INSTRUCTION MANUAL

AC/DC INPUT

Professional Balance
Charger/Discharger

TABLE OF CONTENTS

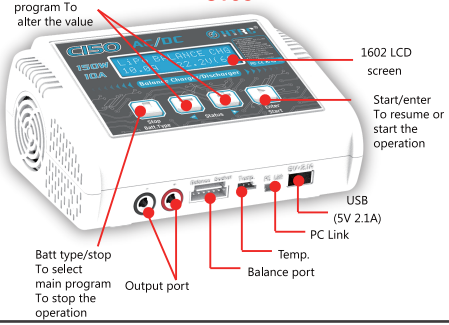
Thank you for purchasing the HTRC® charger. Designed for both rookies and pro-fessionals, this system is extremely versatile For the safety and the best use of your system, please read this manual carefully.

SPECIFICATIONS:

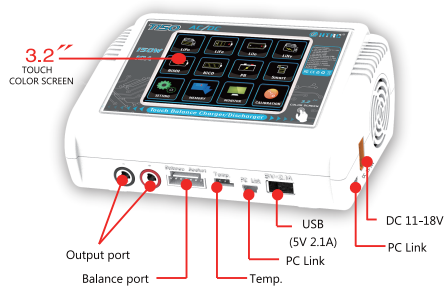
Product Model:	C150	C240 DUO Power Distribution	T150	T240 DUO Power Distribution
AC Input Voltage	100-240V	100-240V	100-240V	100-240V
DC Input Voltage	11-18V	11-18V	11-18V	11-18V
Charge power	AC INPUT 150W DC INPUT 150W	AC INPUT (CH1+CH2=150W) DC INPUT (120W*2)	AC INPUT 150W DC INPUT 150W	AC INPUT (CH1+CH2=150W) DC INPUT (120W*2)
Charge current	0.1-10A	0.1-10A*2	0.1-10A	0.1-10A*2
Discharge current	0.1-2A	0.1-2A*2	0.1-2A	0.1-2A*2
Lipo/Lilo/LiFe/LiHV	1-6cells	1-6cells*2	1-6cells	1-6cells*2
NiCd/NiMH	1-15cells	1-15cells*2	1-15cells	1-15cells*2
PB	2-20V	2-20V*2	2-20V	2-20V*2
Smart Battery	I/II/III	I/II/III*2	I/II/III	I/II/III*2
Net weight	0.70Kg	0.75Kg	0.70Kg	0.75Kg
Dimension	145x105x64mm	145x105x64mm	145x105x64mm	145x105x64mm

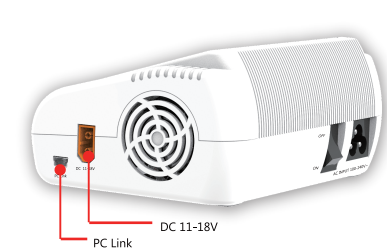
INTRODUCTION

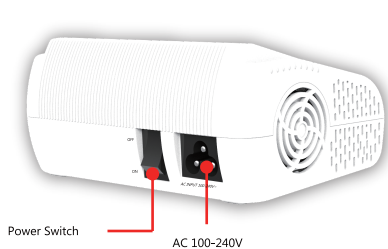
C150



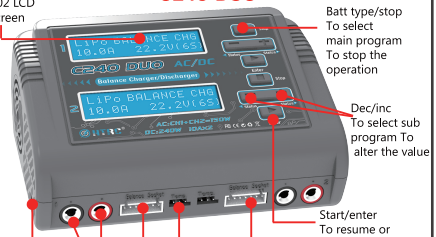
T150



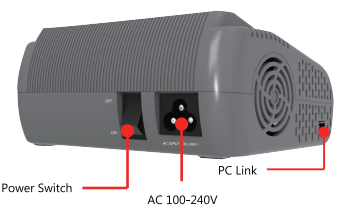




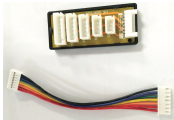
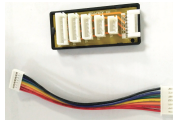
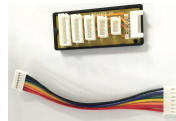
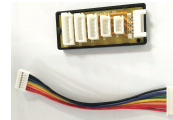
C240 DUO



T240 DUO



ACCESSORIES

C150	C240 DUO	T150	T240 DUO
 Adapter Board1SET	 Adapter Board 2 SET	 Adapter Board1SET	 Adapter Board 2 SET
 Extra Cable x1pcs	 Extra Cable x2pcs	 Extra Cable x1pcs	 Extra Cable x2pcs
 Extra Cable x1pcs	 Extra Cable x1pcs	 Extra Cable x1pcs	 Extra Cable x1pcs
 AC Cord x1pcs	 AC Cord x1pcs	 AC Cord x1pcs	 AC Cord x1pcs

