The operation steps of “Calories” are the same as those of “Inventions & Inventors”. Please refer to the relevant parts of “Inventions & Inventors”.

6-9 Phobias

This application provides the denominations of the most common phobias which are intense, irrational or inappropriate fear of an objects, persons, organisms or situations of a degree that interfere with normal living.

Enter “Phobias”, then the screen with the definition of phobias will appear, press  to continue.



The other operation steps of “Phobias” are the same as those of “Inventions & Inventors”. Please refer to the relevant parts of “Inventions & Inventors” for details.

6-10 Human Anatomy

This application provides kinds of tissues of human body with their Persian meanings.





The operation steps of “Human Anatomy” are the same as those of “Inventions & Inventors”. Please refer to the relevant parts of “Inventions & Inventors”.

Chapter 7 Organizer


7-1 Telephone

This application allows you to save data such as name, telephone number, address, fax, e-mail, mobile, category, etc. in both English and Persian languages.


7-1-1 Create a New Record





If there are no records saved, choose “Telephone” from “Organizer” and enter it, then you can input the required information, press  or  +  to save. If there are some records saved, enter “Telephone” and press  to create a new record.


Name:
Gender: female
Mobile 1:
Mobile 2:

Note: Press  to change the input language.

7-1-2 Search for a Record

To search for a record, press  +  to enter the searching mode. Press  /  to highlight “Name Search” or “Keyword Search” and press  to enter the selected mode.

In “Name Search” mode, press  /  to highlight “Persian Name” or “English Name” and press  to enter the selected name search mode, and then select the name and press  to view its data.

In “Keyword Search” mode, input the keyword and press  to view its data.

Press  /  to view other records.

Press  to exit.

7-1-3 Delete or Edit a Record

To delete a record, in the browse mode, highlight it and press **Del**; in the content mode, press **Del** directly, and then press **Y** to delete the record.

To edit a record, highlight it and press **Enter**, then press **Mark Edit**, or press **Mark Edit** directly, edit data and then save the changes.

7-2 Schedule

In this application, you can save the content, date and time of appointments. You can also set the alarm to remind you of the appointment's time. Data can also be marked to assure secrecy.

7-2-1 Data Entry

Enter "Schedule" application.

Press **Lang** to select English or Persian input mode.


Date:
11/10/1389
Time:
12:00AM - 12:00AM
Alarm:
12:00AM
Content:

Press **▲** / **▼** / **◀** / **▶** to move the cursor and use the keyboard to input the date and time.

To input special symbols, press **Shift** + **Space** and then press the corresponding numeric key to select one. Press **◀** / **▶** to get more symbols.

Press **A** or **P** to select "AM" or "PM" respectively.

Input the alarm time, then press **Shift** + **Calendar** to set the alarm on or off (off is set as default).

Note: If the alarm is switched on, the symbol  will appear beside the

alarm time.

Press **Shift** + **Mark Edit** to mark the record or cancel.

Note: To hide the marked record(s), you must set the password in “System Setup”.

After inputting the necessary data, press **Shift** + **New** or press **Enter** to save the record.

Note: To save a record, you must enter data in the “Content” field, or “Insufficient Information” will appear in the screen.

7-2-2 Searching, Editing and Deleting

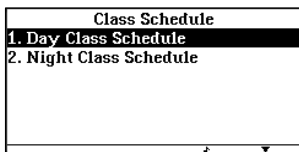
In “Schedule”, you can also search by “Date Search” and “Keyword Search”, edit and delete data. Please refer to the relevant parts of “Telephone” for details.

7-3 Class Schedule

In this application, you can save Day Class Schedule and Night Class Schedule. In both Schedule, you can save the course, teacher, time, location of a class. You can also set the alarm to remind you of the class' time.

7-3-1 Data Entry





Enter “Class Schedule” application. Choose “Day Class Schedule” or “Night Class Schedule” from “Class Schedule”, then press **Enter**.



Highlight where you need to create data in the sheet, then press **Enter**.

Press **Lang** to select English or Persian input mode.

	Sat.	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.
1			✓				
2							
3			✓				
4							
5							
6							
7							
8							

Press  /  /  /  to move the cursor and input the information of a class such as course, teacher, time, alarm time and location.

7-3-2 Saving, Editing and Deleting

In “Class Schedule”, saving, editing and deleting data are similar with those in “Telephone”, Please refer to the relevant parts of “Telephone” for details.

7-4 Memo

In this application, you can save the title and content of something important to you.



