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Global Atomic Watch

SN005 Instructions



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What is Atomic Radio Control?

Atomic radio control watches are the most precise time keeping devices in the world. They keep time to the accuracy of more than 1 second in one million years. Until recently, the atomic watches were only found in laboratories and special institutions and were very large and expensive. When various governments began to broadcast atomic, electronically encoded signals with their own national time, the accuracy of the atomic radio control watch became available to the general public. Recent technology enabled this process to be miniaturized and to be offered at a reasonable cost.

The Global Atomic Watch takes it one step further. Until the development of this type of watch, atomic watches were able to receive and decode signals from only one transmitter.

What is Atomic Radio Control?

Watches made to receive signals in Europe did not work in the USA or vice-versa. A different watch was needed for each time signal. This watch changes it all. It is able to receive signals transmitted by the various government locations in Figure 1:

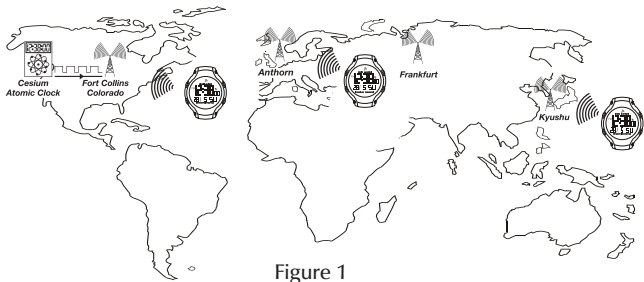


Figure 1

What is Atomic Radio Control?

- Fort Collins, Colorado, which covers all 4 zones in the continental USA.
- Anthorn, UK, that covers all of UK.
- Near Frankfurt, Germany, that covers most of Western and some of Central Europe.
- Kyushu Island, Japan, that covers most parts of Japan and parts of Korea.

The radio receiver in the watch picks up the transmitted signal and it is decoded with a split-second precision, to synchronize to the accurate time. At the same time, the radio signal automatically sets the calendar function and for countries adopting daylight saving and standard time, it adjusts automatically.

Buttons



Figure 2

Replacing the Battery

The watch runs on one CR2032 battery.

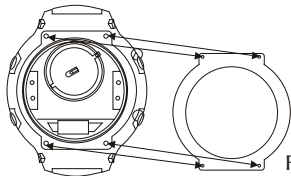


Figure 3a

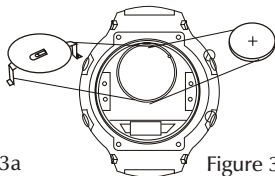


Figure 3b

1. Open the back cover of the watch. (See Figure 3a.)
2. Remove the metal plate of + polarities. (See Figure 3b.)
3. Replace with CR2032 button cell, with positive pole (+) facing out. Ensure that it is retained securely in position by the metal plate.
4. Replace the back cover.

Replacing the Battery

Notes:

- Dispose of the used batteries properly, in accordance to the environmental laws in your area.
- Press and hold the four buttons to reset the watch if it is operating in an unfavorable way or malfunctioning.

Auto Synchronization

Once the battery is installed, the receiver circuit is activated. The antenna icon on the LCD blinks. (See Figure 4.) The bars facing the antenna indicate the strength of the radio signal: no bars mean there is no signal or a very weak signal being received; one bar indicates a weak signal; 5 bars indicate the strongest signal. (See Figure 5.) Use

Auto Synchronization

the radio signal strength indicators to find a location where the reception is strong. If the watch is too close to electrical appliances, such as a TV, mobile phone or computer, they may cause undesirable signal interference. A strong signal is normally found close to the window. (See Figure 6.) In some areas where the signal is poor, you may need to position and rotate the watch until the best signal strength is obtained.



Figure 4.

Blinking antenna icon (watch attempting to synchronize).

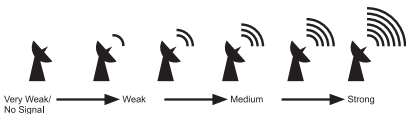


Figure 5.

Synchronization and radio signal strength indication.