- This charger is ONLY suitable for charge rechargeable LiPo, LiIo, LiFe,LiHv, NiCd, NiMH, Smart and Pb batteries Do not attempt to charge dry cells. Charge other types of batteries may cause fire or explosion.
- Set up the Input Power Limit/Low Input VOLT Cutoff correctly in the USER SETTING fo the DC power supply.
- Pay attention to the charger during use. Do not leave the charger unattended.
- Never charge the dead or damaged batteries.
- Do not attempt to charge a battery pack containing different types of batteries.
- Do not use a too long or damaged cables.
- Do not use the charger close by a flammable object. Use only in well-ventilated areas.
- Only charge the rechargeable batteries that meet the product specifications of this charger.
- Do not allow water, moisture or foreign objects into the charger.
- Do not use in humid locations. Do not operate with wet hands.
- Do not attempt to disassemble the charger.
- Do not use the charger on fleecy materials, such as carpets, blankets, beds and cushions.
- Do not block the cooling fan and the air inlet.
- Strongly recommend balancing Lithium packs. An unbalanced pack may damage during discharging.
- General default charging current is 1C. Read the manual of the battery and setup the suitable current to charge the battery Higher charge/discharge current will damage the battery, even cause a fire.

BATTERIES INFO and MAX CHARGE CURRENT

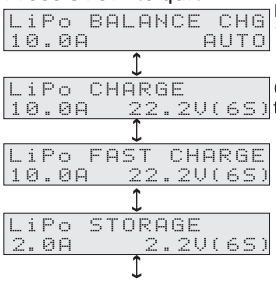
Battery Type	No.o f Cells	Rated Voltzge(V)	Charger Current(A)
LiHV	1	3.8	0.1-10.0A
	2	7.6	0.1-10.0A
	3	11.4	0.1-10.0A
	4	15.2	0.1-10.0A
	5	19.0	0.1-10.0A
	6	22.8	0.1-10.0A
Lipo	1	3.7	0.1-10.0A
	2	7.4	0.1-10.0A
	3	11.1	0.1-10.0A
	4	14.8	0.1-10.0A
	5	18.5	0.1-10.0A
	6	22.2	0.1-10.0A
LiIo	1	3.6	0.1-10.0A
	2	7.2	0.1-10.0A
	3	10.8	0.1-10.0A
	4	14.4	0.1-10.0A
	5	18	0.1-10.0A
	6	21.6	0.1-10.0A
LiFe	1	3.3	0.1-10.0A
	2	6.6	0.1-10.0A
	3	9.9	0.1-10.0A
	4	13.2	0.1-10.0A
	5	16.5	0.1-10.0A
	6	19.8	0.1-10.0A
NiMH /NiCd	1	1.2	0.1-10.0A
	2	2.4	0.1-10.0A
	3	3.6	0.1-10.0A
	4	4.8	0.1-10.0A
	5	6	0.1-10.0A
	6	7.2	0.1-10.0A
	7	8.4	0.1-10.0A
	8	9.6	0.1-10.0A

Battery Type	No.o f Cells	Rated Voltzge(V)	Charger Current(A)
NiMH /NiCd	9	10.8	0.1-10.0A
	10	12	0.1-10.0A
	11	13.2	0.1-10.0A
	12	14.4	0.1-10.0A
	13	15.6	0.1-10.0A
	14	16.8	0.1-10.0A
	15	18	0.1-10.0A
Pb	1	2	0.1-10.0A
	2	4	0.1-10.0A
	3	6	0.1-10.0A
	4	8	0.1-10.0A
	5	10	0.1-10.0A
	6	12	0.1-10.0A
	7	14	0.1-10.0A
	8	16	0.1-10.0A
	9	18	0.1-10.0A
	10	20	0.1-10.0A
	11	22.0	0.1-10.0A
	12	24.0	0.1-10.0A

Lipo	Voltage Level: 3.7V/cell Max Charge Voltage: 4 .2V/Cell Discharge Voltage Cut off Level: 3.0V/cell or Higher
LiIo	Voltage Level: 3.6V/cell Max Charge Voltage: 4.1V/Cell Discharge Voltage Cut off Level: 3.0V/cell or Higher
LiFe	Voltage Level: 3.3V/cell Max Charge Voltage: 3.8V/Cell Discharge Voltage Cut off Level: 2.0V/cell or Higher
LiHV	Voltage Level: 3.8V/cell Max Charge Voltage: 4.35V/Cell Discharge Voltage Cut off Level: 3 .2V/cell or Higher
NiMH /NiCd	Voltage Level: 1.2V/cell Max Charge Voltage: 1.6V/Cell Discharge Voltage Cut off Level: 0.80V/cell or Higher
Pb	Voltage Level: 2.0V/cell Max Charge Voltage:2 45V/Cell Discharge Voltage Cut off Level: 1.50V/cell or Higher