Title:
:

Content:

About creating a new record, inputting data, saving data, editing data and deleting data, please refer to the relevant parts of “Telephone” for details.

7-5 To Do List

In this application, you can save the things that you are to do by saving date, category, priority, status, content.

Choose “To Do List” from “Organizer” and enter it to create a new record. If there are any records saved before, Press  +  to create a new record.

Date:
11/10/1389
Category:
Personal
Priority:
1
Status:

About inputting data, saving data, editing data and deleting data, please refer to the relevant parts of “Telephone” for details.



7-6 Anniversaries

In this application, you can save anniversaries in Gregorian and Shamsi. Choose “Gregorian” and “Shamsi” from “Anniversaries” and enter it.






About creating a new record, inputting data, saving data, editing data and deleting data, please refer to the relevant parts of “Telephone” for details.

7-7 Calendar

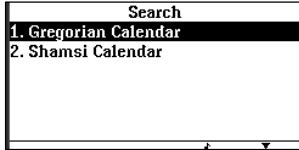
“Calendar” starts from 1970 to 2037 in Gregorian mode, and from 1389 to 1459 in Shamsi mode. It can be displayed either in Gregorian or Shamsi modes.



Enter “Calendar” application. Press  /  to view the previous or next month.

01/01/2011						
**	10	1389	**			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Press  +  to enter the search mode. Press  /  to highlight “Gregorian Calendar” or “Shamsi Calendar” and press  to enter

the selected searching mode.







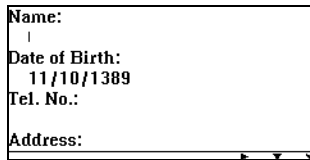
Input the desired date and press  to view its data. Press  to exit.


Note: If there is any record stored in "Anniversary", there will be an indicator "|" in the calendar; if there is any record stored in "Schedule", there will be an indicator "_" in the calendar.





7-8 Personal Information

There are 7 fields for personal data entry: Name, Date of Birth, Telephone Number, Address, ID Card, Blood Type and Other.

Enter "Personal Information" application, press  /  /  /  to move the cursor to different input fields.



After inputting data, press  to save the record.

Press  to edit the record, then press  to save the changes. Press  to delete the record. Press  to exit.

7-9 PC Link

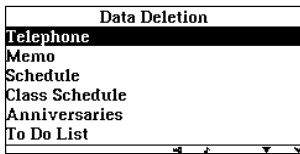
You can connect the device to a personal computer for two-way transmission, either sending or receiving data between the PC and the device: Send (PC to SD590p) or Receive (SD590p to PC).

Connect the device with your PC by using the cable provided with the device.

Caution: PC Link Program must be installed before connecting the USB cable.

7-10 Data Deletion

In this application, you can delete the data saved before, such as the data saved in Telephone, User's Dictionary or All Data.



Enter "Data Deletion" application.

Press **▲** / **▼** to select the item you want

to delete and press **END**.

The message "Delete all records? Yes / No" will appear. Press **N** to retain all records. Press **Y** and then the message "Confirm Deletion? Yes / No" will appear. Press **N** to retain all records. Press **Y** again to delete all the records of the selected item.


Press **Esc** to exit.

Chapter 8 Calculations



8-1 Scientific Calculator

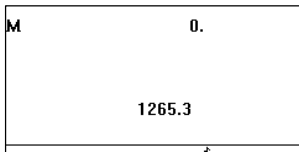
This calculator can perform the major functions of the scientific calculator. It includes various functions such as logarithm calculation, trigonometry, square root, cube root, etc.




Enter "Scientific Calculator" application.

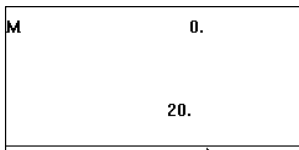
Press  to clear the numbers, and press it again to return to "Calculations" main menu.

8-1-1 Arithmetic Calculation




To calculate '786.1+479.2=?', enter '786.1' and press  (i.e. '+'), then enter '479.2' and press  (i.e. '=') to get the result. The result is '1265.3'.

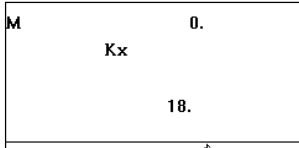


To calculate '200x10%=?', enter '200' and press  (i.e. 'x'), then enter '10' and press  (i.e. '%') to get the result. The result is '20'. Press  to clear the numbers.