Auto Synchronization

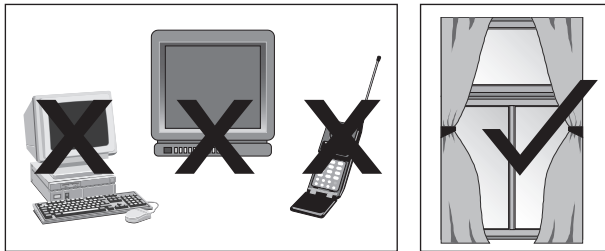


Figure 6.
How to position the watch
for the best signal reception.

Auto Synchronization

Once you have found the optimal position, leave the watch still so that it can receive a clear signal. It normally takes 3 to 10 minutes to synchronize. Once it is successful, the watch displays extremely accurate time and the correct date. A successfully synchronized watch features a non-blinking antenna icon and a radiating beacon. (See Figure 7.) The synchronized watch attempts to refresh itself with the radio time signal at least once a day. If it fails for more than 3 days, the antenna icon disappears. The watch still functions as a quartz watch until it can be refreshed again.

Auto Synchronization

Radiating
Beacon
Symbol



The watch is a radio device and, like a mobile phone or the radio, in certain locations and times of day, it may not pick up a strong enough signal to synchronize. If the watch fails to synchronize in the first attempt, it reattempts every 2 hours for the first 3 days. In most cases, the watch syn-

Auto Synchronization

chronizes overnight as the radio signal is the strongest in the early morning. You can leave the watch to synchronize at a later time or you can set the watch manually. As noted below, a manually set watch still attempts to synchronize itself automatically every 2 hours for the first 3 days.

Note: Regarding forced synchronization and halting of synchronization, if you want the watch to attempt synchronization, press and hold the **MODE** button. This activates the synchronization process. If the watch is in synchronization mode, then press and hold **MODE** button to halt synchronization.

Reading Other Data or Setting the Watch

The watch normally displays the time and calendar (month, day) continuously. From this display mode, repeatedly pushing **MODE** button shows the following data:

Mode A = Stopwatch Display

Mode B = Countdown Display

Mode C = Alarm 1

Mode D = Alarm 2

Mode E = Country Selection

Mode F = Offset Display

Reading Other Data or Setting the Watch

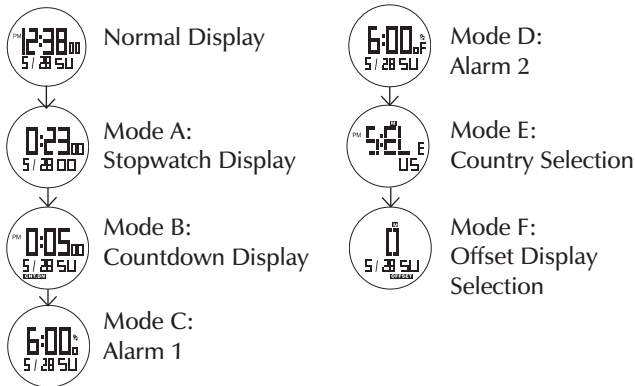


Figure 7

Reading Other Data or Setting the Watch

After releasing the **MODE** button, the display returns to normal display in 8 seconds (when in Modes C, D, E or F). However, if you press and hold the **SET/LIGHT** button for 2 seconds in normal display or when in Modes B, C, D, E or F, the watch enters into Setting mode for that particular mode. To set, press the **UP** or **DOWN** button. The blinking digits or icons indicate the values to be adjusted.

Manual Setting

If necessary, or when you travel to a place not served by one of the 4 transmitters, the watch can be set manually. Once it is manually set, the watch attempts to synchronize. If all attempts fail, the receiver circuit enters Sleep

Manual Setting

mode to conserve power. The watch functions as a quartz watch until it is forced to attempt synchronization again.

Setting the Time and Calendar

In normal display mode (Time and Calendar Display), press and hold **SET/LIGHT** button to enter the Time and Calendar setting modes. Press **UP** or **DOWN** button to select 12/24-hour format. With each press of the **SET/LIGHT** button after entering the 12/24-hour format, the setting shifts to hour, minute, seconds (only to synchronize with 00 seconds), year, month and day setting modes.

Manual Setting

Stopwatch Function

See Figure 7, Mode A.