PROGRAM OF Lipo/Lilo/LiFe/LiHV(C150/C240 DUO)

Press +/- to shift the work modes between the battery and the charger. Press ENTER to select
Press STOP to quit



BALANCE CHARGE: With this mode, the charger will charge the battery to the termination voltage and balance each cell of the battery pack.
Balance port of the battery must be connected.

CHARGE: With this mode, the charger will charge the battery to the terminationvoltage by CC-CV mode, and stop at 1/10 of setting current.

FAST CHARGE: With this mode, the charger will charge the battery to the termination voltage by CC-CV mode, and stop at 1/5 of setting current.

STORAGE: With this mode, the charger will charge or discharge the battery to the storage voltage.
(LiPo: 3.85V/S Lilo: 3.75V/S LiFe: 3.45V/S LiHV:4.35V/S)

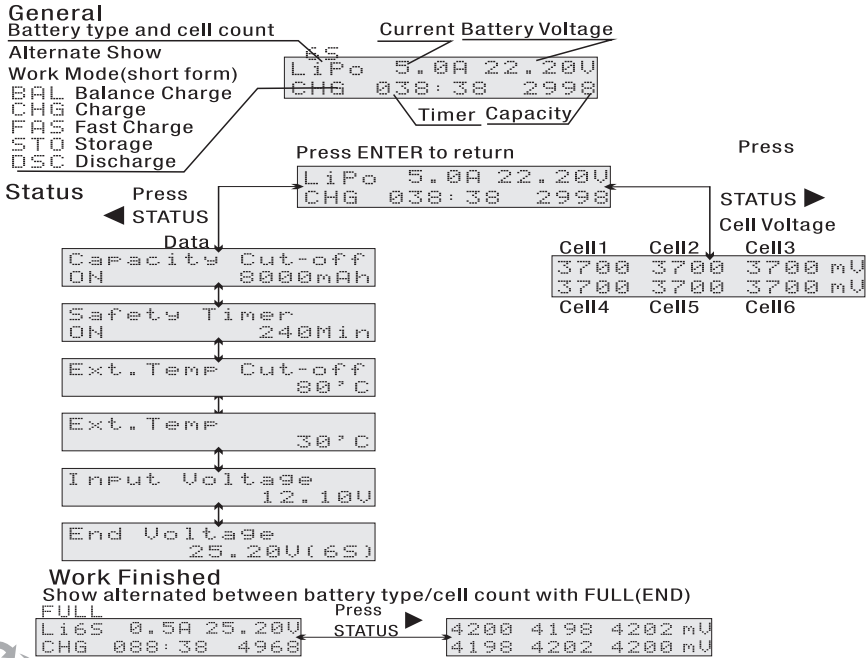
DISCHARGE: With this mode, the charger will discharge the battery to the termination voltage.

Select Battery Type/Current/Cell Count after work mode selection.
Press +/- button to shift or increase/decrease
Press ENTER to select
Press STOP to quit

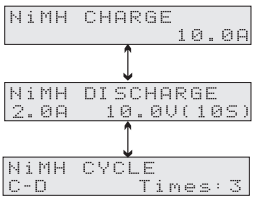
The character will blinking during being select

Press ENTER for 2 seconds, the charger will check the battery then enter confirm nterface. Press STOP to cancel, press ENTER to start working.

WORKING INTERFACE (C150/C240 DUO)



Press +/- to shift the work modes between the battery and the charger.
Press ENTER to select
Press STOP to quit

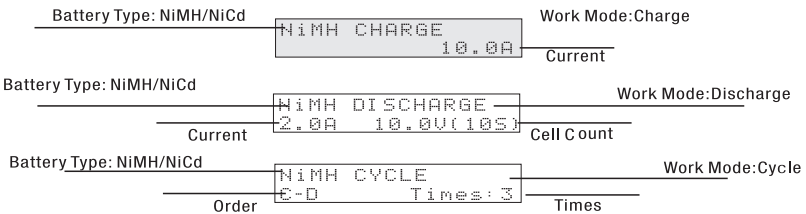


CHARGE: With this mode, the charger will automatically detect the cell count of the battery and charge the battery to the termination voltage.

DISCHARGE: With this mode, the charger will discharge the battery to the termination voltage.

