

CHARGE ISCHARGE

Thank you for your purchase. This is the most advanced charge / discharge system for Ni-Cd & Ni-MH batteries. Our exclusive battery internal resistance detection accurately calculate battery IR in realtime during charging, discharging & cycling. New V6 software also allow users to set trickle charge on/off, store 10 battery profiles, recall last battery charge and discharge data, select 6 different ring tones, handle 1 to 10 cells with high performance switching circuitry, select partial charge, set auto timer for repeak, boost battery before race...etc The unit may seems complicated at first but once you start using it, you will find it very user friendly. The following user guide will be very helpful for both expert users and beginners.

NEW FUNCTION

NORMAL PEAK

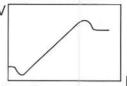
Normal Peak

time to zero.

ADD Specification

Use this mode for all standard charging applications. You can setup the unit to perform one peak or two peaks. You can setup the auto repeak delay time within the USER SETUP MODE To turn off the 2nd peak, set the repeak delay

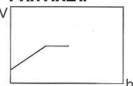
FUZZY LOGIC



Fuzzy Logic

This charge mode is especially useful for packs with a partial charge. The unit would first discharge your pack according to your preset discharge rate and then fully charge your

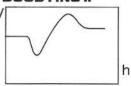
PARTIAL ..



Partial...

Use this mode only for Ni-MH cell(s). Certain Ni-MH batteries require a partial charge for long term storage. You can program the amount of partial charge in the USER SETUP MODE. 10 to 30% usually good for Ni-MH battery.

BOOSTING..



Boosting..

still warm.

This mode is developed for racing application. You can get the most capacity and power from your batteries using this boosting function. The unit first partial discharge your pack momentarily follow by a preprogrammed fast charge, this increase battery temperature as well as it's overall voltage output. We suggest that you only use this boosting feature when your pack is cool. Never use the Boosting function when your pack is

SPECIFICAT

LCD	. 2x16characters INDIGO Blue backlit LCD display
BUTTONS	
Battery IR	mOhm

ırface Panel Type Ohm Auto Repeak..... On/Off 1-60 Minutes(1minute step) Partial Charge 10-50%(10% step)

Alarm Sound...... 6 Ring Tones (user selectable) Case Size...... 6.14"x 4.80"x 1.77" (15.6x12.2 4.5cm)

Weight......24.54ounces(695g) 11.5-15 Volts DC Input Voltage(Power Source)...... Charge Battery Capacity..... 50-6000mA (50mA step) Charge rate(Super linear)..... 0.1-7.0A(0.1A step) Auto Trickle ON/OFF Auto Trickle Value

Discharge Rate..... 0.1-20.0A(0.1V step) Volt Threshold..... 3-20mV/cell for Ni-CD,3-15mV/cell for Ni-MH,

Cycle Number..... Delay Time For After Charge...... 1-9 times(1 time step) 1-10 Minutes(1 Minutes step)

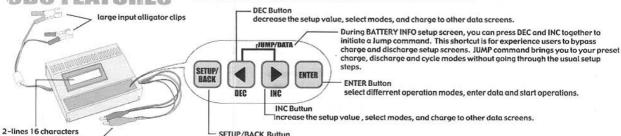
Delay Time For After Discharge.... 1-60 Minutes (1 Minutes step)

LCD Display

		Charge or Discharge capacity	Charge or Discharge time	Outoput Battery Voltage	Charging Current (Discharge Current)	Slow charging current	Input Voltage	Peak Voltage	Average Voltage (0.000V)	Battery Resistance
	During charge	0	0	0	0		•		personal and	0
	After charge	•	0	0			0			0
Disharge mode	During discharge			0		100000000000000000000000000000000000000	0		0	
	After discharge					C ENDINESS	0	GC - ELD-130	0	
	During Initial discharge	0	0		0		0	(2) S. IV - IV		
	During discharge		0		0		0		0	
	During charge	0	0		0		0			0
	After charge	0	0	0			0			0
	After test discharge						0	0		
Data		0	0		0	0				

