LENMAR®

R2G802U

R2G™
READY TO GO

2 Hr Charger With USB Power

PLEASE READ THE INFORMATION AND FOLLOW ALL INSTRUCTIONS THOROUGHLY BEFORE USING THIS PRODUCT.

Introduction
Thank you for purchasing the R2G802 2 Hour Charger. Read the instruction manual thoroughly before use and keep the manual for later reference. It contains important operating instructions for your R2G Rechargeable Battery System. The R2G802 is a combination of Travel Alarm Clock, 2 hour microprocessor controlled charger for 1 to 4 AA/AAA NiMH batteries, Thermometer, and USB PowerPort for charging your cell phones, MP3 players or any other device that accepts power from a USB port. All the functions are displayed clearly on a large backlit LCD Display. The charger can be powered 3 ways and includes a high efficiency "switching" type power supply will adjust automatically to any voltage from 100 – 240VAC, for international use. A car-cord for using the charger in the car and a USB cable for powering the charger from your computer are also included.

Before Use
To activate the clock and thermometer functions, pull out the tab from the side of the casing at the access cover to the clock battery on the bottom of the unit. The clock portion of the LCD display will turn on and you will hear alarm music for 10 seconds. The Clock / Alarm is now ready for use and should be set to the proper time / date. If the LCD display get dim or the sound of the alarm tone become weak, replace the clock battery with another new "CR-2025" type 3V Lithium battery which is located on the bottom side of the charger base.

Caution:
- Batteries are partially charged as shipped. Must be charged prior to first use for full capacity.
- Charge **only** NiMH type batteries on this charger.
- **Do Not** mix AA and AAA or different capacity batteries together when charging
- Use only R2G, NoMEM PRO or other proper NiMH compatible charger to recharge the batteries included.
- Batteries may leak or explode causing personal injury if inserted improperly, disposed of in fire, mixed with other battery types, or short circuited.

1.

LCD Display Legend

Fig. 1

Getting Ready
Choose the adapter plate for the type of battery you will be charging. Each of the adapter plates is labeled as to the batteries it can work with. If the charger base does not already have the adapter plate you want attached, you will need to remove the adapter plate first by pushing down on the plate and sliding it to the rear of the charger base (away from the LED indicators). Then, attach the selected adapter plate to the charger unit by aligning the arrows on the sides of the adapter plates and the charger base as shown. While pressing down lightly on the adapter plate, slide the plate toward the front of the charger base until it locks.

Charging Instructions
1. Choose the source of power for the charger unit. You can use the AC adapter which is international capable accepting 100-240VAC (plug adapter may be required in other countries, not included), the DC car cord while on the move or plugged into a USB port on your computer (charge times are increased when USB power is used). Simply plug the desired power cable into the side of the charger unit and the other end into the appropriate power source.

2. Insert 1 to 4 pieces of AA or AAA rechargeable Ni-MH batteries into any open battery location observing the proper battery polarity to the marks in the battery compartment. Do not mix AA and AAA batteries while charging. The Blue backlight will light up for around 10 sec once the batteries inserted correctly. For charging AAA batteries, pull down the adjustable battery contact plate before inserting the AAA batteries into the compartment. The charger automatically adjusts the charging current depending on the size of the battery being charged.

3. The LCD will indicate the proper charging and the word "Charge" will be shown to the left of the battery symbols that indicate each battery's charge progress. After the batteries are fully charged, the wording "FULL" will indicate on the LCD screen to indicate the trickle charge and the charged batteries are ready for use. Once charge is complete, remove batteries and unplug the charger as soon as it is practical. Do not leave batteries in charger for extended periods of time (more than 1-2 days) or when the charger is not plugged in. Unplug the charger when not in use.

4. Begin again at Step-1 to charge the next set of batteries.

2.

