Radio-Controlled Projection Clock
with FM Radio
Model: RRM310P

USER MANUAL

CONTENTS

1

INTRODUCTION

Thank you for selecting the Oregon Scientific™ projection clock with FM radio.

Keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know.
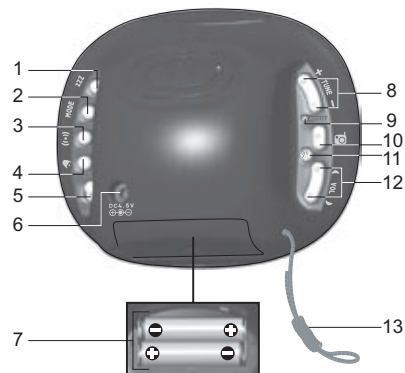
PRODUCT OVERVIEW

FRONT VIEW

1. **SNOOZE / LIGHT:** Activate 8-minute snooze function, or backlight and projector
2. **Projector**: Projects time and alarm status

BACK VIEW

1. **ZZZ** : Activate sleep function
2. **MODE**:Toggle between setting modes / change and confirm settings
3. **((•))** : Toggle between alarm and calendar display
4. **🔔** : Switch alarm on or off
5. **PROJ. ON**: Slide to ON for continuous image projection when the adapter is connected
6. **4.5V AC adapter socket**
7. **Battery compartment**: 2 x UM-4 / AAA 1.5V batteries
8. **+ TUNE —** : Toggle up or down through radio frequencies

2

9. **RESET**: Press to return all values to the default settings
10. ⏾ : Switch radio on or off
11. ⏾ : Toggle through preset radio stations
12. ❰ VOL ❱ : Increase or decrease volume
13. **FM radio antenna wire**

LCD DISPLAY
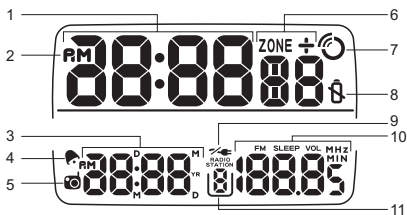
1. Time
2. 24 / 12 hr format
3. Calendar / alarm display
4. Alarm on / off
5. Radio alarm on / off
6. Offset time zone
7. Radio-controlled clock reception
8. Battery status
9. Adapter is disconnected
10. FM radio display / sleep / volume level / radio frequency
11. Radio station

GETTING STARTED

BATTERIES

Insert batteries (2 x UM-4 / AAA 1.5V batteries) before first use, matching the polarity (+ and -). Press **RESET** after each battery change.
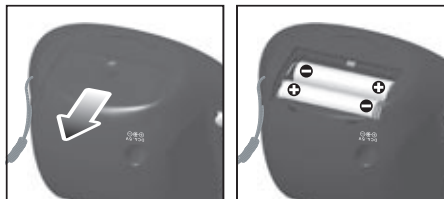
⑉ Batteries are low, or there are no batteries installed and only the adapter is connected.

NOTE
•   The batteries are for back-up use only. Please use the adapter for continuous use.
•   It is recommended that you use alkaline batteries with this product for longer performance.
•   Do not use rechargeable batteries with this product.

ADAPTER

The batteries serve as a back-up power supply. For continuous use of the projector, install the adapter at the base of the unit.

3

NOTE To help conserve energy, turn the **PROJ. ON** switch to OFF when you do not wish to use it.

CLOCK RECEPTION

This product is designed to synchronize its calendar clock automatically once it is brought within 1500km (932 miles) of a radio signal (DCF-77 generated from Frankfurt, Germany).

NOTE For best results, place the clock away from metal or electrical objects, and near a window with a clear view to the sky.

To turn the radio reception ON / OFF:
- Press ◀ VOL ▶ and hold for 2 seconds.

- ◔ flashes when it is searching for a signal. No icon appears when the radio reception is OFF.

STRONG SIGNAL	WEAK SIGNAL	NO SIGNAL
◔	◡	◡

CLOCK

Press **MODE** to toggle between:
- Clock with seconds
- Clock with day
- Clock with time zone offset

To set the clock:
1. Press and hold **MODE** for 2 seconds. The time zone offset hour digits will flash. When an offset hour has been set (e.g. +1), the time displayed will be the radio-controlled clock time plus 1 hour.
2. Press ◀ VOL ▶ to change the setting.
3. Press **MODE** to confirm the setting and move onto the next one.
4. The setting sequence is: Time zone hour offset, 12 / 24 hour format, hour, minute, year, MM / DD or DD / MM format, month, day and language for day of the week.
5. Press any key except **SNOOZE / LIGHT** to exit the setting mode.

FM RADIO

To play the radio:
1. Press ◉ to switch the radio on.
2. Press ◀ VOL ▶ to change the radio volume.
3. Press ✚ TUNE ▬ to change radio frequency, press and hold for 2 seconds to enable auto-search for an available frequency.

NOTE In order to conserve power, the FM radio only works when the adapter is plugged in.

