

## Explore Scientific RPW3009CM3000

# Explore Scientific RPW3009 Projection Clock User Manual

Model: RPW3009CM3000

## 1. INTRODUCTION

Thank you for purchasing the Explore Scientific RPW3009 Projection Clock. This device offers the convenience of projecting the time and outdoor temperature onto your ceiling or wall. It features a clear display for time, date, indoor temperature, and weather forecasts, all radio-controlled for accuracy. An external sensor provides outdoor temperature readings, and a built-in USB port allows for convenient phone charging. Please read this manual carefully to understand all features and ensure proper operation.

## 2. SAFETY INFORMATION

- Do not expose the unit to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the unit to strong impacts.
- Do not disassemble or modify the unit. This will void the warranty.
- Use only the specified power adapter (if applicable) and batteries.
- Keep out of reach of children.
- Dispose of used batteries responsibly according to local regulations.

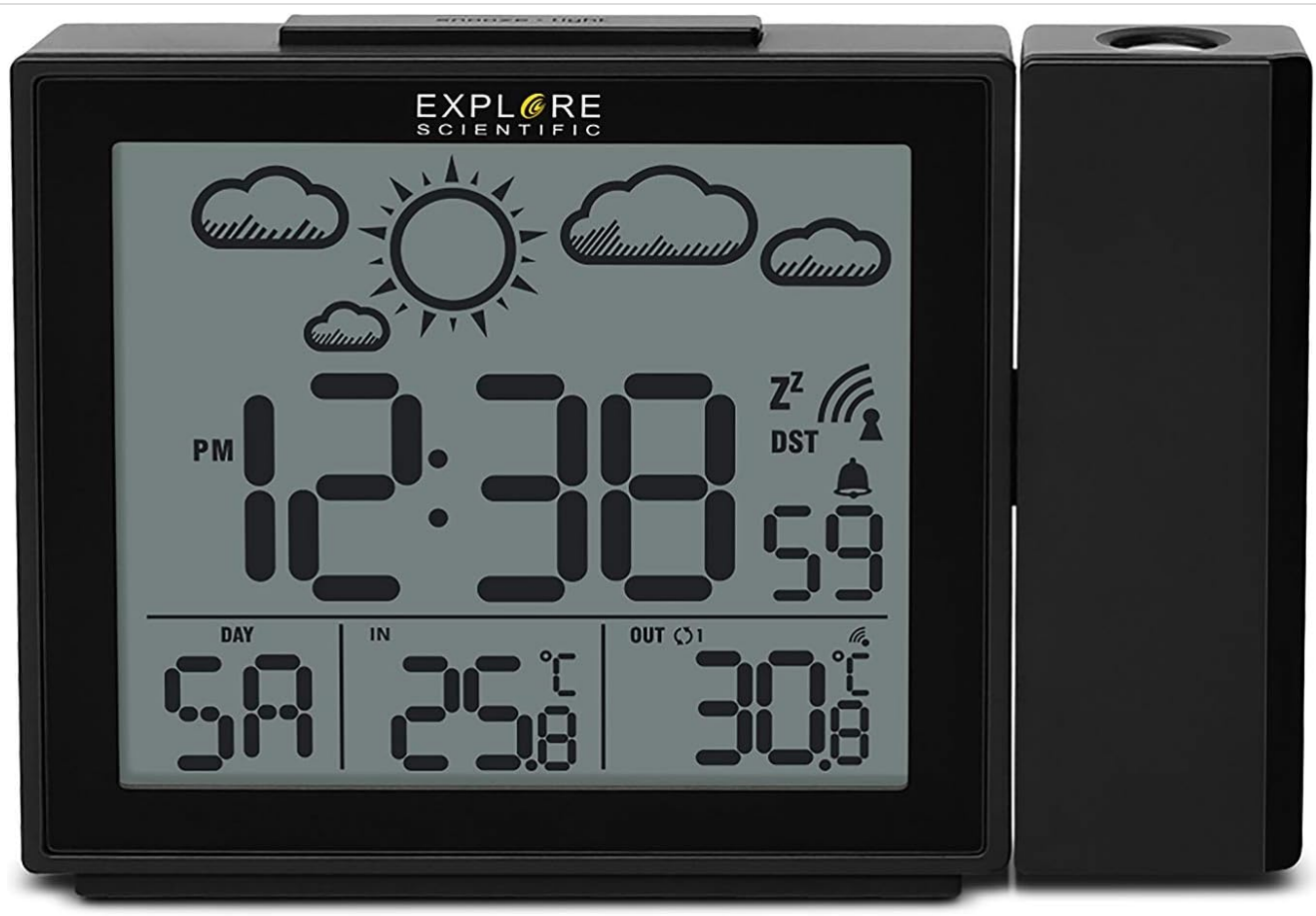
## 3. PACKAGE CONTENTS

Please check that all items are present in your package:

- Explore Scientific RPW3009 Projection Clock Unit
- Outdoor Temperature Sensor
- Power Adapter (for main unit)
- 2 x AAA Batteries (for main unit)
- User Manual (this document)

## 4. PRODUCT OVERVIEW

### 4.1 Main Unit Front View



**Figure 4.1:** Front display of the projection clock, showing the digital time, day of the week, indoor temperature, outdoor temperature, and weather forecast icons (sun, clouds).

