

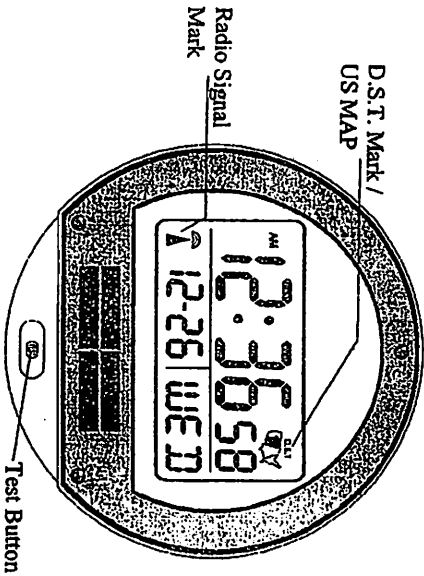
## CW15U Solar Power Radio Controlled Wall Clock

The unit is designed to use solar power for full operation. Integrated with the most advanced radio controlled time technology with automatic summer time adjustment, minimal attention of the unit is needed to keep the most accurate time.

The unit works on receiving the time radio signal generated by the US Atomic Clock, which is located in Colorado. (The Atomic Clock is operated by the US Department of Commerce's National Institute of Standards and Technology.) To enhance good reception, avoid placing the unit near television sets, metal surfaces, computers or electric devices as these equipment will interfere the reception of radio signal.

### Features:

- Atomic clock function with automatic daylight saving time / standard time adjustment.
- Solar power for full operation. No external battery needed.
- Jumbo display with maximum digit height 47mm.
- Display time with running second / calendar with month, date and day-of-week.
- Digital map showing the current time zone selected, for easy recognition.
- 12/24HR display format user selectable.
- POWER-SAVE mechanism for minimal power consumption in dark.
- Hanging on wall or stand on the desk top (with built-in easel stand).



**Starting up the unit / Receiving the time radio signal**  
To initiate the unit, place the POWER ON/OFF SWITCH to "ON" position. If there is sufficient light, the display will first show a full segment and then time and calendar are displayed.

The unit will search for time radio signals automatically when it is powered on. The radio signal mark on the left of the display (↑) will start pulsing to show the receiving status. If time signal is received, synchronization will take 3-15 minutes and the unit will show the received time. The radio signal mark will show three solid curves (pulsing stopped) to indicate that reception is successful.

**ATTENTION:** During daytime, there may be too much external interference that makes reception failed. Under such situation, please set the time manually because:

The unit has an automatic process to start reception, when the clock is showing time between 2-6am. At midnight, interference dropped to a minimum level and makes it a perfect environment for time radio signal reception. If the time of the clock is not set manually when it failed reception at daytime at the first time initiation, then the automatic process may start in the daytime everyday (not during midnight) and eventually keep the unit not receiving the signal.

### Selecting the appropriate time zone

Please select the appropriate time zone before radio signal reception start or after reception is completed. The top right hand corner of the display has a small digital map to represent the four time zones in US.

To set the time zone, place the TIME/CALENDAR SWITCH to "TIME" position and press SET BUTTON once. The digital map will flash. Set to PACIFIC / MOUNTAIN / CENTRAL / EASTERN TIME by pushing the ▲ (UP) or ▼ (DOWN) BUTTON. Please refer to the appendix for the time zone setting of the various areas in US. After setting, press SET BUTTON five times to end the setting mode.

### IMPORTANT NOTES

1. If the ▲ or ▼ BUTTON is pressed during radio signal reception to set hour / minute / second, reception will be terminated immediately.
2. To re-start the signal reception manually, press the TEST BUTTON once.

### Setting the time and calendar manually

Since the unit works on receiving the time radio signal, there may be locations that the signal is weak and cannot be properly received. Under such circumstance, the radio signal mark will show "A". Try to rotate the unit or place it in other location to achieve better reception and re-start reception by pressing the TEST BUTTON. If finally radio signal cannot be received, time and calendar should be set manually.

To set time, place the TIME/CALENDAR SWITCH to "TIME" position. Press SET BUTTON once. It will be in time zone setting mode and the digital map will flash. Press the ▲ or ▼ BUTTON to set. Press SET BUTTON once and it will be in 12/24HR display format setting mode. Press the ▲ or ▼ BUTTON to set. Press SET BUTTON once. The hour digits will flash. Press the ▲ or ▼ BUTTON to set. Press SET BUTTON once. The minute digits will flash. Press the ▲ or ▼ BUTTON to set. Press SET BUTTON once. The second digits will flash. Press the ▲ or ▼ BUTTON to reset to zero. Press SET BUTTON once to end.