To save a radio station:
Press and hold ⚲ while on a frequency. A total of 8 stations can be stored.

To scroll through preset stations:
Press 📡 repeatedly.

SLEEP

The radio is equipped with a countdown sleep timer that can be set to switch the radio off after up to 120 minutes.

1. Press **ZZZ** to enter sleep mode.
2. Press **ZZZ** to change the sleep time setting (120, 90, 60, 45, 30, 15, 0).
3. Press any key to exit sleep mode – the sleep timer will be automatically activated.

BACKLIGHT

Press **SNOOZE / LIGHT** to activate the backlight for 8 seconds.

ALARM

Press **((•))** to view the alarm display.

To set the buzzer or radio alarm:
1. Press and hold **((•))** for 2 seconds.
2. Use **(VOL)** to change the setting.
3. Press **((•))** to confirm the setting and move onto the next one.
4. The setting sequence is: Hour, minute, alarm type (i.e. radio alarm or buzzer alarm).
5. If radio alarm is selected, preset station and preset volume can also be altered.

6. Press **((•))** to exit alarm setting mode.

NOTE If the radio alarm time is reached when the adapter is not connected the unit will default to buzzer alarm.

To activate / deactivate the alarm:
Press 🔔 . The respective alarm icon appears when the alarm has been activated.

To silence the alarm:
• Press **SNOOZE / LIGHT** to silence it for 8 minutes. The buzzer alarm or radio alarm icon will flash to show snooze is enabled.
OR
• Press and hold **SNOOZE / LIGHT** to turn off the snooze function and reset the alarm for 24 hours time.
OR
• Press any key except **SNOOZE / LIGHT** to mute any alarm and activate it again in 24 hours.

NOTE The radio will remain on for 120 minutes if no key is pressed.

PROJECTION UNIT

The projection unit can display both time and alarm status. **To use this feature:**
• Slide the **PROJ. ON** switch to ON to activate continuous projection. However, this function will not work unless the adapter is used.

5

- Press the **SNOOZE / LIGHT** button to project the time and alarm status for 8 seconds.
- Press the **SNOOZE / LIGHT** twice to flip the projection image by 180 degrees

RESET

Insert a thin blunt instrument into the **RESET** hole to return to the default settings.

WARNINGS

This product is designed to give you years of service if handled properly. Oregon Scientific will not be responsible for any deviations in the usage of the device from those specified in the user instructions or any unapproved alterations or repairs of the product. Observe the following guidelines:

- Do not clean any part of the product with benzene, thinner or other solvent chemicals - this may cause permanent damage that is not covered by the guarantee. When necessary, clean it with a damp cloth.
- Never immerse the product in water. This can cause electrical shock and damage the product.
- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- Do not tamper with the internal components.
- Do not mix new and old batteries or batteries of different types.
- Do not use rechargeable batteries with this product.

- Remove the batteries if storing this product for a long period of time.
- Do not scratch the LCD display.
- Placement of this product on wood surfaces with certain types of finishes, such as clear varnish, may result in damage to the finish. Consult the furniture manufacturer's care instructions for direction as to the types of objects that may safely be placed on the wood surface. Oregon Scientific shall not be responsible for any damage to wood surfaces from contact with this product.
- Do not dispose of this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

NOTE The technical specification of this product and contents of this user manual are subject to change without notice. Images not drawn to scale.

TECHNICAL SPECIFICATIONS

TYPE	DESCRIPTION
Dimensions	
L X W X H	112 x 53 x 92 mm (4.41 x 2.08 x 3.62 inches)
Weight (without battery	130 g (0.29 lbs)

6

Radio-controlled clock

Clock Frequency System	DCF77
Synchronization	Auto or disabled
FM Band Range	87.5-108.0 MHz
Clock	HH:MM:SS HH:MM: Day of week HH:MM: Time zone hour offset
Hour Format	12hr / 24 hr format
Calendar	DD / MM or MM / DD, user selectable. Weekday language: E, D, F, I, S.
Alarm	• 2-minute alarm • 8-minute snooze
Power	2 x UM-4 / AAA 1.5V batteries or 4.5V AC adapter

NOTE It is recommended that you use alkaline batteries with this product for longer performance.

NOTE Design and specifications are subject to change without notice.

NOTICES

STATEMENT OF RESPONSIBILITY

Oregon Scientific will not be held liable for any bodily injury, death, property damages, or any other claims of whatever nature resulting from the misuse or negligence of the product, whether intentional or unintentional.

Oregon Scientific will not be responsible for any deviations in the usage of the device from those specified in the user instructions or any unapproved alternations or repairs of the product.

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We hope you will find all the information you need on our website, however if you're in the US and would like to contact the Oregon Scientific Customer Care department directly, please visit:
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Call 1-800-853-8883.

For international inquiries, please visit:
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7

EU-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this Radio-Controlled Projection Clock with FM Radio (Model RRM310P) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.

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and Norway N

8

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