Cycle: With this mode, the charger will charge and discharge the battery by the user s setting.(Current, Cell Count separately set in Charge and Discharge mode)

Select Battery Type/Current/Cell Count after work mode selection.
Press +/- button to shift or increase/decrease
Press ENTER to select
Press STOP to quit



The character will blinking during being select

Press ENTER for 2 seconds, the charger will start working.

WORKING INTERFACE (C150/C240 DUO)

General

Battery type and cell count

Alternate Show

Current

Battery Voltage

```
NiMH 10.0A 10.20V
CHG  038:38  2668
```

Timer

Capacity

Work Mode(short form)

CHG Charge

DSC Discharge

C-D/D-C Cycle

Work Finished

Show alternated between battery type/cell count with FULL(END).

```
FULL
NiMH  0.4A 16.00V
CHG  058:38  4968
```

Status

Press ENTER to return

Press STATUS

```
NiMH  5.0A 22.20V
CHG  038:38  2668
```

Data

```
Capacity Cut-off
ON          8000mAh
```

```
Safety Timer
ON           240Min
```

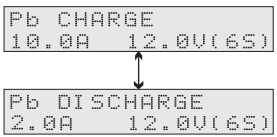
```
Ext.Temp Cut-off
              80°C
```

```
Ext.Temp
              30°C
```

```
Input Voltage
             12.10V
```

```
NiMH Sensitivity
D-Peak          7mV
```

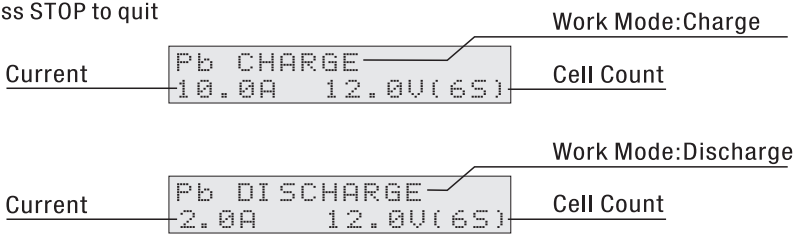
Press +/- to shift the work modes between the battery and the charger.
Press ENTER to select
Press STOP to quit



CHARGE: With this mode, the charger will charge the battery to the termination voltage.

DISCHARGE: With this mode, the charger will discharge the battery to the termination voltage.

Select Current/Cell Count after work mode selection.
Press +/- button to shift or increase/decrease
Press ENTER to select
Press STOP to quit

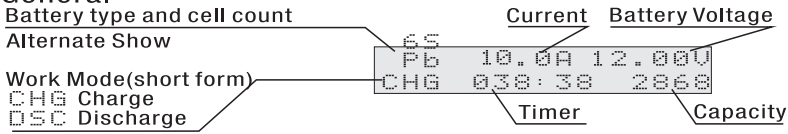


The character will blinking during being select

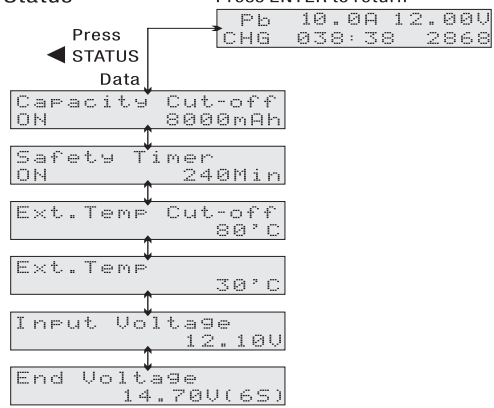
Press ENTER for 2 seconds, the charger will start working.

WORKING INTERFACE (C150/C240 DUO)

General



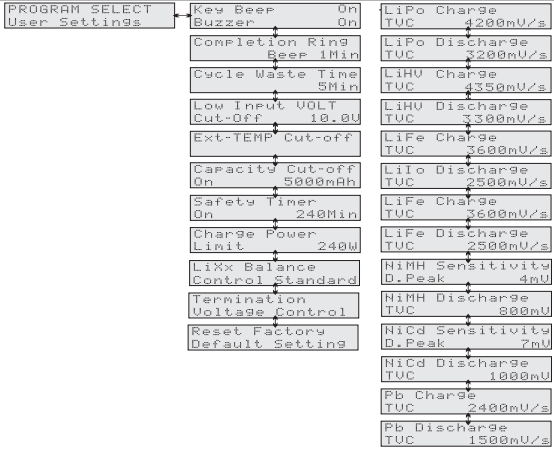
Status



Work Finished

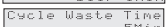
Show alternated between battery type/cell count with FULL(END).