8-1-2 "K" and Square Root Calculation

Enter '3' and press  (i.e. 'x'), then enter '2', and press  to get the result '6'. Press  once more to calculate '6x3=18' and so on.



To calculate $\sqrt{81}=?$, input '81', then press $\sqrt{}$ (i.e. ' $\sqrt{}$ ') to get the result '9'.

Press CMR to clear the numbers.

8-1-3 Other Calculations

To calculate $'1234+867+\cos 30=?'$, enter '1234' and press $+$ (i.e. '+'), then enter '867' and press $+$, then enter '30' and press \cos (i.e. 'cos'). Press Enter to get the result '2101.866025'.

Press CMR to clear the numbers.

Note: Press C to clear second part of formula. Press CMR to clear all formula. Other functions can be operated in the same way.

8-1-4 Memory

Press $\text{M}+$ (i.e. 'M+') to add the value to the memory.

Press $\text{M}-$ (i.e. 'M-') to subtract the value from the memory.

Press MR (i.e. 'MR') to view the value stored in the memory.

Press MC (i.e. 'MC') to delete the value in the memory.

8-2 Metric Conversion

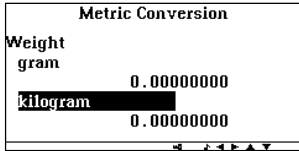
There are 6 categories in Metric Conversion which are length, area, capacity, weight, temperature and power. Two-way conversion is available for all units.

Enter "Metric Conversion" application.

Press \leftarrow / \rightarrow to select one measurement or press Enter to enter the

"Measurements" screen, press \uparrow / \downarrow to highlight the desired

category and press Enter to confirm. e.g. select "Weight".



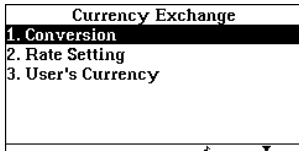
Press / to switch between upper and lower fields. Press / to select one unit or press to enter the “Units” screen. Press / to highlight the desired unit and press to confirm. Input the value you want to convert in the selected field and press to get the conversion result.

Press to return to “Calculations” main menu.

8-3 Currency Exchange

42 kinds of currencies are collected and two-way conversion is available for all units. You can also set 2 user’s currencies.

Enter “Currency Exchange” application.



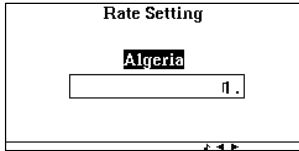
8-3-1 Conversion

Highlight “Conversion” in “Currency Exchange” submenu and press to confirm.

Press / to switch between upper and lower fields. Press / to select the desired currency for conversion. Enter the value you want to convert and press to get the conversion result.

8-3-2 Rate Setting

Highlight “Rate Setting” in “Currency Exchange” submenu and press to confirm.



Press / to select the desired currency.

Enter the desired rate and press to confirm the setting.

8-3-3 User's Currency

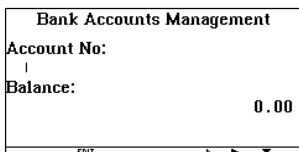
Highlight "User's Currency" in "Currency Exchange" submenu and press to confirm. Press / to highlight a user's currency field and press to enter the input mode. Input the currency name and press to save. Press to exit. Press to exit.

8-4 Bank Accounts Management

This application allows you to save your bank account number and balance.


8-4-1 Create A New Record

Choose "Bank Accounts Management" from "Organizer" and enter it, then you can view the contents of the record saved before or create a new record if there are no records saved. Input the required information, then press or + to save.





8-4-2 Search and edit more information



Choose "Bank Accounts Management" from "Organizer" and enter it, press / / / to highlight the desired record and press + + to search for more information. Then press / / / to

highlight "Transfer" or "Report" and press  to see more information of the selected record.

Bank Accounts Management	
1. Transfer	
2. Report	

In "Transfer" item, you can also edit the data. Input the date and press  /  to highlight "Credit" or "Debit" and then input the credit or debit value of the selected item, then save them.

Report	
Account No.:	678
Previous Balance:	980
Total Credit:	0
Total Debit:	0
Next Balance:	980


Press  /  to view other records.






Press  to exit.

Transfer	
Date:	24/11/2010
Credit/ Debit:	0.





8-5 Size Equivalents

This application allows you to search for size equivalents in some different countries.

Choose "Size Equivalents" from "Calculations" and press  to enter its submenu.

Press  /  /  /  to highlight the desired item and press  to confirm.