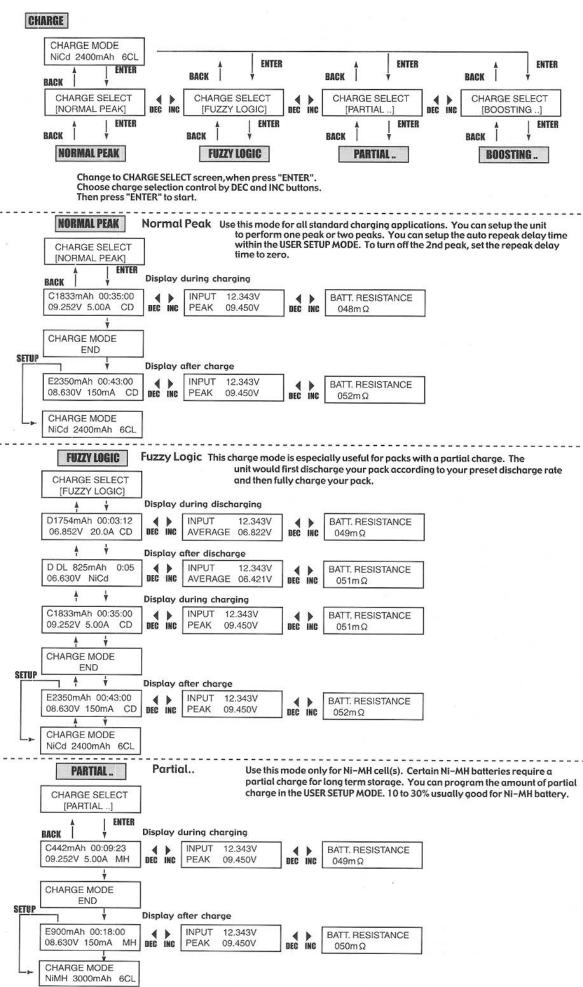
CDC FEATURES

You can push DEC and INC together to access a special screen. This screen save previous battery charge and discharge information, data is available until power source is disconnected.



dot-matrix backlit LCD Alligator output clips display (blue color) W/voltage sensing

cancel operation and data erase(reset), or returns you to the revious screen within the SETUP mode.





CHARGE ISCHARGE

Thank you for your purchase. This is the most advanced charge / discharge system for Ni-Cd & Ni-MH batteries. Our exclusive battery internal resistance detection accurately calculate battery IR in realtime during charging, discharging & cycling. New V6 software also allow users to set trickle charge on/off, store 10 battery profiles, recall last battery charge and discharge data, select 6 different ring tones, handle 1 to 10 cells with high performance switching circuitry, select partial charge, set auto timer for repeak, boost battery before race...etc The unit may seems complicated at first but once you start using it, you will find it very user friendly. The following user guide will be very helpful for both expert users and beginners.

NEW FUNCTION

NORMAL PEAK

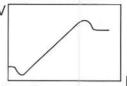
Normal Peak

time to zero.

ADD Specification

Use this mode for all standard charging applications. You can setup the unit to perform one peak or two peaks. You can setup the auto repeak delay time within the USER SETUP MODE To turn off the 2nd peak, set the repeak delay

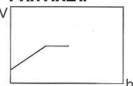
FUZZY LOGIC



Fuzzy Logic

This charge mode is especially useful for packs with a partial charge. The unit would first discharge your pack according to your preset discharge rate and then fully charge your

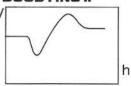
PARTIAL ..



Partial...

Use this mode only for Ni-MH cell(s). Certain Ni-MH batteries require a partial charge for long term storage. You can program the amount of partial charge in the USER SETUP MODE. 10 to 30% usually good for Ni-MH battery.

BOOSTING..



Boosting..

still warm.