PROGRAM OF USER SETTINGS(C150/C240 DUO)

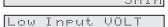


In this menu, you can turn on/off of the key sound and set the volume of the buzzer. Keep Beep default: On . Buzzer default: Low

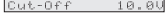
In this menu, you can set the completion ring, 1-5 minutes/off/always optional. Default: 1Min



In this menu, you can set the waste time between charge and discharge in NiMH/NiCd cycle mo
Range from 1-60Min, Default: 5Min



In this menu, you can set the cutoff input voltage of the power supply of the charger to protect your power supply. The charger will cutoff working when input voltage lower than the setting value.
Range from 10.0-18.0V, Default: 10.0V



In this menu, you can set the cutoff external temperature to protect your battery.
The charger will cutoff working when the external temperature is higher than the setting value (a external temperature sensor is needed). On/Off optional, range from 30-90°C,Default: 80°C

In this menu, you can set the cutoff capacity to protect your battery.
The charger will cutoff working when the capacity is more than the setting value.
On/Off optional range from 100-60000mAh Default: 8000mAh

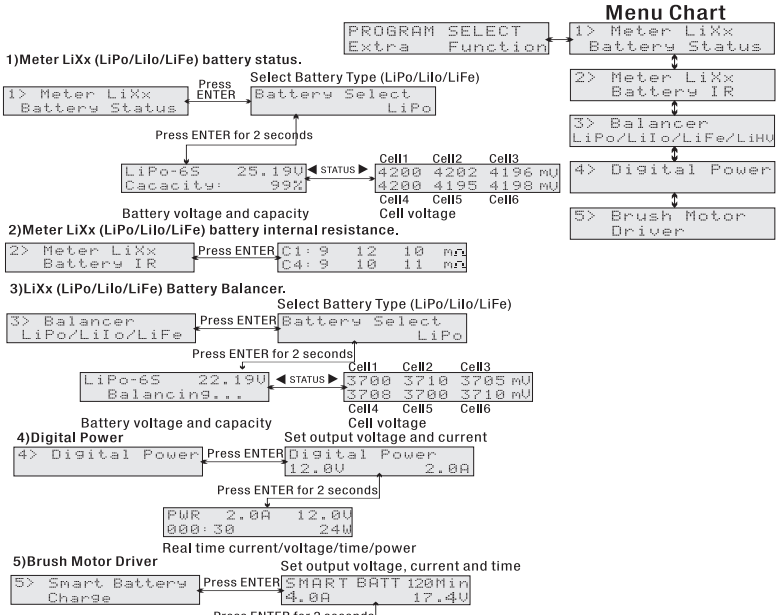
PROGRAM OF USER SETTINGS(C150/C240 DUO)

Safety Timer On 240Min	In this menu, you can set a safety time to protect your charger and battery. The charger will cutoff working when the safety time is up to the setting value. On/Off optional, range from 10-720 minutes, Default: 240 minutes
Charge Power Limit 240W	In this menu, you can set the charge power limit to meet your power supply. The charge will work under the setting value. Range from 10-250 watt,Default: 250 watt
LiXx Balance Control Standard	Balance control of LiPo/LiIo/LiFe, you can set the balance control to meet your demand. Standard/Fast/Accurate optional. Default: Standard *Fast: Balance speed fastest, less accurate. *Accurate: Balance speed lowest, more accurate. *Standard: balance speed and accurateness between Fast and Accurate·
Reset Factory Default Setting	Reset factory default setting.

Termination
Voltage Control ↔

Termination voltage control per cell of all the batteries this charger support. You can set the value according to your request.

LiPo Charge TVC 4200mV/s	Range from 4150-4250 mV/s Default: 4200mV/s
LiPo Discharge TVC 3200mV/s	Range from 3000-3850mV/s Default: 3200mV/s
LiHV Charge TVC 4350mV/s	Range from 4300-4400 mV/s Default: 4350mV/s
LiHV Discharge TVC 3300mV/s	Range from 3100-3950mV/s Default: 3300 mV/s
LiIo Charge TVC 4100mV/s	Range from 3750-4200mV/s Default: 4100mV/s
LiIo Discharge TVC 2500mV/s	Range from 3000-3750mV/s Default: 3100mV/s
LiFe Charge TVC 3600mV/s	Range from 3300-3800mV/s Default: 3600mV/s
LiFe Discharge TVC 2500 mV	Range from 2500-3300mV/s Default: 2500mV/s
NiMH Sensitivity Default	Range from 4-20mV
NiMH Discharge TVC 800mV	Range from 500 1000mV/s Default: 800mV/s
NiCd Sensitivity D.Peak 7mV	Range from 4-20mV Default: 7mV
NiCd Discharge TVC 1000mV	Range from 500-1000mV/s Default: 1000mV/s
Pb Charge TVC 2.4V/s	Range from 1500-2500mV/s Default: 2400mV/s
Pb Discharge TVC 1.5V/s	Range from 1000-1500mV/s Default: 1500mV/s