## 4.2 Main Unit Rear View and Controls



**Figure 4.2:** Rear panel of the clock, featuring buttons for 'alarm set', 'mode', '+', '-', 'sensor', and a USB charging port. The projection lens is visible on the left side.

#### 4.3 Projection Feature in Use



**Figure 4.3:** The clock projecting the time and outdoor temperature onto a surface, demonstrating the projection capability.

## 5. SETUP

### 5.1 Powering On the Main Unit

The main unit can be powered by the included AC adapter or by batteries. For continuous projection and USB charging, the AC adapter must be used.

1. **Battery Installation:** Open the battery compartment cover on the back of the main unit. Insert the 2 x AAA batteries (included), observing the correct polarity (+/-). Close the cover. These batteries serve as a backup in case of power loss.
2. **AC Adapter Connection:** Plug the small end of the AC adapter into the DC IN port on the back of the unit and the other end into a standard wall outlet.

### 5.2 Outdoor Sensor Setup

The outdoor sensor transmits temperature data to the main unit and has its own display for quick readings.

1. Open the battery compartment of the outdoor sensor. Insert 2 x AAA batteries (not included for sensor, typically required), observing the correct polarity (+/-). Close the cover.
2. Place the outdoor sensor in a shaded, dry location away from direct sunlight and rain to ensure accurate readings. Ensure it is within effective transmission range of the main unit.
3. The main unit will automatically attempt to connect with the outdoor sensor. The outdoor temperature will appear on the display once connected. If connection fails, press the 'SENSOR' button on the main unit to initiate a manual search.

### 5.3 Initial Time and Date Synchronization (Radio Control)

The clock is radio-controlled (DCF) and will automatically synchronize its time and date with the atomic clock signal.

- Upon initial power-up, the clock will automatically begin searching for the DCF signal. A radio tower icon will flash on the display.
- This process may take several minutes to a few hours, depending on your location and signal strength. For best reception, place the unit near a window and away from electronic interference.
- Once synchronized, the radio tower icon will become solid, and the time and date will be set automatically.
- During synchronization, the projector may temporarily turn off.

## 6. OPERATION

### 6.1 Manual Time and Date Setting

If the radio-controlled time synchronization is not successful or you wish to set the time manually:

1. Press and hold the 'MODE' button for 3 seconds to enter time setting mode. The hour digits will flash.
2. Use the '+' or '-' buttons to adjust the hour.
3. Press 'MODE' again to move to minutes, then year, month, and day. Adjust each setting using '+' or '-'.
4. Press 'MODE' to confirm each setting and exit the setting mode.
5. You can also select 12/24 hour format during this process.

### 6.2 Alarm Settings

The clock features a dual alarm function.

1. Press the 'ALARM SET' button once to view Alarm 1 time. Press again for Alarm 2.
2. To set an alarm, press and hold 'ALARM SET' for 3 seconds. The alarm hour will flash.

3. Use '+' or '-' to adjust the hour, then press 'ALARM SET' to move to minutes.
4. Press 'ALARM SET' to confirm.
5. To activate/deactivate an alarm, press 'ALARM SET' repeatedly until the alarm icon (bell) appears or disappears for the desired alarm.

### 6.3 Snooze Function

When an alarm sounds, press the 'SNOOZE/LIGHT' button on top of the unit to activate the snooze function. The alarm will temporarily stop and sound again after approximately 5-10 minutes.

### 6.4 Projection Function

The clock can project the time and outdoor temperature onto a wall or ceiling.

- **Activating Projection:** The projection is continuous when the unit is powered by the AC adapter. If using batteries, press the 'SNOOZE/LIGHT' button to activate projection for a few seconds.
- **Adjusting Projection Angle:** Rotate the projection arm on the side of the unit to adjust the angle of the projected image. The projection can be flipped 180 degrees.
- **Focus Adjustment:** Use the focus wheel located near the projection lens to sharpen the projected image.

### 6.5 Weather Forecast Display

The clock displays weather forecast icons based on atmospheric pressure changes.

- The display shows icons such as sunny, partly cloudy, cloudy, rainy, etc.
- These forecasts are predictions and may not always be 100% accurate.

