Pocket size LCD Ni-MH charger

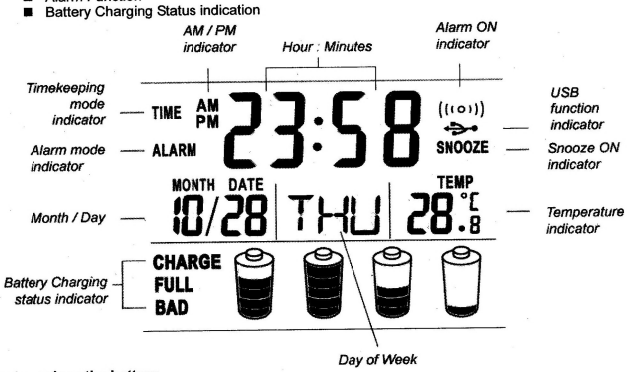
with USB input cable, Car adaptor & external AC adaptor

Owner's Manual
Thank you for purchasing this charger. Read the instruction manual thoroughly before use and keep the manual for later reference. This charger can charge all AA or AAA Nickel Metal-Hydride (Ni-MH) batteries quickly and efficiently. It is equipped with an integrated clock with alarm function and a temperature display.

How to Wake up the LCD of the charger
Pull out the tab from the side of the casing, LCD will turn on and you will hear alarm music for 10 seconds.

Warning
- Batteries (if included) are not charged as shipped. Must be charged prior to first use.
- Charge **only** Ni-MH type batteries on this charger.
- Batteries may leak or explode causing personal injury if inserted improperly, disposed of in fire, mixed with other battery types, or short circuit.

Features
- For Using in Indoor :
  - Powered by the supplied switch-mode adaptor (100-240V AC) for worldwide use.
  - Powered by your PC or Notebook with the supplied USB cable.
- For Using in a Vehicle
  - Powered by the car battery by using the supplied 12VDC car adaptor
- Recharges 1 piece to 4 pieces of AA or AAA Ni-MH batteries at a time.
- 4 individual charging channels.
- Microprocessor Controlled – Batteries life well protected by negative delta V cut-off function and timer protection.
- Defective and Non-rechargeable battery detection.
- Short circuit protection against damage for your PC or Notebook.
- Unique design with an adjustable battery contact plate that makes a good & solid contact with AA & AAA batteries.
- Automatic charging current selection for AA & AAA batteries
- Built-in 5V USB output port (output: 5V DC 500mA), designed to charge and power up your digital device.**(see USB function)
- Electric LCD with blue color backlight and designed with :
  - Clock Time Indication
  - Calendar Indication
  - Temperature Indication
  - Alarm Function
  - Battery Charging Status indication



How to replace the battery
(if the LCD get dimness/ the sound of the alarm tone become weakness)
Require 1 piece "CR-2025" 3V Lithium battery which is placed on the bottom side of the charger base.

Safety Features
- Negative delta V cut -off function
- Safety timer to prevent over charge
- Short circuit protection
- Reverse-polarity protection
- Bad cell Detection

Charging Instructions
1. Insert 1 to 4 pieces of AA/AAA rechargeable Ni-MH batteries into the battery compartment. *(The Blue backlight will light up for around 10 sec once the batteries inserted correctly)*
2. Make correct contact for polarity (+ and –) ; according to the sign in the battery compartment.
3. For charging of AAA battery, pull down the adjustable battery contact plate first and then insert the AAA batteries into the compartment. Now the AAA batteries will be hold firmly inside the compartment. The charger will adjust the suitable charging current for AAA battery automatically.
4. ***For Using in indoor***
   Connect the supplied AC adaptor's barrel plug into the jack on the back of the charger *(at the left side)*. Plug the AC adaptor into household electric outlet. The switching power supply will adjust automatically.

   Caution: The supplied AC adaptor supplies 12VDC and delivers 600mA, and its plug fits into the charger's **DC input jack**. Using an adaptor that does not meet these specifications could damage the charger or the adaptor.

   For Using in a Vehicle
   Connect the supplied DC car adaptor's barrel plug into the charger's **DC input jack**. Plug the large end of the cord into the 12V car lighter power port.

   For Using with a operating Computer or Notebook
   Connect the supplied USB cable's barrel plug into the charger's **DC input jack.** Plug the 4-pin USB plug into a **standard USB port** of your operating computer or notebook. Please make sure your computer is installed with a standard USB port with output 5VDC, 500mA.
5. The LCD will indicate the proper charging and the wording **"Charging"** will be shown. After the batteries are fully charged, the wording **"FULL"** will be shown on the LCD screen to indicate the trickle charge and the charged batteries are ready for use.
6. Unplug the charger and remove the batteries from the charger when not in use.
7. Begin again at *Step 1* to charge the next set of batteries.

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.