Menu Chart
PROGRAM SELECT
Extra Function
1> Meter LiXx
Battery Status
2> Meter LiXx
Battery IR
3> Balancer
LiPo/LiIo/LiFe/LiHV
4> Digital Power
5> Brush Motor
Driver
1)Meter LiXx (LiPo/LiIo/LiFe) battery status.
Press ENTER
Select Battery Type (LiPo/LiIo/LiFe)
1> Meter LiXx
Battery Status
Battery Select
LiPo
Press ENTER for 2 seconds
LiPo-6S 25.19V
Cacacity: 99%
STATUS
Cell1 Cell2 Cell3
4200 4202 4196 mV
4200 4195 4198 mV
Cell4 Cell5 Cell6
Battery voltage and capacity
Cell voltage
2)Meter LiXx (LiPo/LiIo/LiFe) battery internal resistance.
2> Meter LiXx
Battery IR
Press ENTER
C1: 9 12 10 mΩ
C4: 9 10 11 mΩ
3)LiXx (LiPo/LiIo/LiFe) Battery Balancer.
Select Battery Type (LiPo/LiIo/LiFe)
3> Balancer
LiPo/LiIo/LiFe
Press ENTER
Battery Select
LiPo
Press ENTER for 2 seconds
LiPo-6S 22.19V
Balancing...
STATUS
Cell1 Cell2 Cell3
3700 3710 3705 mV
3708 3700 3710 mV
Cell4 Cell5 Cell6
Battery voltage and capacity
Cell voltage
4)Digital Power
Set output voltage and current
4> Digital Power
Press ENTER
Digital Power
12.0V 2.0A
Press ENTER for 2 seconds
PWR 2.0A 12.0V
000:30 24W
Real time current/voltage/time/power
5)Brush Motor Driver
Set output voltage, current and time
5> Smart Battery
Charge
Press ENTER
SMART BATT 120Min
4.0A 17.4V
Press ENTER for 2 seconds
SMART 0.0A 14.12V
BATT 000:05 0.0W
Real time current/voltage/time/power

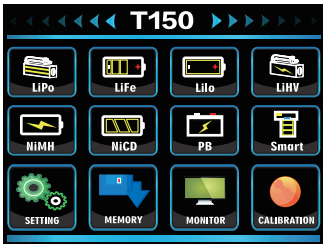
Menu Chart

There are 20 memories record the work of the charger. LS=latest record. Press +/- to shift the memories, press ENTER to revise, then press ENTER for 2 seconds to start working.

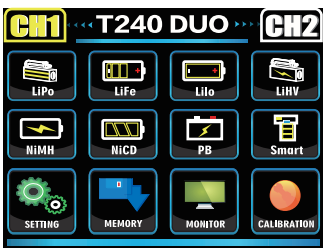
ERROR INFORMATION(C150/C240 DUO)

INPUT VOLTAGE TOO HIGH	Input voltage is higher than 18V, check the power supply, then restart the charger.
INPUT VOLTAGE TOO LOW	Input voltage is lower than the value of LOW INPUT VOLTAGE CUT- OFF, check the power supply, then restart the charger.
REVERSE POLARITY CHECK	Reverse polarity, check the connection between the charger and the battery, correct the connection, then restart the work.
BATTERY CHECK DISCONNECT	Battery disconnect, check the connection between the charger and the battery, then restart the work.
BATTERY CHECK OVER VOLTAGE	Total voltage of the battery is over the termination voltage control(TVC), check the battery and the TVC setting, then restart.
BATTERY CHECK LOWER VOLTAGE	Total voltage of the battery is lower than the termination voltage control(TVC), check the battery and the TVC setting, then restart.
BATTERY CHECK CELL COUNT ERROR	Cell count detected by the charge is different from the setting, check the battery cell count and reset the cell count of the work.
BATTERY CHECK OVER CELL VOLT	Cell voltage of the battery pack is over the termination voltage control(TVC), check the battery and the TVC setting, then restart.
BATTERY CHECK LOWER CELL VOLT	Cell voltage of the battery pack is lower the termination voltage control(TVC), check the battery and the TVC setting, then restart.
BATTERY CHECK FULL BATTERY	Full battery, no need to charge.
OVER Ext.TEMP CUTOFF	External temperature is higher than the setting value, cutoff.
OVER CAPACITY CUTOFF	Capacity is over than the setting value, cutoff.
SAFETY TIME OUT CUTOFF	Time is up to the setting value of Safety Timer, cutoff.