### 6.6 USB Charging Port

A USB port is located on the back of the unit for charging external devices like smartphones.

- Connect your device's USB charging cable to the USB port on the clock.
- Ensure the clock is connected to the AC adapter for stable charging.

## 7. MAINTENANCE

- Clean the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the projection lens is clean for clear projection.
- If the unit will not be used for an extended period, remove the batteries to prevent leakage.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Unit not powering on	Batteries are dead or incorrectly inserted; AC adapter not connected properly.	Replace batteries, check polarity. Ensure AC adapter is securely plugged in.
Outdoor temperature not displayed	Outdoor sensor batteries are dead; sensor out of range; interference.	Replace sensor batteries. Move sensor closer to the main unit. Press 'SENSOR' button to re-establish connection.

Problem	Possible Cause	Solution
Time not synchronizing (DCF)	Weak signal; interference; unit not in optimal position.	Move unit closer to a window. Avoid placing near other electronics. Allow more time for synchronization. Set time manually if necessary.
Projection is blurry or dim	Focus not adjusted; unit too far from projection surface; low light conditions required.	Adjust the focus wheel. Move the unit closer to the projection surface. Ensure the room is dark enough for clear projection.
USB charging not working	Clock is battery powered; cable issue; device not compatible.	Ensure the clock is connected to the AC adapter. Try a different USB cable or device.

## 9. SPECIFICATIONS

**Model:** RPW3009CM3000

**Brand:** Explore Scientific

**Color:** Black

**Material:** Plastic

**Dimensions (L x W x H):** 10.6 x 15.6 x 3.8 cm (4.17 x 6.14 x 1.5 inches)

**Weight:** 100 grams (0.22 lbs)

**Display Type:** Digital

**Power Source:** Main Unit: AC Adapter & 2 x AAA batteries (included for backup). Outdoor Sensor: 2 x AAA batteries (not included).

**Special Features:** Snooze, Temperature display (Indoor/Outdoor), Projector clock (180° flip), Radio-controlled time (DCF), Dual Alarm, USB Charging Port, Low battery indicator.

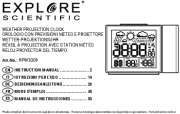
## 10. WARRANTY AND SUPPORT


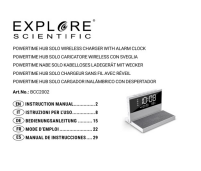

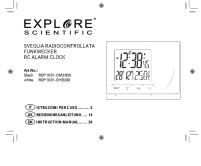
For warranty information and technical support, please refer to the warranty card included with your product or visit the official Explore Scientific website. Keep your purchase receipt as proof of purchase.

**Online Support:** [www.explorescientific.com](http://www.explorescientific.com)

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## Related Documents - RPW3009CM3000

	<p><a href="#">Explore Scientific RPW3009 Weather Projection Clock Instruction Manual</a></p> <p>User manual for the Explore Scientific RPW3009 Weather Projection Clock, detailing setup, operation, features, and specifications.</p>
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	<p><a href="#">Explore Scientific RDP3007-CM3000: Manuale d'uso per sveglia radiocontrollata con proiezione</a></p> <p>Guida completa al manuale d'istruzioni per la sveglia radiocontrollata Explore Scientific RDP3007-CM3000. Scopri come impostare ora, data, sveglia, utilizzare la proiezione e le altre funzioni.</p>
	<p><a href="#">Explore Scientific PowerTime Hub Solo Wireless Charger with Alarm Clock BCC2002 User Manual</a></p> <p>User manual for the Explore Scientific PowerTime Hub Solo Wireless Charger with Alarm Clock (Model BCC2002). Features include wireless charging, alarm clock, night light, temperature display, and safety information.</p>
	<p><a href="#">Explore Scientific RDC8002 Radio Controlled Wall Clock with Weather Forecast User Manual</a></p> <p>User manual for the Explore Scientific RDC8002 radio controlled wall clock. Learn about setup, features like weather forecasting, time synchronization, and product specifications.</p>
	<p><a href="#">Manuale di Istruzioni Explore Scientific RPW3008: Sveglia Radiocontrollata e Stazione Meteo</a></p> <p>Guida completa per la sveglia radiocontrollata Explore Scientific RPW3008. Scopri le funzioni di ora radiocontrollata, sveglia, previsioni meteo, temperatura interna/esterna e proiezione.</p>
	<p><a href="#">Explore Scientific RDP1001 RC Alarm Clock with Projection &amp; Temperature - User Manual</a></p> <p>Comprehensive user manual for the Explore Scientific RDP1001 RC Alarm Clock. Learn how to set time, alarms, use projection, understand specifications, and safety information.</p>