



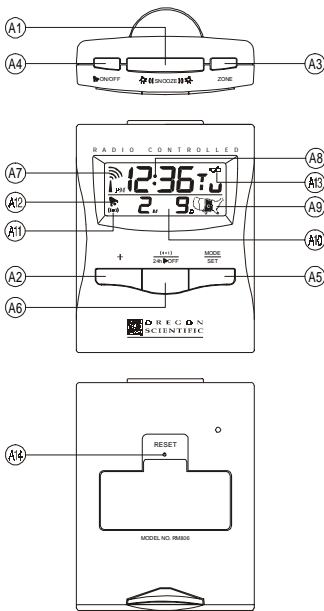
**OREGON  
SCIENTIFIC**

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

# RADIO CONTROLLED CLOCK WITH *Higlo™* BACKLIGHT

**MODEL NO.: RM806**

## USER'S MANUAL



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## Dear RM806- Radio Controlled Travel Alarm Clock Owner:

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Congratulations on your purchase OREGON SCIENTIFIC's radio controlled auto-setting always-accurate alarm clock! The RM806 is a clock that automatically sets the time and date from signals broadcast by the US Atomic Clock, one of the world's most accurate timekeepers. This extraordinary timepiece, located outside Boulder, Colorado, is operated by the U.S. Department of Commerce's National Institute of Standards and Technology. Your RM806 Clock automatically activates its receiver immediately upon battery insertion and then six times every 24 hours and make any necessary adjustments in its time display. The clock not only sets itself to synchronize its digital time and date with the atomic clock's signals, but it also automatically adjusts for daylight savings time!



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## Features

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- Automatic setting of clock by radio signal from the US Atomic Clock
- Time display with Hour, Minutes, Seconds and Date
- Day of the week displayed in one of three languages (English, French or Spanish)
- Dramatic blue HiGlo™ electroluminescent backlight
- Alarm with eight-minute snooze
- Crescendo Alarm increases in volume and intensity
- Signal Reception Strength indicator
- U.S. Map icon shows user selected time zone
- Automatic adjustment for Daylight Savings time
- Low Battery indicator

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## Description of Function keys (Figure A)

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### **Snooze/light (Figure A.1)**

Pressing the bar on the top of The Radio Controlled Clock activates the HiGlo™ electroluminescent backlight for 5 seconds. When the alarm sounds, pressing this Snooze/Light bar also activates the eight-minute snooze function.

### **+ Advance Key (Figure A.2)**

This key is used for manually setting the time, alarm time or calendar functions. Please refer to the Manual Setting instructions in these instructions for further information.

**NOTE:** *Pressing once advance the setting by increments of 1: holding the ▲ button down for more the three seconds will accelerate the setting to rapid advance mode.*

**WARNING:** *The ▲ key also is used to reactivate the signal reception process should it become disable. Please see the Trouble Shooting section for further information.*

### **ZONE (Figure A.3)**


The Radio Controlled Clock is designed to automatically adjust the time signal to the user selected North American time zone – Pacific, Mountain, Central or Eastern. Pressing the ZONE button once advances the time zone setting (see US map

figure A.9). Once the desired time zone block is highlighted on the map, the time will automatically adjust accordingly.

**WARNING:** Do not press and hold the ZONE button for more than three seconds. Use the single press method to set the time zone. Holding the button will turn off the automatic time signal reception. Please see the Trouble Shooting section for further information.

### [ ]ON/OFF (Figure A.4)

This button turns the alarm function on and off. Touching the button one time will either turn the alarm on or off. Please refer to the Alarm Setting instructions for further information.

**NOTE:** When setting the alarm time, the alarm is automatically turned on. If the bell icon [  ] is visible, the alarm is “on”.

Touching the ON/OFF button one time will either turn the Alarm function on or off.

If you want to stop the daily alarm while leaving the pre-set time for the following day's wake-up, press the ((•)) ALARM button. Pressing the ON/OFF button to stop the wake up alarm will deactivate the alarm function.

### MODE (Figure A.5)

Press the MODE key once to switch between the display of either the Day of the Week or Seconds on the clock. Radio Controlled Clock will continue to display the selected function (Day or Seconds) until the MODE button is pressed again.

**IMPORTANT:** Holding the MODE key for more than three seconds turns on the manual mode for setting the time, date, year and language (English/French/Spanish). Please refer to this section for specific setting instructions.




### ((•)) ALARM (Figure A.6)

Press the ((•)) ALARM key once to show the alarm time.

The ((•)) icon is displayed in the lower left portion of the screen to alert you that the display is showing the time. To return to the month and date display, press the ((•)) ALARM key once. To set the alarms please refer to the section on setting the Alarm.

**NOTE:** The Radio Controlled Clock will continue to display the selected function (Alarm Time or Date) until the ((•)) ALARM button is pressed again.