Size Equivalents	
Men's shirts	
Men's shoes	
Women's blouses	
Women's shoes	

You can press  /  to see more sizes equivalents and press  /  to see more countries' equivalents.










Women's shoes			
U.S.A.	4	4.5	5
U.K.	2.5	3	3.5
Europe	34.5	35	35.5
Taiwan	66	67	68
Japan	21.5	22	22.5
France	36	36.5	37




8-6 Math Formulas

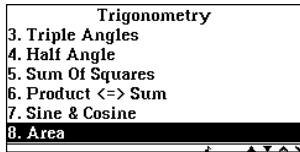
This application provides six categories of math formulas and in each category there are also several kinds of formulas.

Enter "Math Formulas" application.

Math Formulas
1. Algebra
2. Trigonometry
3. Plane & Space
4. Combination
5. Calculus
6. Numerical Method

Press  /  /  /  to highlight the desired category and press  to confirm. And press  /  /  /  to highlight the

desired kind then press  to enter. You can press  /  to see upper or lower contents.




Press  /  to view the contents of the previous or next kind.

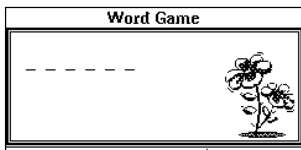
Press  to exit.










Chapter 9 Games

This application includes 5 interesting games for your leisure.

9-1 Word Game




Enter "Word Game" application. You can press  to listen to the pronunciation. You have 9 chances to input letters to guess the pronounced word, otherwise, you will lose.

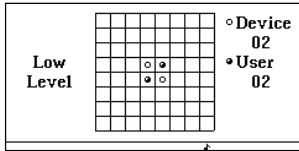


1. The number of hyphens on the screen represents the number of letters of the word to be guessed. If you input a wrong letter, press  once, or press  to get a hint, a chance will be deducted and the number of lost chances will be shown on the screen. (Note: Press  +  to view the Persian explanation for the hidden word.)
2. When you input a correct letter, it will be displayed in the appropriate position. If you cannot guess the correct word within 9 chances, then you will lose the game. After finishing the guess, the correct answer and its explanation in Persian will be displayed.
3. Press  /  to continue the game. Press  to exit, the message "Exit? Yes / No" will then appear. Press  to continue playing the game, or press  to view the result and exit.

9-2 Square Chess

Enter "Square Chess" game.

Press  /  to highlight "Low Level" or "High Level" and press  to confirm.

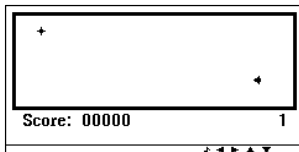


1. Press **▲** / **▼** / **◀** / **▶** to move the checker to the desired place and press **Enter** to confirm.
2. The device and the user play the checker successively. Only the checker placed in a blank pane and traps the opponent's checkers is valid. The checkers trapped by any opponent will be turned over. Whoever occupies more checkers at last will be the winner.
3. Press **Esc** to exit, the message "Exit? Yes / No" will then appear. Press **N** to continue playing the game, or press **Y** to exit.

9-3 Shooting

Enter "Shooting".




Press **▲** / **▼** to select First, Second or Third Level and press **Enter** to start the game.

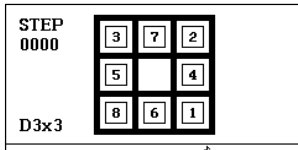









1. Press **▲** / **▼** / **◀** / **▶** to move the machine gun to aim at the targets or bombs and press **Enter** to shoot. 100 points will be gained for each target shot, and 200 will be gained for each bomb shot.
2. Press **P** to pause, and press it again to resume the game. If the machine gun is exploded by a bomb or hit by a target, the game will be over.
3. Press **Esc** to exit, the message "Exit? Yes / No" will then appear, press **N** to continue playing the game, or press **Y** to exit.

9-4 Puzzle

Enter "Puzzle" game.




Press  /  to highlight "Low Level" or "High Level" and press  to start the game.

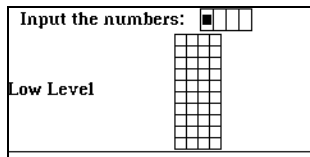





1. Press  /  /  /  to move the blocks. The number of steps will be shown on the left side of the screen.
2. If all the numbers are arranged in an increasing order horizontally, the player will win.
3. Press  to exit, the message "Exit? Yes / No" will then appear. Press  to continue playing the game, or press  to exit.