This mode is developed for racing application. You can get the most capacity and power from your batteries using this boosting function. The unit first partial discharge your pack momentarily follow by a preprogrammed fast charge, this increase battery temperature as well as it's overall voltage output. We suggest that you only use this boosting feature when your pack is cool. Never use the Boosting function when your pack is

SPECIFICAT

LCD	. 2x16characters INDIGO Blue backlit LCD display
BUTTONS	
Battery IR	mOhm

ırface Panel Type Ohm Auto Repeak..... On/Off 1-60 Minutes(1minute step) Partial Charge 10-50%(10% step)

Alarm Sound...... 6 Ring Tones (user selectable) Case Size...... 6.14"x 4.80"x 1.77" (15.6x12.2 4.5cm)

Weight......24.54ounces(695g) 11.5-15 Volts DC Input Voltage(Power Source)...... Charge Battery Capacity..... 50-6000mA (50mA step) Charge rate(Super linear)..... 0.1-7.0A(0.1A step) Auto Trickle ON/OFF Auto Trickle Value

Discharge Rate..... 0.1-20.0A(0.1V step) Volt Threshold..... 3-20mV/cell for Ni-CD,3-15mV/cell for Ni-MH,

Cycle Number..... Delay Time For After Charge...... 1-9 times(1 time step) 1-10 Minutes(1 Minutes step)

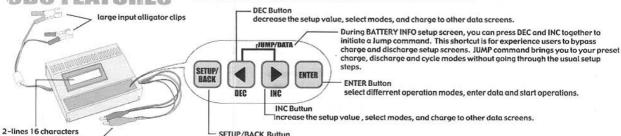
Delay Time For After Discharge.... 1-60 Minutes (1 Minutes step)

LCD Display

		Charge or Discharge capacity	Charge or Discharge time	Outoput Battery Voltage	Charging Current (Discharge Current)	Slow charging current	Input Voltage	Peak Voltage	Average Voltage (0.000V)	Battery Resistance
	During charge	0	0	0	0		•		personal and	0
	After charge	•	0	0			0			0
Disharge mode	During discharge			0		100000000000000000000000000000000000000	0		0	
	After discharge		0			C ENDINESS	0	GC - ELD-130	0	
	During Initial discharge	0	0		0		0	(DED)		
	During discharge		0		0		0		0	
	During charge	0	0		0		0	0		0
	After charge	0	0	0			0			0
	After test discharge						0	0		
Data		0	0		0	0				

CDC FEATURES

You can push DEC and INC together to access a special screen. This screen save previous battery charge and discharge information, data is available until power source is disconnected.



dot-matrix backlit LCD Alligator output clips display (blue color) W/voltage sensing

cancel operation and data erase(reset), or returns you to the revious screen within the SETUP mode.

SAFETY PRECAUTION

- 1. Do not leave the battery and the charger unattended while in use.
- 2. Do not operate the charger near water
- 3. It is the users responsibility to follow battery mfg. suggested charge rate. Users must also closely monitor the pack temperture during fast charging. Overcharging may occur if the CDC malfunction or when user does not follow battery mfg. recommended charges rate.
- 4. Never connect the charger to an automobile while it's engine is running.
- 5. This charger is not intended for use by unsupervised children.
- This charger is disigned for high power Ni-Cd & Ni-MH battery only.
- When charging, also monitor the temperature of the charger. If the unit becomes too hot, disconnect the unit

CONNECTING THE POWER SOURCE & RATTERY PACK Please see the SELECTION MENUS CHART.

1. You can use any regulated supply or lead-acid battery which supplied 11.5-15 volts DC with at least 10A capacity. 12V automotive charger also works fine. CDC shows Previous setup values when you connect the large input clips to power source.

The RED Positive (+) large input clips to the POS(+) terminal of the power source, BLACK Negative(-) large input clips to the NEG(-) terminal of the power source.

Connect the small alligator output clips to your Ni-CD or Ni-MH pack.

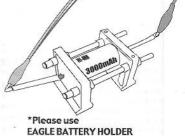
The RED positive(+) alligator output clips to the positive(+) side of the battery wire, BLACK negative(-) alligator output clip to the negative (-) side of the battery wire.

A poor connection can cause the charger to FALSE PEAK and turn off before a full charge is completed.





The connector wires must be different length, this would help prevent short circuit.



when matching single cell batteries.

