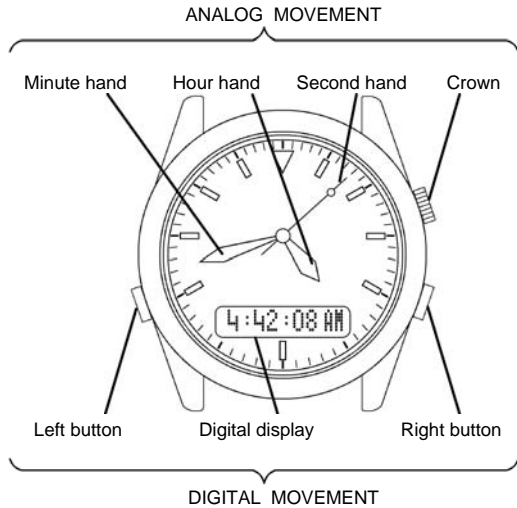


## IN THE NAME OF GOD, THE MERCIFUL, THE COMPASSIONATE

This is an analog-digital watch for Muslims. It combines the features of an analog watch with those of a digital watch. The analog and digital movements are independent and have separate batteries.



### FEATURES

1. Analog watch: three hands (hour, minute, seconds), luminescent at night.
2. Bilingual digital display: Arabic and English in same watch, including numbers; electro-luminescent display (ELD) backlight for night-time visibility.
3. Prayer times, Qibla, Hijra and western (Gregorian) dates in over 1000 cities around the world. Can also be programmed for any other location in the world.
4. Prayer times: Fajr/Shorooq, Zuhr, Asr, Maghrib, and Isha anywhere in the world; adjustable Shafie/Hanafi Asr time.
5. Qibla anywhere in the world, relative to the sun, moon, or north.
6. Three alarm times:
  - a prayer alarm adjustable to 0-30 minutes before each prayer time;
  - a daily alarm for recurring appointments;
  - an alarm for one-time appointments.
7. Stainless steel case and band.
8. Water resistance to 30 meters.
9. One-year warranty.

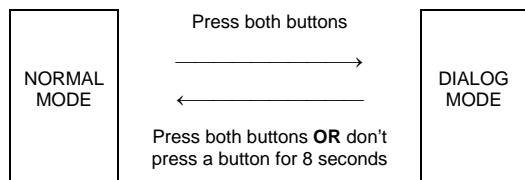
### THE TWO MODES OF OPERATION

The watch can operate in two modes: **Normal Mode** and **Dialog Mode**.

The watch will be in Normal Mode most of the time. When it is in this mode it simply displays information on its digital display, information such as the time of day, Hijra or western dates, the day of the week, and alarm indicators. If you haven't pressed a button in the last 8 seconds, the watch will automatically switch to Normal Mode, whatever it was doing previously.

If you want to do anything else with the watch – such as changing its settings or finding the Qibla – you have to put the watch in Dialog Mode.

To switch from one mode to the other you simply press both buttons simultaneously, and then release them. This diagram explains how to switch between modes:



### DIALOG MODE

As already explained, you must press both buttons simultaneously to put the watch in Dialog Mode.

The watch will then offer alternatives to you, one by one, on the digital display. In this example, the watch is offering to display today's prayer times. In effect, it is asking the question, "Do you want to see the prayer times for today?" Each alternative will remain on the display until you press a button. You have up to 8 seconds to press a button; otherwise the watch will revert to Normal Mode.

- You should press the **left button** if you do **not** want the alternative that is currently showing on the digital display. Pressing the left button is like telling the watch, "No! I don't want this alternative. Show me the next alternative." After you have released the left button, the watch will then present the next alternative. If you keep pressing the left button for more than

two seconds, the watch will begin to offer alternatives one after another, at a rate of one alternative per second, until you release the button.

- Press the **right button** if you **do** want the alternative that is currently being displayed. Pressing the right button means, "Yes. I want this alternative".

This is all you need to remember in order to operate the watch in Dialog Mode.