9-5 Chess Wisdom

It is a very interesting pastime game that is also helpful to improve your analysis ability.

Choose and enter "Chess Wisdom ". Press  /  to select "Low Level" or "High Level", then press  to enter the game.



1. Press  /  to move the cursor and input four numbers from 0-9, then press  to confirm and the result will be displayed:
 - indicates both the number and the position are correct;
 - indicates the number is right but the position is wrong.



2. If you can not get the correct answer within ten chances, you will lose the game.
3. Press  to view the answer.
4. Press  to exit.

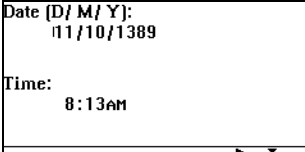
Chapter 10 Miscellaneous



10-1 Date, Time and Local City


In this application, you can set the time, date of the selected local city.


Enter "Date, Time and Local City" application.



Press  /  to toggle between the day, month and year to set the date.



Press  /  to move to the time field and set the time.



Press  to save the setting, and enter the local city screen.

Input the desired local city or country, then press  to view the related information.


Press  +  in the local city screen to set the daylight-saving time.

10-2 Daily Alarm


You can set the alarm time and switch it "ON" or "OFF".


Enter "Daily Alarm" application. Press  /  to set the alarm "ON" or "OFF".



Press  /  to move to the alarm time field and input the desired

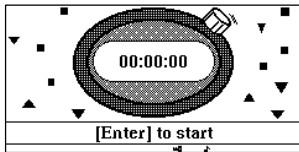
time.

Press  to save the setting.



Press  to exit without saving the setting.



10-3 Stopwatch

Enter "Stopwatch" application.



Press  to start timing. Press  to pause, but the interior clock will continue working.






Press  to exit. When entering the "Stopwatch" application again, it will show the interior time and go on counting. Press  to make the stopwatch go on counting starting from the interior time.

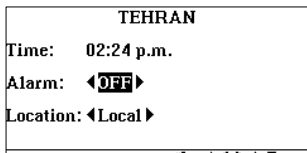
Press  to stop the stopwatch. Press  to reset the timer.


Press  to exit.

10-4 Prayer Times

This application allows you to know the prayer times in your local city or in any world city you choosed.

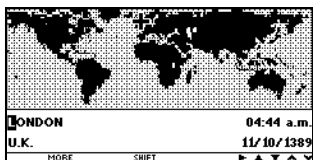
Press  /  to choose "Alarm" or "Location", press  /  and  to set the alarm on / off or set the location between "World" and "Local".





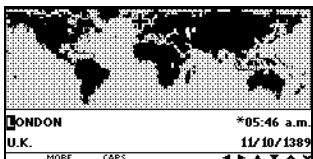
Press  to view the prayer times of the chosen city.




10-5 World Time



You can type the first letters of one city to find it, for example, type “amm” for “Amman”. You can also type its full name.



Note: Press  +  to set the daylight-saving time.

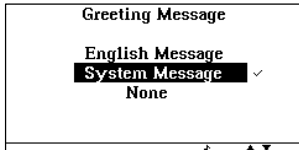



Press  or  /  to view more information about the selected city.

In this application, you can also press  to select a city and press  twice, you will then find the distance between the selected city and the holy city Mecca.





10-6 Greeting Message


Enter "Greeting Message" application.




Select "English message" to input a desired greeting message, and press .

Input a greeting message.

To input special symbols, you can press  +  and then press the relevant numeric key to select one. Press  /  to get more symbols.

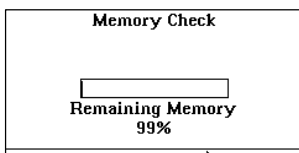
Press  to listen to the greeting message's pronunciation.


Press  to save the data and exit.

10-7 Memory Check

This application shows the free memory in percentage.

Enter "Memory Check" application.



Press  to view the number of records saved in different applications.

Press  to exit.

Chapter 11 System Setup

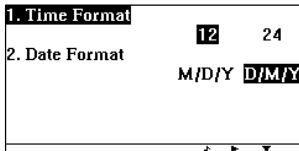
There are eleven items in System Setup: Display Format, Calendar Setup, Auto Power-off Time, Hot Keys Setup, LCD Contrast, Keys' Sound, Sound Setup, Password, Favorite Language, Device



Information and Favorite Location.



11-1 Display Format


You can set the time and date format of the device.


Enter "Display Format" application.