## Signal Strength Indicator – Figure A.7

Indicators on the Display	Meaning
	Your last signal reception was excellent and time Synchronization with the US Atomic Clock has taken place.
	Your last signal reception was insufficient and it is recommended that you reposition the clock.
	The displayed time has been manually set and is not synchronized by the RF signal.
<b>No Indicator</b>	Your radio reception is disabled and no signal reception will be initiated unless it is enabled again.

## Time Display (Figure A.8)

The top line of the display shows the hours, minutes and seconds (AM/PM) of the clock. Pressing the MODE button once will switch the “Seconds” display to the Day of the Week. The Radio controlled Clock will continue to display the selected function (Day or Seconds) until the MODE button is pressed again.

## US MAP (Figure A.9)

This map represents the four optional time-zone setting. The darkened or filled zone block indicates the user selected time zone. NOTE: When the radio controlled Clock is receiving a signal from the US Atomic Clock; outline of this map will flash.

## Month/Date (Figure A.10)

The Second line of the display shows the Month and the Date. Pressing the ((•)) ALARM button once will switch the “month and date” to show the “alarm time”. The Alarm time is displayed in hours and minutes (AM/PM). NOTE: The Radio controlled Clock will continue to display the selected function (Month/Date or

Alarm Time) Until the ((•)) ALARM button is pressed again.

#### **((•)) Alarm Display indicator (Figure A.11)**

This ((•)) icon indicates the second line of the display is showing Alarm Time.

#### **[🔔] Alarm “ON” Indicator (Figure A.12)**

This Bell [🔔] icon indicates that the alarm function is activated.

#### **[BATT] Low Battery Indicator (Figure A.13)**

This [BATT] icon indicates that it is time to change batteries. Please refer to the Battery Replacement Section of this manual.

#### **Reset Button(Figure A.14)**

To clear all user-selected settings and to cause the settings to default to their original values, press RESET with a blunt stylus. The reset button is located under the battery compartment door.

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## **BATTERY INSTALLATION**

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Your Radio Controlled Clock is shipped with two AAA batteries. These batteries should last for approximately one year depending on the amount of your use of the HiGlo™ backlight. Open the battery compartment, door and remove the two protective plastic strips from the batteries and slide the battery compartment door back into place.



#### **Radio Controlled Clock:**

The RM806 will automatically synchronize current time and date with the signal broadcast by the US Atomic Clock when the product is in reception range of the signal.

When the unit is new and just out of the box, synchronization with the U.S. atomic clock can take upto 72 hours. The unit will receive the most dependable and interference free signal automatically between Midnight and 4 AM.

When the unit is receiving radio signal, the reception icon will start to blink. The reception icon will show either strong, weak or no signal depending on the strength of the radio signal. A complete reception generally takes about 2 to 5 minutes.

	- Strong
	- Weak
	- No signal
	- Receiving

When the reception is completed the reception icon will stop blinking. The reception icon will show  for no Reception or  for successful reception. For best signal reception, place the RM806 away from other equipment that emit RF or microwave signals such as TV's, radios, PC's or microwave ovens. Other causes for signal interference include electrical power transmission towers, steel reinforced concrete construction, and/or metal siding.

You may need to reposition the clock for maximum reception.


Radio Frequency appliances and radios, such as the Radio Controlled Alarm Clock, perform best when placed near a window.



After receiving the initial signal, updates are accomplished with greater ease. Even though there are areas that may have more difficulty in receiving a signal, the RM806 Alarm Clock contains very accurate quartz movement and will retain precise time even if a signal is missed on a rare occasion.

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## SETTING THE ALARM

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- 1) Press and hold the ((•)) 24h  OFF button for at least three seconds. The “Hour” Segment of the alarm time will begin Flashing.
- 2) While the “Hour” segment is flashing press the [+] button to set the desired hour time (please note the AM/PM designation).

- 3) When the desired hour time is reached, press the ((•)) 24h  OFF button again.
- 4) The “Minutes” segment of the alarm time will begin flashing.
- 5) While the “Minutes” segment is flashing press the [+] button to set the desired minute time.
- 6) When the desired minute time is reached press the ((•)) 24h  OFF button again to exit the alarm time set mode.





**NOTE:** *As soon as any change in the alarm time is made the alarm icon ((•)) will automatically appear indicating that the alarm is activated.*

**IMPORTANT:** *The Radio Controlled Clock will continue to display the “ALARM” time until the ((•)) 24h  OFF button is pressed once to return to the “Month/Date” display.*



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## TURNING THE ALARM ON or OFF

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To turn the alarm on or off simply press the  ON/OFF key in any mode. When the  ON/OFF button is pressed once the alarm is activated (the bell icon [] will appear on the display). The alarm is deactivated when the ON/OFF button is pressed once and the bell icon [] disappears from the display.

When the crescendo alarm sounds, it may be turned off using one of the following methods.