MAIN MENU INFO(T150,T240 DUO)



Main Menu



Main Menu

3.2 Inch Touch screen

security settings

Battery Management, Checking Battery Capacity, Voltage, Balancer

Memory: Save Six operation data

Calibrate Charger

NOTE: Please read carefully before doing anything !!

CH1 CH2 means CH-2 or CH-1 Swift image

Note: 1. If CH-2 has been not used, CH2 press image, return back to main menu, and use CH-2 operation

2. If CH-2 has been used, CH1 press image, enter into CH-2 operation directly

3. Two Channel are independent, and you can use different mode to operate

Example 1:Choose a set of LiPo battery charging,please follow the below steps:

Step1.Enter to Menu，Select Battery Type（Image1）。
Such as:LiPo,Enter into“SELECT WORK MODE”（Image2）。

Step2.Select “BAL CHARGE ″MODE ，And set the related parameters（Image2）

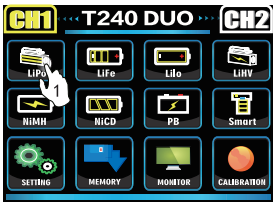


Image 1

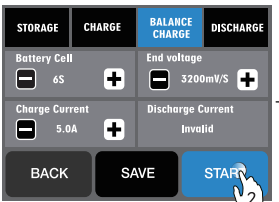


Image 2

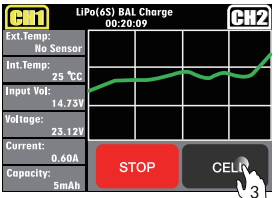


Image 3

MODE1 : STORAGE
MODE2: CHARGE
MODE3: BAL CHARGE
MODE4: DISCHARGE

Next step will be example at “MODE 3” (T240 DUO)

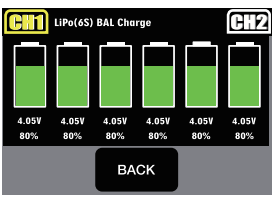


Image 4

Step 3: If you often use the same battery, please touch Save icon (Image 2) to enter into Save interface. Touch Unused icon to save the data and it will be easy for you to charge next time.

Note:8 groups data can be saved

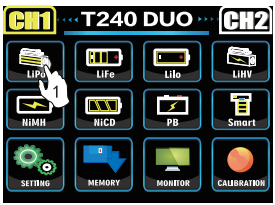


Image 1

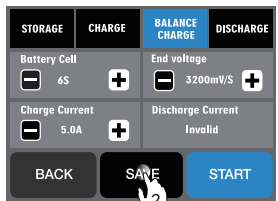


Image 2

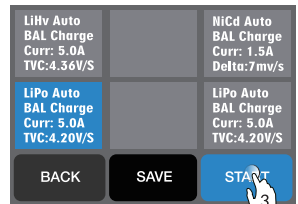


Image 5

Step 4.Select previous date to START (Image 5) to balance charging (Image 3), or touch BACK icon into previous step (Image 2),and touch START to balance charge.(Image6)

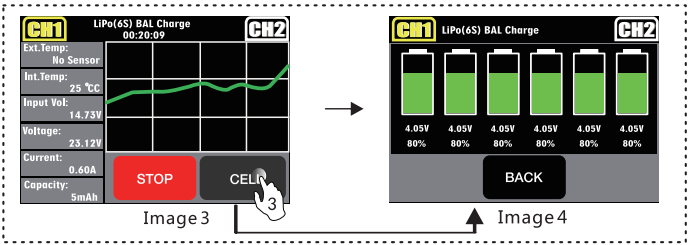


Image 6

NOTE: 1. Image 3 show the graphic photo for lipo chargger current and voltage.
2. Image 4 show each cell voltage and percent during lipo charging.
3. Image 3 show all setting data for lipo charging.

CH1 CH2 means CH-2 or CH-1 Swift image

Note: 1. If CH-2 has been not used, CH2 press image, return back to main menu, and use CH-2 operation

2. If CH-2 has been used, CH1 press image, enter into CH-2 operation directly

3. Two Channel are independent,and you can use different mode to operate

Example 2:Choose a set of NiMH battery charging,please follow the below steps:

Step1.Enter to Menu，Select Battery Type（Image8）。
Such as:NiMH,Enter into“SET PARAMETER FOR NiMH BATTERY”（Image9）。

Step2.Select “CHARGE ″MODE ，And set the related parameters（Image9)