(We will explain how to control the watch in Normal Mode after we have explained how to get started.)

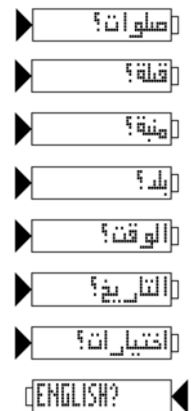
### GETTING STARTED

When you first receive the watch you should perform these checks/operations :-

1. Pull out the crown (if it isn't already out) and set the hour and minute hands to the correct time of day. Then push the crown back in. (If the second hand does not then start to move, or moves slowly, it means that the analog battery is dead. A professional watch repairer should replace it with a new 1.5 volt silver oxide battery, # SR521SW. The new battery should last about two years.)
2. The factory may have deliberately turned off the digital display in order to conserve the digital battery. If so, you can turn on the display by pressing either of the buttons. (If the display remains blank, it means that the digital battery is dead and should be replaced by a new 3 volt lithium battery, # CR2016. A professional watch repairer should do this. The battery will last 18 to 24 months.)
3. This watch can communicate in either Arabic or English. If it is in Arabic mode when you first receive it, you can switch it to English by following these steps:

Put the watch in Dialog Mode (by pressing both buttons), then press the left button repeatedly (or keep holding it down) until the question "**ENGLISH?**" appears.

When you do this, you should see the following sequence of displays ...

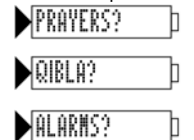


When the question "**ENGLISH?**" appears, press the right button.

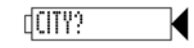
(Of course, you should not do this if the watch is already displaying in English.)

4. Now tell the watch where you live by putting the watch in Dialog Mode and then selecting **CITY**.

In other words, press both buttons, then press the left button three times (to say "No" the first three questions: **PRAYERS?**, **QIBLA?**, **ALARMS?**) ...



... then press the right button to say "Yes" to the fourth question, "**CITY?**".



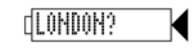
Select your region or continent (e.g. **EUROPE**), in the same way as you selected **CITY**.



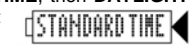
Select your country (e.g. **UNITED KINGDOM**).



Select your town or city (e.g. **LONDON**).



Some countries adopt Daylight Saving Time in the summer. If you live in one of these countries, the watch will now offer these alternatives: first **STANDARD TIME**, then **DAYLIGHT SAVE**. In the winter you should select **STANDARD TIME** ...



... but in the summer you should select **DAYLIGHT SAVE**.



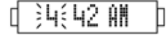
If you don't live in a country that has

adopted Daylight Saving Time you will not be offered the choice of **STANDARD TIME** or **DAYLIGHT SAVE**.

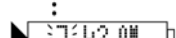
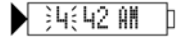
After you have set the **CITY** the watch will display "PLEASE WAIT" while it performs some calculations. Then it will revert to Normal Mode.

- Set the time of day, by putting the watch in Dialog Mode and selecting **TIME**. Then select **SET TIME** (this is the first alternative, so you don't need to press the left button at all).

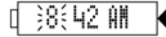
The hour should now be flashing.



Use the left button to adjust the hour -



- until the current hour is showing; then press the right button. (You can adjust the hour more quickly by pressing the left button continuously, i.e. not releasing it.)



The minute should now be flashing. Set the minute, in the same way as you set the hour.

The AM/PM indicator should now be flashing. Use the left button to change the indicator if necessary (from **AM** to **PM** or from **PM** to **AM**), then press the right button.

After the **TIME** has been set, the watch will return to Normal Mode.

- Next, set the western (Gregorian) date, as follows:

Press both buttons., then select **DATE**, then select **SET DATE** (this is the first alternative).

The date should now be displayed, with the day flashing.

Set the day, month and year, in that order – in the same way as you set the time of day.