(when using indoor or in a vehicle) – 12VDC input

Size	Charging current	Ni-MH	Charging time (FOR 1 to 2 PCS)	Charging time (For 3 to 4 PCS)
AA	1200mA for charging 1 to 2 pieces batteries **OR** 800mA for charging 3 to 4 pieces batteries	2200mAh	110 minutes	165 minutes
		2400mAh	120 minutes	180 minutes
		2600mAh	130 minutes	195 minutes
		2800mAh	140 minutes	210 minutes
AAA	600mA for charging 1 to 4 pieces batteries	700mAh	70 minutes	
		800mAh	80 minutes	
		900mAh	90 minutes	
		1000mAh	100 minutes	
		1100mAh	110 minutes	
		1200mAh	120 minutes	

(when using with a operating computer/laptop) – 5VDC input

Size	Charging current	Ni-MH	Charging time (FOR 1 to 2 PCS)	Charging time (For 3 to 4 PCS)
AA	560mA for Charging 1 to 2 PCS batteries **OR** 280mA for Charging 3 to 4 PCS batteries	2200mAh	220 minutes	330 minutes
		2400mAh	240 minutes	360 minutes
		2600mAh	260 minutes	390 minutes
		2800mAh	280 minutes	420 minutes
AAA		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

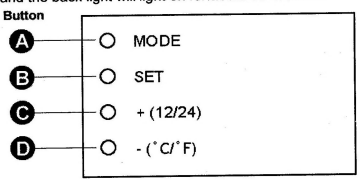
*The charge time will vary depending upon the brand, capacity and condition of batteries being charged.

Specifications

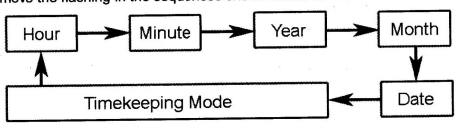
Charge rate : (when using indoor or in a vehicle) 12VDC input	1 to 2PCS AA 1200mA 3 to 4PCS AA 800mA 1 to 4 PCS AAA 600mA
(when using with a operating computer/notebook) 5VDC input	1 to 2 PCS AA / AAA 560mA 3 to 4 PCS AA / AAA 280mA
Trickle mode :	AA 50mA ; AAA 25mA

USB function
1. The USB socket will be ready for use only when charging is completed or there is no battery in the charger compartment.
2. The **"USB function indicator"** will be shown on the LCD screen to indicate the USB socket is ready for use.
3. Make sure the maximum loading is not exceeding 500mA for the USB socket.

General Guide
- The following shows which buttons on the setting panel you need to press to navigate between modes.
- The 2 stands *(at the bottom side)* act as the ON switch of the blue back light. In any mode, just to hit the top of the unit lightly and the back light will light on for about 10 seconds.

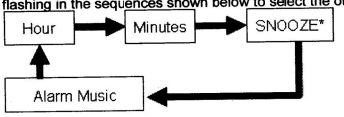


To set the Time and Date
1. In the Timekeeping Mode, press Ⓑ button and the **"Timekeeping mode indicator"** will flash.
2. Use Ⓒ and Ⓓ to change the value.
3. Press Ⓑ to move the flashing in the sequences shown below to select the other settings.



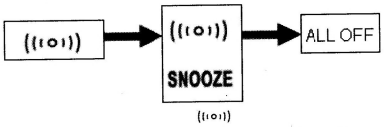
4. Press Ⓐ to exit the setting mode (It will automatically exit the setting mode if no input within 1 minute.)
5. The "Year" can be set in the range of 2000 to 2099. The day of the week is calculated automatically in accordance with the date you set.
6. In the Timekeeping Mode, you can set the toggle between 12-hour and 24-hour timekeeping by pressing the Ⓒ button.

To set the Alarms
1. In the Timekeeping Mode, press Ⓐ button to enter the Alarm Mode and the "**ALARM" indicator** will be shown.
2. Press Ⓑ button and the "**ALARM" indicator** & "Hour" value will flash.
3. Use Ⓒ and Ⓓ to change the value.
4. Press Ⓑ to move the flashing in the sequences shown below to select the other settings.



5. Press Ⓐ to exit the setting mode (It will automatically exit the setting mode if no input within 1 minute.) 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 Ⓒ and Ⓓ to change the setting you want.
6. 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 Ⓑ button.

To turn an alarm and the snooze *ON* and *OFF*
1. In the Alarm Mode, use the Ⓒ button to turn on/off the alarm or the snooze.



* ((ıoı)) (on the display) indicates alarm is ON, SNOOZE (on the display) indicates alarm & snooze are ON. They will be shown on the display in Timekeeping modes while these functions are turned ON.

Thermometer
- This charger uses a temperature senor to measure temperature.
- Temperature is displayed in units of 0.1°C (or 0.1°F) and the detection range is from 0 °C to 50°C (32°F to 99°F)
- In the Timekeeping Mode, you can set the toggle between °C or °F by pressing the Ⓓ button.

Important Safety Instructions
1. Before charging, read instruction
2. 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.
3. Do not expose charger to rain or moisture. For indoor use only.
4. Remove from mains when not in use.
5. Never use an extension cord or any attachment not recommended by manufacturer, otherwise this may result in a risk of fire, electric shock or injury to persons.
6. Do not operate the charger if it has been subjected to shock or damage. Take it to a qualified serviceman for repair.
7. Do not disassemble the charger. Incorrect reassemble may result in a risk of electric shock or fire.
8. Unplug the charger from outlet before attempting any maintenance of cleaning.
9. This power unit is intended to be correctly orientated in a vertical or floor mount position.
10. The appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
11. Before scrapping your charger, remove the batteries from the unit and they are disposed of safety.

SAVE THESE INSTRUCTIONS, DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

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