- 1) If the SNOOZE/LIGHT key is pressed within two minutes the Snooze is activated and the alarm will sound again in 8 minutes.
- 2) If the ((•)) 24h  OFF key is pressed, the alarm will not sound again until the next day.
- 3) If the  ON/OFF key is pressed, the alarm is deactivated and will not sound again until it is activated.

**IMPORTANT:** *If none of the above actions are taken, the alarm will automatically snooze once, sound again in 8 minutes, and will not sound again until the next day.*



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## MANUALLY SETTING: TIME, YEAR, MONTH, DATE & LANGUAGE

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**NOTE:** *It is highly unlikely you should ever have the desire (or need) to manually set the clock time, year, month or date of the Radio Controlled Clock. However, in the event this becomes necessary please review the following.*

### Setting the Time

- 1) Press and hold MODE button for at least three seconds. The “Hour” segment of the time will begin flashing.
- 2) While the “Hour” segment is flashing press the [+] button to set the desired hour time is reached hour time (Please note the AM/PM designation).
- 3) When the desired hour time is reached press the MODE button again. The “Minutes” segment of the clock time begin flashing.
- 4) While the “Minuted” segment is flashing press the [+] button to set the desired minutes time.
- 5) When the desired minutes time is reached, briefly press the MODE button five more times to exit the clock time set mode.

**IMPORTANT :** *As soon as any manual change in the clock time is mode, there is a loss of the signal strength indicator from the display.*

**NOTE :** *The next successful reception of a radio signal will override all manual settings.*

### Setting the Year Month and Date

- 1) Press and hold MODE button for at least three seconds. The “Hour” segment of the clock time will begin flashing.
- 2) Briefly press the MODE button and the “Minutes” segment will begin flashing.
- 3) Briefly press the MODE button once more. The clock time will disappear and be replaced by a flashing year (Ex. 1995). This is the year set mode.
- 4) While the “Year” segment is flashing press the [+] button to set the desired year.
- 5) When the desired year is reached briefly press the MODE button and the “Month” digit will start flashing.
- 6) Press [ + ] button until the desired month appears on the display.

- 7) Press the Mode button to confirm the "month" and the "date" digits will flash
- 8) Press [ + ] until the desired date appears on the display.
- 9) Press Mode button to confirm the "Date" and the Language display will flash".
- 10) Press [ + ] button until the desired language indicator appears on the display ("E" for English, "F" for French and "S" for Spanish).
- 11) Press MODE button one more time to exit the set mode and resume normal time keeping.

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## TROUBLE SHOOTING

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Problem	Remedy
No Display	<ul style="list-style-type: none"> <li>• Check battery compartment.</li> <li>• Confirm that batteries are of good quality, and are installed correctly</li> <li>• Be certain the plastic protective tabs have been removed.</li> </ul>
Did not receive A time signal	<ul style="list-style-type: none"> <li>• If the units are new and just out of the box ,allow 60-72 hours cycle for the clock to automatically seek a signal between midnight and 4 a.m.</li> <li>• May be caused by too much interference. Relocate the clock or the antenna to position near a window.</li> <li>• Be certain the antenna cord is fully extended and look for low battery indicator.</li> </ul>
Loss of signal	<ul style="list-style-type: none"> <li>• May be caused by interference.</li> <li>• If the problem persists, move the clock or antenna to a new location. The ExactSet™ is equipped with a high quality clock mechanism, which insures accuracy between signals.</li> </ul>
Other Problem	<ul style="list-style-type: none"> <li>• Call Oregon Scientific at 800-853-8883 or through the internet at <a href="mailto:helpme@oscientific.com">helpme@oscientific.com</a></li> </ul>

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## Technical Data

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- Integrated radio receiver for reception of time signal 10kW transmitter WWVB: at 60Khz
- Operating temperature: 35-120°F
- Typical operating time on one battery set is up to one year, subject to backlight usage
- Setting time with interference-free reception: 3-7 minutes
- Automatic signal-reception activation: six times every 24 hours
- HiGlo™ backlighting source: Electroluminescence
- Battery type: 2AAA (included)

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## NOTE ON COMPLIANCE

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operations.

**Warning:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### FCC :

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer of an experienced radio/TV technician for help.

**Company Name:** Oregon Scientific, Inc.

**Address:** 19861 SW 95th Place, Tualatin, Oregon 97062, USA

**Telephone Number:** 1-800-853-8883

**Name and model number of the product:** RADIO CONTROLLED TRAVEL CLOCK WITH Higlo BACKLIGHT

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## CUSTOMER ASSISTANCE

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Should you require assistance regarding this product and its operation, please contact our customer care department at 800-853-8883

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## WARRANTY

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This product is warranted to be free of manufacturing defects for a period of 90 days from date of retail purchase. Defective product should be directed to the place of retail purchase for exchange.

Should this not be possible, contact our customer care department for assistance and a return material authorization. No returns may be made without a return authorization. Please retain your retail receipt as you may be asked to provide a copy of it for proof of date purchased.

This warranty does not cover product subjected to abuse, misuse, accidental damage or tampering.