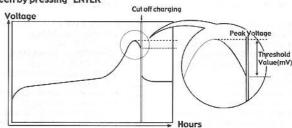
3.BATTERY INFORMATION

Change to the BATTERY INFORMATION SCREEN when you press the back button. Follows $\bigcirc -9$ selection control by DEC and INC.

- Select the battery type, change to next screen when press "ENTER"
- 2 Select the number of cells , change to next screen by pressing "ENTER"
- Select the proper battery capacity, change to next screen by pressing "ENTER"
- 4 Select the desire charge current, change to next screen by pressing "ENTER" Please see the RATE-SELECTABLE CHART.
- Select the desire discharge current, change to next screen by pressing "ENTER" Please see the RATE-SELECTABLE CHART.
- 6 Select the desire value of volt threshold, change to next screen by pressing "ENTER"

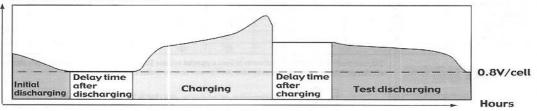
VOLT THERSHOLD SETTING

The volt thershold value entered the drop in millivolts that the CDC looks for determine that the battery pack has peaked. This is adjustable from 3 to 20mV/cell(Ni-CD) and 3 to 15mV/cell(Ni-MH). To adjust, push the DEC and INC buttons from the Volt Threshold screen. Please see the RATE-SELECTABLE CHART.



- CAUTION: 1. If you setup higher volt threshold value than the rate is more than standard threshold value, the CDC gives longer charge to the battery.
 - This may overcharge your pack, causing chemical leak & overheat, internal damage to your batteries will result.
 - 2. Don't use "RATE-SELECTABLE CHART" value for old and damaged battery, The CDC will not work correctly.
 - Select the desire number of cycle, change to next screen by pressing "ENTER" (THE ONE CYCLE PROCESS)

Voltage



- Select the delay time for after charge, change to next screen by pressing "ENTER"
- Select the delay time for after discharge, change to next screen by pressing "ENTER"

During BATTERY INFO setup screen, you can press DEC and INC together to initiate a Jump command. This shortcut is for experience users to bypass charge and discharge setup screens. JUMP command brings you to your preset charge, discharge and cycle modes without going through the usual setup screens.

USER PROGRAM MODE

Change to the USER PROGRAM MODE by pressing the INC button. Follows 1 – 4 selection control by DEC and INC.

- 1 Select the slow charge ON or OFF, change to next screen by pressing "ENTER"
- Select the delay time for repeak charge , change to next screen by pressing "ENTER" 0 If you set up 0 MIN, there will be no 2nd auto repeak.
 - CAUTION: Auto repeak charge works for Normal Peak & Fuzzy Logic only.
- Select the partial rate (10-50%), change to next screen by pressing "ENTER" 3
 - We recommend select 10-30% for NI-MH battery long term storage
- Select the operation end metody, change to next screen by pressing "ENTER"
- Then press the ENTER to USER PROGRAM MODE again. (5) Change to other MODE when you control by DEC button.

5.CHAGE MODE

Change to the CHARGE MODE by pressing the DEC and INC bottons.

Change to CHARGE FUNCTION and press "ENTER"

Then you can select the charge function, control by DEC and INC.

Press "ENTER" to start. The rings will announce complete charge.

6.DISCHARGE MODE

Change to the DISCHARGE MODE by pressing the DEC and INC buttons. Press "ENTER" to start. Check your battery info data & user program data.

7.CYCLE MODE

Change to the CYCLE MODE by pressing the DEC and INC buttons.

Press "ENTER" to start. Check your battery info data & user program data.

8.DISPLAY RESULT

You can push DEC and INC together to access a special screen. This screen save previous battery charge and discharge information, data is available until power source is disconnected.

RATE-SELECTABLE CHART.