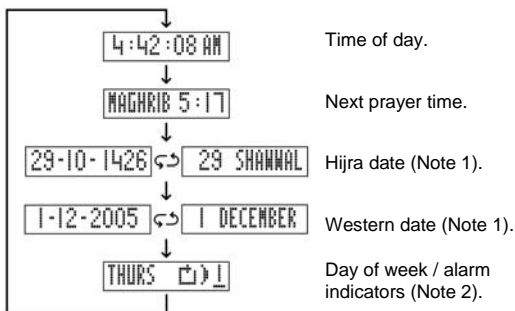
## NORMAL MODE

After the setup procedure has been completed, the watch will take a few seconds to calculate the prayer times. Then it will assume its Normal Mode of operation, at first displaying the time of day on the digital display.

The buttons behave slightly differently in the Normal Mode from the way they do in Dialog Mode:

- Pressing the left button still means, "I don't want the information now showing on the digital display. Show me something else".
- However, pressing the right button simply turns on the light. It doesn't cause the displayed information to change. The light will stay on for three seconds. If you put the watch in Dialog Mode (by pressing both buttons) while the light is on, the light will stay on for as long as you are in Dialog Mode.

When the watch is in Normal Mode, the information displayed on the digital display, will change each time you press the left button. That information will stay on the display until you press the left button again.



Note 1: Two formats, alternating every 3 seconds.

Note 2 :Each of the three types of alarm has a symbol:

- Daily Alarm
- One-time Alarm
- Prayer Alarm

## HOW TO DISPLAY PRAYER TIMES

The times of all of today's five prayers, and also of Shoroq, can be displayed by first putting the watch in Dialog Mode, then selecting **PRAYERS**.

## HOW TO DISPLAY THE QIBLA

The Qibla can be indicated relative to the sun, to the moon or to true north. This section explains the procedure in the case of the sun; the other cases are similar.

After putting the watch in Dialog Mode, you should select **QIBLA**, then **BY THE SUN**. After you have done this, the watch will display "PLEASE WAIT" for a few seconds while performing some calculations.

Then this display will appear for about seven seconds. It shows two things: (a) an arrow (here, the arrow is pointing towards 3 o'clock), and (b) a number of minutes past the hour (in this case, 17 minutes). You can use either of these two things to find the Qibla, but the arrow is less accurate than the number of minutes. There is a margin of error of up to 22 degrees if the arrow is used; if the number of minutes is used, the margin of error is only 3 degrees.



Whichever method you want to use (arrow or number of minutes), you should first stand up, with the watch held *horizontally* in front of your chest, so that 12 o'clock is pointing *horizontally* straight ahead of you. Then you should then turn yourself around a certain amount. This amount depends on the method you are using (see below). As you turn, don't change the position of the watch relative to yourself. Keep the watch in front of your chest, and make sure that 12 o'clock continues to point straight ahead of your chest as you rotate yourself.

- if you wish to use the arrow, you should turn your body, until this arrow points *horizontally* towards the sun. In our example, the sun should then be at 3 o'clock.

- If you wish to use the number of minutes, you should first visualize an imaginary minute hand pointing to (in our example) 17 minutes past the hour. Then you should turn your body until this imaginary minute hand points *horizontally* towards the sun.

Seven seconds later, this display will appear, indicating the direction of Makkah. If you have orientated yourself and the watch correctly, the Qibla will always be at 12 o'clock.



If you are very close to Makkah, or if the sun is directly overhead, the watch cannot compute the direction of Makkah accurately. In this case it will display the message "TOO NEAR".

## HOW TO USE THE ALARMS

### PRAYER ALARM

The watch can sound a warning before each prayer. You can arrange this by (1) putting the watch in Dialog Mode, (2) selecting **ALARMS**, and (3) selecting **PRAYER ALARM**.

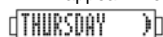
This display will then appear, with the number of minutes flashing. Use the left button to adjust the warning time between 0 and 30 minutes before prayer time, then press the right button.