To set calendar, place the TIME/CALENDAR SWITCH to "CALENDAR" position. Press SET BUTTON once and the year digits will flash. Press the ▲ or ▼ BUTTON to set. Press SET BUTTON once. The month digits will flash. Press the ▲ or ▼ BUTTON to set. Press SET BUTTON once. The date digits will flash. Press the ▲ or ▼ BUTTON to set. Press SET BUTTON once to end. The day-of-week will be adjusted automatically.

Note: during setting, press and hold the ▲ / ▼ BUTTON for fast advance.

### Daylight saving time

The unit is equipped with automatic daylight saving time/standard time adjustment when the time signal is received. When time is changed to daylight saving time, the D.S.T. mark will be shown. To manually change to daylight saving time or standard time, please press the D.S.T. BUTTON.

### POWER-SAVE

The unit is equipped with POWER-SAVE mechanism to minimize power consumption in dark. When the unit is placed in dark, the time and calendar display will be blanked automatically and only the radio signal mark is shown. The internal clock is still running to keep the time accurate. When light intensity resume normal, time and calendar will be shown again.

### ATTENTION:

There will be certain places (especially near the eastern coast) that the radio signal is too weak to be received. Also, during daytime, there may be too much interference that makes reception failed. Under both circumstances, please set the time manually.

The unit has an automatic process to start reception, when the clock is showing time between 2-6am. At midnight, interference dropped to a minimum level and makes it a perfect environment for time radio signal reception. If the time of the unit is not set manually when it failed reception at daytime, then the automatic process may start in the daytime everyday (not during midnight) and eventually keep the unit not receiving the signal.

**APPENDIX: TIME ZONE TABLE**

Please set the Time Zone accordingly.



**Pacific (Time Zone : GMT-8):**

Major Cities	State	Major Cities	State
Las Vegas	Nevada	Reno	Nevada
Lewiston	Idaho	San Diego	California
Los Angeles	California	San Francisco	California
Portland	Oregon	Seattle	Washington

**Mountain (Time Zone : GMT-7):**

Major Cities	State	Major Cities	State
Albuquerque	New Mexico	Phoenix	Arizona
Billings	Idaho	Rapid City	S. Dakota
Boise	Idaho	Salt Lake City	Utah
Casper	Wyoming	Santa Fe	New Mexico
Denver	Colorado	Scottsbluff	Nebraska
El Paso	Texas	St. George	Utah
Helena	Idaho	Tucson	Arizona
Idaho Falls	Idaho	Yuma	Arizona
Las Cruces	New Mexico		

**Central (Time Zone : GMT-6):**

Major Cities	State	Major Cities	State
Amarillo	Texas	Memphis	Tennessee
Baton Rouge	Louisiana	Minneapolis	Minnesota
Birmingham	Alabama	Mobile	Alabama
Bismarck	N. Dakota	Nashville	Tennessee
Brownsville	Texas	New Orleans	Louisiana
Chicago	Illinois	Oklahoma City	Oklahoma
Dallas	Texas	Omaha	Nebraska
Des Moines	Iowa	Pensacola	Florida
Dodge City	Kansas	Pierre	S. Dakota
Houston	Texas	San Antonio	Texas
International Falls	Minnesota	St. Louis	Missouri
Jackson	Mississippi	St. Paul	Minnesota
Kansas City	Missouri	Topeka	Kansas
Little Rock	Arkansas		

**Eastern (Time Zone : GMT-5):**

Major Cities	State	Major Cities	State
Atlanta	Georgia	Manchester	New Hampshire
Atlantic City	Delaware	Miami	Florida
Baltimore	Maryland	Montpelier	Vermont
Boston	Massachusetts	New York	New York
Buffalo	New York	Norfolk	Virginia
Charlotte	North Carolina	Philadelphia	Pennsylvania
Cincinnati	Ohio	Pittsburgh	Pennsylvania
Cleveland	Ohio	Portland	Maine
Columbus	Ohio	Providence	Rhode Island
Detroit	Michigan	Raleigh	North Carolina
Hartford	Connecticut	Richmond	Virginia
Indianapolis	Indiana	Tallahassee	Florida
Jacksonville	Florida	Tampa	Florida
Johnson City	Tennessee	Washington	Maryland
Louisville	Kentucky		

Notes: Please notice that some states have crossed over the boundary of 2 time zones.