Bad Cell Detection
When charge process is started, the charger detects the health status of each of the cells in the battery compartment. If any batteries are unsuitable for charging, i.e. short circuit or reversed polarity, the word "BAD" will indicate on the LCD screen and "battery" icon will flash.
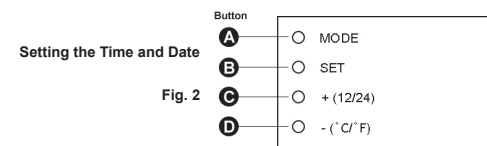
USB Charge Port Operation
When using the USB PowerPort on this charger, the AA/AAA charger function has priority. The USB PowerPort will not be available while batteries are installed and charging. Once the AA/AAA batteries have completed their charge, the USB port will be turned on automatically. The "USB symbol" will be shown on the LCD screen to indicate the USB socket is ready for use.
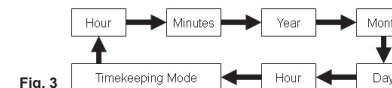
Note: Make sure the maximum loading is not exceeding 500mA for the USB socket. Do not attempt to overload the USB port or damage to the charger or USB device may result.

Clock / Alarm / Day-Date operation
The following shows which buttons on the setting panel you need to press to navigate between modes. The 2 feet on the bottom rear of the chassis act as switches to activate the blue backlight on the LCD display. In any mode, just to hit the top of the unit lightly and the black light will light on for about 10 seconds. The backlight will only operate while the unit is plugged into power using any of the supplied power adapters.

Setting the Time and Date

Fig. 2

In the regular Time mode, press the **B** button once and the "Time" icon will starts to flash on the LCD screen along with the item to be changed, which indicates Time Setting mode. Use **C** and **D** buttons to change the value of the flashing item. Once the flashing item is set to what you want, press **B** to select the next setting and change as listed above. The "Year" can be set in the range of 2000 to 2099. The day of the week is calculated automatically according with the date you set. Once all the items are set, press the **A** button to exit the setting mode (set mode will automatically if there is no input for 1 minute). The following figure shows the order of items during the setting process.

Fig. 3

12/24 Hour Mode:
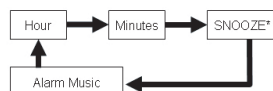In the regular Time mode, pressing the **C** button will toggle between 12-hour and 24-hour mode.

3.

Setting the Alarm

In the regular Time mode, press the **A** button to enter the Alarm mode. The "ALARM" icon will appear on the LCD in this mode. Pressing the **B** button will start the Alarm icon flashing along with the item to be set. Use the **C** and **D** buttons to change the item to the setting you want. When you are done setting each item, press the **B** button to move to the next item. You can set the hour and minute you want the alarm to sound, the length of time delay for the "Snooze" setting and select the alarm tone to sound. The following figure shows the order of items during the Alarm setting process. The "SNOOZE" can be set in the range of 1 to 60 minutes and there are 8 different kinds of alarm tones for your choice. Press **C** and **D** to change the setting you want. Pressing the **A** button will exit the setting mode (set mode will automatically if there is no input for 1 minute). The following figure shows the order of items during the Alarm setting process.

Turning on /off Alarm and Snooze Mode

From the regular Time mode, press the **A** button to enter the Alarm mode. Once in the Alarm Mode; use the **C** button to cycle through the 3 Alarm modes shown below depending on the alarm function wanted.

When an alarm is turned on, the alarm tone sounds for about 1 minute when the alarm time is reached. If "SNOOZE" mode is turned on, the alarm tone will sounds 2 times for about 1 minute when the snooze is reached. You can stop the alarm sound by pressing the **B** button.

- Alarm mode – The alarm will sound for about 1 minute. While the alarm is sounding it can be silenced by pressing the **B** button.
- Alarm/Snooze mode – the alarm will sound for about 1 minute. If the alarm is not silenced early by pressing the **B** button or if the **A** button is pressed while the alarm is sounding, the alarm goes into Snooze mode and will sound again after the time entered in the Snooze setting has elapsed.

Thermometer

This charger uses a temperature senor to measure temperature. Temperature is displayed in units of 0.1˚C (or 0.1˚F) and displayed in the range from 0 ˚C to 50˚C (32˚F to 99˚F). In the regular Time mode, you can toggle between ˚C or ˚F by pressing the **D** button.

Warning:
- Before charging, read instructions
- This charger is intended for use with Nickel-metal-hydride rechargeable batteries only. Attempting to charge other types of batteries may cause personal injury and damage to the charger.
- Do not expose charger to rain or moisture. For indoor use only.
- Disconnect from power when not in use.
- Never use any cable or power adapter not recommended by manufacturer. Otherwise, risk of fire, electric shock or injury to persons may result.
- Do not operate the charger if it has been subjected to shock or damage. Take it to a qualified serviceman for repair.
- Do not disassemble the charger. Incorrect reassembly may result in a risk of electric shock or fire.
- Unplug the charger from outlet before attempting any maintenance or cleaning.
- This AC power unit supplied is intended to be used in a vertical or floor mount position only.