	KIND OF BATTERY	Standard threshold value	Maximum threshold value	Charge current	Disharge current
Ni-CD	SANYO less than 200mAh	3mV	(3mV)	less than 0.3A	less than 0.3A
	SANYO less than 500mAh	3mV	(3mV)	less than 0.3A	less than 0.3A
Ì	SANYO 500mAh	3mV	(5mV)	less than 1.0A	less than 0.5A
	SANYO 600mAh	3mV	(5mV)	less than 1.0A	less than 0.5A
	SANYO 1100mAh	3mV	(5mV)	less than 1.0A	less than 0.8A
NI-MH [SANYO 700mAh(AAA)	3mV	(5mV)	less than 1.0A	less than 0.5A
11000	SANYO 1700mAh (AA)	3mV	(5mV)	less than 1.0A	less than 0.8A
Ni-CD	SANYO RC1300	10mV	(15mV)	less than 4.0A	less than 15.0A
	SANYO RC1400	10mV	(15mV)	less than 4.0A	less than 15.0A
İ	SANYO RC1500	10mV	(15mV)	less than 4.0A	less than 15.0A
T I	SANYO RC1500HP	10mV	(15mV)	less than 4.0A	less than 15.0A
	SANYO RC1700	15mV	(20mV)	less than 5.0A	less than 20.0A
	SANYO RC2000	15mV	(20mV)	less than 5.0A	less than 20.0A
	SANYO RC2400	15mV	(20mV)	less than 5.0A	less than 20.0A
	SANYO RC2400HP	15mV	(20mV)	less than 5.0A	less than 20.0A
NI-MH	SANYO RC3000	8mV	(15mV)	less than 5.0A	5.0A~20A
	SANYO RC3000HV	8mV	(15mV)	less than 6.0A	5.0A~20A
	Panasonic P-3000	5mV	(8mV)	less than 5.0A	5.0A~20A
	Panasonic P-3000HV	5mV	(8mV)	less than 5.0A	5.0A~20A
	Panasonic P-3000HV ULTRA METAL	5mV	(8mV)	less than 5.0A	5.0A~20A
	POWERS GT3000R & GT R3300	4mV	(6mV)	less than 4.0A	5.0A~20A

ERROR MESSAGE Check the ERROR MESSAGE CHART which error you have.

CUSTOMER SERVICE & REPAIRS

EAGLE MODEL CO., LTD 62-79 IWAYA-CHO TOYOHASHI-CITY AICHI-KEN 440-0842 JAPAN

TEL.(81)-532-61-1554 FAX.(81)-532-61-1727

RADIO CONTROL RACING PARTS MANUFACTURERS & TRADING

E-mail: eagle001@sala.or.ip

www.eaglemodel.com

Review this instruction before sending CDC for service.

PRODUCT WARRANTY

EAGLE MODEL CO., LTD guarantees the CDC to be free from defects in materials and workmanship for a period 120 days from original date of purchase.(Verified by dated , itemmized sales receipt)
We reserve the right to modiry the provisions stated in this warranty without notice. This warranty is limited to the original purchaser of the charger and is not transferable.

Any self modification voide all warranty.

And in case of oren case, change wire, Addition of parts to CDC.

Use other purpose that out of CDC SPECIFICATION. Allowing water, moisture.