Next, you will see that a symbol is flashing on the right side of the screen. If you press the left button a few times you will see that this symbol is either or You should select if you wish to arm the Prayer Alarm (turn it on). Selecting turns the Prayer Alarm off (makes it silent).



If the Prayer Alarm is armed, then this symbol will appear when the watch is displaying the Day of the Week in Normal Mode, like this:



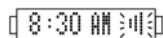
### DAILY ALARM

You can set an alarm to go off at the same time every day; for example, when you must leave for work. You do this by (1) putting the watch in Dialog Mode, (2) selecting **ALARMS**, and (3) selecting **DAILY ALARM**.

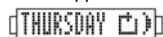
This display will then appear, with the hour flashing. Set the time at which the Daily Alarm is to sound, just as you set the time of day when you set up the watch initially.



After you have chosen **AM** or **PM**, the watch will not immediately return to Normal Mode, as it did when you set the time of day. Instead, you will see that a symbol is flashing on the right side of the screen. If you press the left button a few times you will see that this symbol is either or You should select if you wish to arm the Daily Alarm (turn it on). Selecting turns the Daily Alarm off (makes it silent).



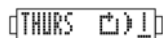
If the Daily Alarm is armed, then this symbol will appear when the watch is displaying the Day of the Week in Normal Mode, like this:



### ONE-TIME ALARM

You can set an alarm to go off at a particular time; for example, to remind you of a special appointment. The alarm will go off at the specified time, and then will reset itself automatically so that it does not sound again the next day.

The procedure is the same as the one for setting the Daily Alarm. The only difference is that if the One-Time Alarm is armed, then this symbol will appear when the watch is displaying the Day of the Week in Normal Mode, as in this example which shows that all three alarms are armed.



## HOW TO STOP THE SOUND OF AN ALARM

Each of the three alarms sounds for 10 seconds. Pressing the right button will cancel the sound immediately. Pressing the left button will turn on the light.

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## DAYLIGHT SAVING TIME (DST)

Many countries, such as those in Europe, North America, Asia and Australia, adopt DST in the summer. If you live in one of these countries you must be careful to make the correct choice between **STANDARD TIME** and **DAYLIGHT SAVE** when you are setting the **CITY**. If you don't, the watch's prayer times will be incorrect by one hour. However, if you do make this mistake it is easily corrected by resetting the **CITY** (correctly this time), then the **TIME**.

Countries on DST put their clocks forward one hour in the spring (usually March or April). On the day this happens you should (1) put the watch in Dialog Mode, (2) select **TIME**, then (3) select **+ 1 HOUR**. In the fall or autumn when the clocks are put back one hour, you should (1) put the watch in Dialog Mode, (2) select **TIME**, then (3) select **- 1 HOUR**.

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## HOW TO SET YOUR LOCATION

The watch is preprogrammed for over 1000 cities around the world, so it is very likely that you live in or near one of them. However, even if you live in some other location you can still use the watch, but you must tell the watch precisely where you are located and give it information about your time zone and DST.

First, you should assemble this necessary information from the Internet, atlases, encyclopedias, maps, etc.

- Your time zone, i.e. the difference between Greenwich Standard Time and your local time, in hours. For example, the time zone of New York City is 5.00 hours.
- Does your country use Daylight Saving Time in the summer? If so, find out whether it is currently on Standard Time or Daylight Saving Time.
- Latitude in degrees and minutes (north or south).
- Longitude in degrees and minutes (east or west).

Then you should: (1) put the watch in Dialog Mode, (2) select **SETTINGS**, (3) select **LOCATION**, (4) adjust and register the latitude (degrees, minutes, and **NORTH/SOUTH**), (5) adjust and register the longitude (degrees, minutes, and **EAST/WEST**), (6) adjust and register the time zone (in hours and half-hours), and finally (7) select **STANDARD TIME** or **DAYLIGHT SAVE**. Note that if your country does not use DST you should select **STANDARD TIME** in step (7).