Charge Times:

When using AC or Car adapter (12VDC input)

Size / Type	Charging Current	NiMH	Charging time (For 1-2 pcs)	Charging time (For 3-4 pcs)
AA	1200mA for charging 1-2 pcs batteries or 800mA for charging 3-4 pcs batteries	1800mAh	90 minutes	135 minutes
		2000mAh	100 minutes	150 minutes
		2200mAh	110 minutes	165 minutes
		2400mAh	120 minutes	180 minutes
		2600mAh	130 minutes	195 minutes
		2800mAh	140 minutes	210 minutes
AAA	600mA	700mAh	70 minutes	
		800mAh	80 minutes	
		900mAh	90 minutes	
		1000mAh	100 minutes	
		1100mAh	110 minutes	
		1200mAh	120 minutes	

When using USB power adapter (5VDC input)

Size / Type	Charging Current	NiMH	Charging time (For 1-2 pcs)	Charging time (For 3-4 pcs)
AA	560mA for charging 1-2 pcs batteries or 280mA for charging 3-4 pcs batteries	1800mAh	180 minutes	270 minutes
		2000mAh	200 minutes	300 minutes
		2200mAh	220 minutes	330 minutes
		2400mAh	240 minutes	360 minutes
		2600mAh	260 minutes	390 minutes
		2800mAh	280 minutes	420 minutes
AAA	600mA	700mAh	70 minutes	140 minutes
		800mAh	80 minutes	160 minutes
		900mAh	90 minutes	180 minutes
		1000mAh	100 minutes	200 minutes
		1100mAh	110 minutes	220 minutes
		1200mAh	120 minutes	240 minutes

*Charge time will vary depending upon the brand, capacity and condition of batteries being charged.

Charger Input:	12VDC, 600mA
Charge rate : AC or Car adapter (12VDC input)	AA size – 1-2 pcs., 1.4VDC ea. cell, 1200mA AA size – 3-4 pcs., 1.4VDC ea. cell, 800mA AAA size – 1-4 pcs., 1.4VDC ea. cell, 600mA
Charge rate : USB power adapter (5VDC input)	AA / AAA size 1-2 pcs., 1.4VDC ea. cell, 560mA AA / AAA size 3-4 pcs., 1.4VDC ea. cell, 280mA
Trickle mode :	AA 50mA ; AAA 25mA
Power Supply:	• 100-240V AC, 50-60 Hz International Compatible, (12VDC output) • Car Cord adapter (12VDC output) • USB cord adapter (5VDC output)
USB Output:	5VDC, 500mA max.
Safety Features:	-deltaV, max. time, overcharge protection, bad cell / reverse polarity / shorted cell detection.

Limited 3 Year Warranty

This limited warranty starts from the date of original purchase and expires three years thereafter. If, during this period, any part, because of manufacturing defects or workman-ship, fails to function properly under normal use it will be repaired at no charge for parts and labor or, at our option, the product will be replaced. The following is excluded: damages from delay or loss of use of equipment or damaged batteries, malfunctions resulting from misuse, tampering, unauthorized repairs, modifications or accident.

Package the unit and its accessories carefully using ample padding material to prevent damage in transit and ship it prepaid and insured to:

LENMAR ENTERPRISES, INC.
4035 Via Pescador USA
Camarillo, CA 93012

When sending in product for service, your package should include evidence of date and place of purchase. Enclose $10.00 for shipping and handling for addresses in the U.S. and $15.00 in Canada. For outside the U.S. and Canada, freight will vary depending upon ship-to address.

Proposition 65 Notice (California)
The following statement is required in the state of California pursuant to the settlement of an action brought by the Mateel Environmental Justice Foundation against multiple electronics and appliance manufacturers

WARNING: Handling the cord on this product will expose you to lead, a chemical known to the state of California to cause birth defects or other reproductive harm. Wash hands after handling.

For additional questions, comments or to explore other Lenmar battery solutions, visit our web site at: www.poweredbylenmar.com or call 800/424-2703

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