SELECTION MENUS CHART START DISPLAY EAGLE RACING Version 6.0 MODE DISPLAY BATTERY INFO BATTERY INFO BATTERY INFO BATTERY INFO BACK A BACK A BACK A BACK A CHARGE MODE DISCHARGE MODE CYCLE MODE USER PRGM MODE PRESS SETUP NiMH 3000mAh NiMH 3000mAh 6CL NiMH 3000mAh 6CL 6CL ENTER DISCHARGE MODE CYCLE MODE CHARGE MODE LCD shows previous input DEC INC 4.0C 20.0D DECINO 4.0C 20.0D 10mV 4.0C 20.0D 10mV 10mV setup values, when you USER PRGM MODE connect the large input CHARGE MODE DISCHARGE MODE CYCLE MODE clips to power source. C: 1MIN D: 1MIN C: 1MIN D: 1MIN C: 1MIN D: 1MIN ENTER ENTER ENTER BACK DISCHARGE MODE CYCLE MODE CHARGE START START V ENTER V ENTER À BACK BACK DISCHARGE CYCLE Next PAGE BATTERY INFO USER PRGM MODE BATTERY INFORMATION can store 10 different profiles BATTERY INFO[0] in the memory. NiMH 3000mAh 6CL USER PRGM MODE + ENTER PRESS SETUP BACK A BATTERY TYPE **ENTER** DEC INC Select your batteries type. DEC INC NiCd BACK ENTER Select the slow charge TRICLE CURRENT BACK ON or OFF ON OFF **CELL NUMBER** DEC INC Select the number of cell in your battery pack. 6CELL **ENTER** DEC INC (Minimum 1 cell to Maximum 10 cells) + ENTER BACK 1 Select the value of BACK delay time for DEC INC BATTERY CAPACITY DERY TIME FOR repeak charge. 3000mAh Select your battery capacity REPEAK= OMIN (Minimum 0 minute (Minimum 50mAh to Maximum 6000mAh) ENTER to Maximum 60 minutes) ENTER BACK *If you setup 0 minute, CHARGE CURRENT DEC INC will be no 2nd peak. Select the charge current 4.0A (Minimum 0.1A to Maximum 7.0A) DEC INC ENTER BACK BACK Use this mode only for DISCHG. CURRENT PARTIAL RATE = 20% DEC INC Select the discharge current Ni-MH cell(s). Certain 20.0A 600mAh / 3000mAh DEC& INC Ni-MH batteries require (Minimum 0.1A to Maximum 20.0A) ENTER a partial charge for long ENTER Together for BACK term storage. You can DEC INC jump program the amount of △PEAK ADJ. NIMH Select the value of volt threshold. partial 10mV/C. 60mV/P. (Ni-CD Minimum 3mV to Maximum 20mV per cell charge in the USER ENTER Ni-MH Minimum 3mV to Maximum 15mV per cell) SETUP MODE. 10 to 30% DEC INC BACK for NI-MH battery. CYCLE NUMBER Select the number of cycle BACK **♦** ▶ DEC INC 1 TIMES (Minimum 1 time to Maximum 9 times) MELODY SELECT ENTER Press DEC and INC to 1 SOUND change alarm sound. BACK **DELAY TIME AFTER** DEC INC Select the value of DELAY TIME AFTER CHARGE. CHARGE= 1 MIN (Minimum 1 minute to Maximum 60 minutes) BACK **ENTER** USER PRGM MODE BACK PRESS SETUP **DELAY TIME AFTER** DISCHARGE= 1 MIN Select the value of DELAY TIME AFTER DISCHARGE. ENTER BACK (Minimum 1 minute to Maximum 60 minutes) ENTER MODE DISPLAY **USER PRGM MODE** BACK (BACK* BACK USER PRGM MODE CHARGE MODE DISCHARGE MODE CYCLE MODE 4 1 1T **♦** ▶ DEC INC NiMH 3000mAh 6CL DEC INC NiMH 3000mAh 6CL DEC INC NiMH 3000mAh 6CL PRESS SETUP **ENTER**

ERROR MESSAGE

BACK T

CHARGE

This list the massages that may appear on the CDC's display, and the probable cause and solution. If you are unable to solve your problem, contact with our Customer Service Department.

INPUT VOLTAGE Error 10.451V

ENTER

In case the range of the input voltage exceeds between 11.5V-15.0V The above error massage will Once ESC key is pressed. Mode selection Display will

be show.

Open Circuit Error

be show.

DISCHARGE

In case the battery pack is disconnected during charging or discharging, the above error massage will be shown. Once ESC key is pressed, Mode selection Display will

No Battery Error

be show.

In case Charge/ Discharge/ Cycle mode is practiced while the battery pack is disconnected, the above error massage will be Once ESC key is pressed , Mode selection Display will

Reverse Battery Error

CYCLE

ENTER

In case Charge/ Discharge/Cycle mode is executed while the battery pack is connected in reverse , the above massage will be shown Once ESC key is pressed, Mode selection Display will

PROCESSING

BACK

Charge Processing Discharge Processing

USER PRGM MODE

Sometimes special processing time is required for resting battery packs. This is a preprogrammed function and will improve overall battery performance.