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## PRAYER TIMES

There is some variation throughout the world in the way prayer times are calculated, especially the times of Fajr, Asr and Isha. These different calculation methods have been incorporated in the watch, as explained by the following table.

The watch will automatically select the appropriate local method when the **CITY** is chosen. However, you can choose a different calculation method, if you wish: (1) put the watch in Dialog Mode, (2) select **SETTINGS**, (3) select **CALC METHOD**; (4) Select one of the following :

- **ISLAMIC LEAG** (World Islamic League) for Europe, Far East, and parts of U.S.A.
- **UM UL-QURA** (Um Ul-Qura University, Makkah) for Saudi Arabia.
- **UNIV ISLAM SCI** (University of Islamic Sciences, Karachi) for Pakistan, Bangladesh, India, Iran, and Afghanistan.
- **E G O S** (Egyptian General Organization of Surveying) for Africa, Palestine, Syria, Iraq, Lebanon, Malaysia, Indonesia, and parts of USA.
- **I S N A** (Islamic Society of North America) for most of USA and Canada.
- **I C C LONDON** (Islamic Cultural Centre, Regent's Park, London) for London and several other cities in the UK.
- **TURKEY** for the Republic of Turkey.
- **OMAN** for the Sultanate of Oman.
- **YEMEN** for the Republic of Yemen.

In addition, you can separately control the way the Asr prayer time is calculated. The University of Islamic Sciences (Jamia-tul-Uloom-il-Islamiyyah), Karachi, calculates the Asr prayer time according to the Hanafi tradition, but all of the other methods follow the Shafie tradition. In order to over-ride this you should (1) put the watch in Dialog Mode, (2) select **SETTINGS**, (3) select **HANAFI** or **SHAFIE**, as appropriate.

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## THE QIBLA

As already noted, the watch can display the Qibla relative to the sun, to the moon, or to true north. If you choose the last of these (**BY THE NORTH**) and use a magnetic compass to find true north, you should be aware that compasses do not actually point directly towards true north because they are influenced by nearby metal objects (e.g. telephones), mountains, and local mineral deposits. It is better, therefore, not to use a magnetic compass to find true north, but to find the direction of true north from local maps or by referencing the North Pole Star.

When displaying the Qibla in Jeddah, the watch assumes that you are in Al Bilad, the old part of that city.

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## HIJRA DATE

The watch calculates the Hijra date from the western (Gregorian) date. Occasionally, the Hijra date displayed by the watch may differ by one day from the official Hijra date. In this case, you can correct the Hijra date: (1) put the watch in Dialog Mode, (2) select **DATE**, (3) select *either* **+1 HIJRA DAY** or **- 1 HIJRA DAY**, appropriate.

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## ADJUSTING THE CONTRAST

The contrast level of the digital display can be adjusted between level 5 and level 15, as follows: (1) put the watch in Dialog Mode, (2) select **SETTINGS**, (3) select **ADJ CONTRAST**, (4) use the left button to change the contrast level, (5) press the right button to select the contrast level you prefer. The contrast is set initially to level 8 by the factory.

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## PRECAUTIONS

The watch may be damaged by high temperatures over 60C. Low temperatures will not permanently damage the watch but they may make it lose time.

The watch may be safely worn in a bath or shower, or when swimming. Do not use it when deep-sea diving, however.

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## WARRANTY

The watch has a limited one-year warranty against faults in materials or manufacture. If it malfunctions within one year of the date of purchase, it will be repaired free of charge. To receive service the watch must be presented, together proof of the date of purchase, to the Hillal Watch distributor from whom you purchased the watch. Your claim will not be allowed if the fault was caused by improper use or treatment. Specifically, it will not be allowed if the fault was caused by dropping the watch onto a hard surface, or if the watch was opened by someone who is not a professional watch repairer. This warranty does not extend to the case, band, crystal or battery.

[www.hillalwatch.com](http://www.hillalwatch.com)

Worldwide patents pending

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