1. Press the **UP** button to begin the stopwatch function and to halt the synchronization, if the watch is in synchronization.
2. To stop the timer, press the **UP** or **DOWN** button.
3. When the timer has stopped, press the **DOWN** button to reset the timer to 0:00:00.

Countdown Function

Your watch has a built-in countdown function: 23 hours, 59 minutes and 59 seconds. While you are in Mode A, press the **MODE** button to enter Mode B. (See Figure 7.)

Manual Setting


Press and hold the **SET/LIGHT** button for 2 seconds to set the target hour, minute and seconds. When hour, minute and seconds are flashing, press **UP** or **DOWN** button to adjust. When finished, press **UP** button and the watch starts the countdown. Press **UP** button again to stop the countdown and **DOWN** button to reset the countdown. When the countdown has reached to the target time, the alarm sounds. To stop the alarm, press any button.

Note: The default is at 5 minutes.


Setting Alarm 1

When you are in Mode B, press the **MODE** button to enter Mode C: Alarm 1. (See Figure 7.) When entering the alarm mode, the on/off flashes. Press **UP** or **DOWN** button to

Manual Setting

turn the alarm on or off. Next, press and hold the **SET/LIGHT** button to enter the alarm hour. Press again to enter the minutes setting. If you turn on the alarm,  appears in the normal display. (In 12-hour format, note PM sign.)

Setting Alarm 2

When you are in Mode C, press the **MODE** button to enter Mode D: Alarm 2. (See Figure 7.) Setting this mode is the same as Alarm 1. If you turn on the alarm,  appears in the normal display. (In 12-hour format, note PM sign.)

Selecting the Country

When you are in Mode D, press the **MODE** button to enter Mode E. (See Figure 7.) Press and hold the **SET/LIGHT** button and the country (US, EU, En or JP) flashes. Press **UP**

Manual Setting

or **DOWN** button to select the country. To confirm, press the **SET/LIGHT** button again. When you are in US mode, press **UP** or **DOWN** button to select the right time zone (Pacific, Mountain, Eastern or Central) once the country is selected.

Note: The watch can be forced to attempt synchronization in normal display mode. Press and hold the **MODE** button and it begins synchronization. Synchronization may not be immediate, so allow some time for the watch to synchronize.

Setting the Offset

While you are in Mode E, press the **MODE** button to enter Mode F. (See Figure 7.) Press and hold the **SET/LIGHT** button. 00 flashes, then press **UP** or **DOWN** button to select

Manual Setting

the offset time. Press **SET/LIGHT** button when finished.

Daylight Saving/Standard Time (Not available for Japan)

When in the normal display mode, press and hold the **UP** or **DOWN** button to change the time manually from Standard to Daylight Saving Time or vice-versa. When the **UP** or **DOWN** button is pressed, the watch overrides the built-in auto Daylight Saving/Standard Time function. At this point, the manual adjustment can be made.

Notes:

- Daylight Saving Time (DST) may vary from year to year in some cities. If the built-in auto Daylight Saving Time is not up to date, press and hold the **UP** or **DOWN** button to correct it.

Manual Setting

- Once you have set DST/Standard Time manually, the watch will not set the Daylight Saving Time according to the RCC signal. Your manual setting overrides the signal reception. You have to manually set it when Daylight Saving Time ends as well. Or you can press and hold **SET/LIGHT+MODE+UP+DOWN** buttons to reset the watch to the manufacturer default setting.

Backlight

To illuminate the digits on the LCD, press the **SET/LIGHT** button.

Warranty

What Is Covered

This warranty covers any defects in materials or workmanship, with the exceptions stated below.

How Long Coverage Lasts

This warranty runs for 90 days from the date of original purchase.

What Is Not Covered

This warranty does not cover damage caused by misuse or use other than as intended and described in the product instruction manual, or loss or damage to batteries or removable parts.

What The Sharper Image Will Do

The Sharper Image warrants this product against defects in materials and workmanship. When repair is not practical, The Sharper Image will have the option to replace the defective product with one that is the same or has similar functionality.

Warranty

How to Obtain Service

Return the product and receipt, along with a brief explanation of the problem, to:

T.S.I. - Returns Department
2901 West 60th Street
Little Rock, AR 72209

If you have questions please feel free to contact our customer service representatives at 1-800-344-5555 or by email at care@web.sharperimage.com.

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

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