Press  /  to select the desired format item. (e.g. select "Time Format")

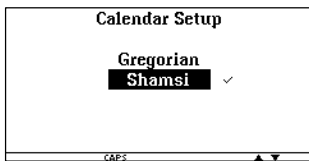
Press  /  to choose the desired display format for time and date. (e.g. choose "12" for Time Format)



Press  to save the setting.


Press  to exit without saving the setting.


11-2 Calendar Setup

Enter "Calendar Setup" application.



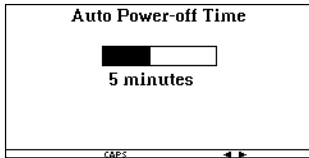
Press  /  to set the Calendar.

Press  to save the setting.

Press  to exit without saving the setting.

11-3 Auto Power-off Time

Enter "Auto Power-off Time" application.



Press / to set the auto power-off time.

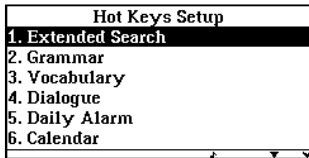
Press to save the setting and exit.

Press to exit without saving.

11-4 Hot Keys Setup

There are seven applications defaulted as hot keys. You can select other applications to replace the old ones to act as hot keys, which allows you to enter those applications directly after pressing .

Enter “Hot Keys Setup” application.



Select the application you would like to replace and press .

Press / / / to select the application you want to replace the old one with, then press to confirm.

After setting the hot keys applications, press and the hot keys applications you set will be displayed.

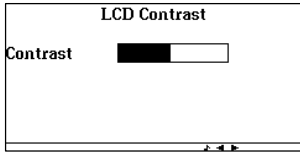
Press / or relevant numeric key to select any of them and



press to enter the selected application.


Press to exit.


11-5 LCD Contrast

Enter “LCD Contrast” application.



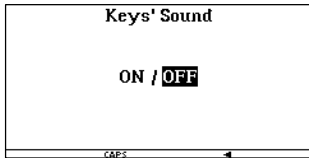
Press  /  to set the LCD Contrast.



Press  to save the setting.


Press  to exit without saving the setting.


11-6 Keys' Sound

Enter "Keys' Sound" application.



Press  /  to set the keys' sound "ON" or "OFF".

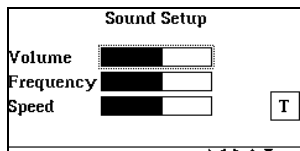
Press  to save the setting and exit.





Press  to exit without saving.


11-7 Sound Setup


In this application, you can set the speech volume, frequency and speed.


Enter "Sound Setup" application.



Press  /  to choose "Volume", "Frequency" and "Speed", then press  /  to adjust the setting.

Press  to test the speech setup.

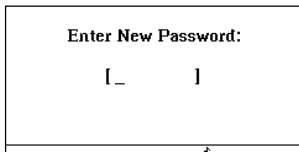
Press  to save the setting and exit.



Press  to exit without saving.



11-8 Password


You can set and change the password in "Password" application and you can also set it On or Off.

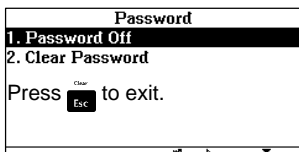
Enter "Password" application.



Input a new password with a maximum of 8 English letters or numbers and press . Confirm the password and press , the password will then be set and activated. Enter "Password" application, after setting the password the shown screen will appear.

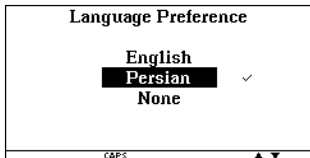
Select "Password Off", input the password, and then press  to set the password off. When the password is set off, enter "Password" again, select "Password On" and press  to activate it.



Select "Clear Password", input the old password, and then press  to clear the password.



11-9 Language Preference




Enter "Favorite Language" application.



Press  /  to select the Persian, English or None as the display language. If "None" is selected, you will be asked to select the display language when turning on the device.

Press  to exit.

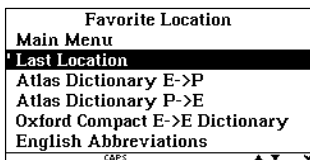
11-10 Device Information




Press  /  to select "Device Information" from the list, and then press  to view the information of this device.

11-11 Favorite Location

"Favorite Location" enables you to set the application you would like to enter directly once the device is turned on.

Enter "Favorite Location" application.



Press  /  to select an item, then press  to confirm. The selected application will be marked as shown in the screen.

Press  to exit.

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