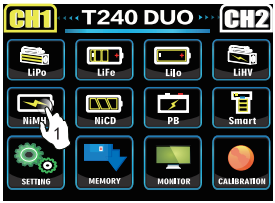


Image 8

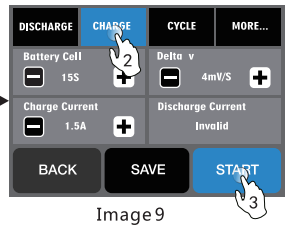


Image 9

MODE1: CYCLE
MODE2: CHARGE
MODE3: DISCHARGE

Next step will be example at “MODE 2”
(T240 DUO)

Note:8 groups data can be saved

Step 3: If you often use the same battery, please touch Save icon (Image 9) to enter into Save interface. Touch Unused icon to save the data and it will be easy for you to charge next time. (Image 10-11)

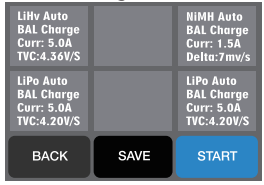


Image 10

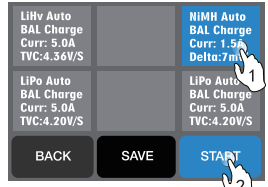


Image 11

Step 4. Select previous data to START(Image11)to Discharge (Image12),
Or touch BACK icon into previous step（Image9),and touch START to charge(Image12)

WORKING INTERFACE

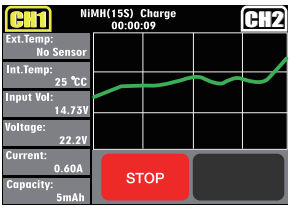


Image 12

NOTE：1. Image12 show the graphic photo for NiMH charge current and voltage
2. Image12 show all setting data for NiMH charging

CH1 CH2 means CH-2 or CH-1 Swift image
Note:1.If CH-2 has been not used, CH2 press image, return back to main menu, and use CH-2 operation
2.If CH-2 has been used, CH1 press image, enter into CH-2 operation directly
3.Two Channel are independent,and you can use different mode to operate

PROGRAM of PB(lead-Acid)(T150/T240 DUO)

Example 4:Choose a set of PB battery charging,please follow the below steps:

Step1.Enter to Menu，Select Battery Type（Image13）。
Such as:PB,Enter into“SET PARAMETER FOR PB BATTERY”（Image14）。

Step2.Select “CHARGE ”MODE ，And set the related parameters（Image14）

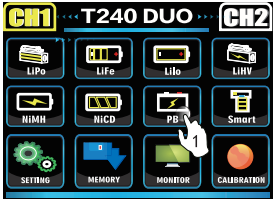


Image 13

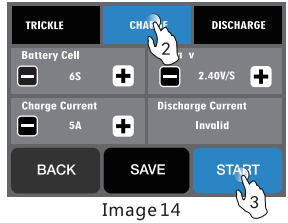


Image 14

MODE1: TRICKLE
MODE2: CHARGE
MODE3: DISCHARGE

Next step will be example at “MODE 2”

(T240 DUO)

Step 3: If you often use the same battery, please touch Save icon（Image 14）to enter into Save interface. Touch Unused icon to save the data and it will be easy for you to -charge next time.（Image 15-16）

Note:8 groups data can be saved

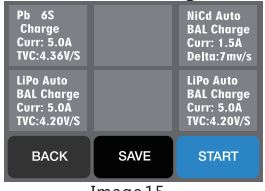


Image 15

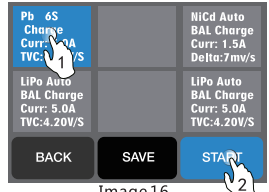


Image 16

Step 4. Select previous data to START(Image16)to balance charging(Image17), Or touch BACK icon into previous step（Image16),and touch START to balance charge(Image17)

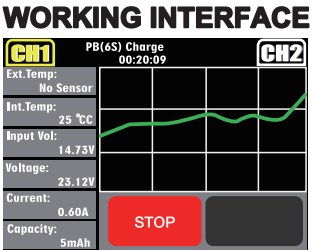


Image 17

NOTE：1. Image17 show the graphic photo for Pb charge current and voltage
2. Image17 show all setting data for Pb charging

CH1 CH2 means CH-2 or CH-1 Swift image

Note: 1. If CH-2 has been not used, CH2 press image, return back to main menu, and use CH-2 operation

2. If CH-2 has been used, CH1 press image, enter into CH-2 operation directly

3. Two Channel are independent,and you can use different mode to operate

PROGRAM OF SMART(T150/T240 DUO)

Example 3:Choose a set of SMART battery charging,please follow the below steps:

Step1.Enter to Menu， Select Battery Type（Image18）。
Such as:SMART,Enter into“SMART BATTERY POWER SUPPLY”（Image19）。

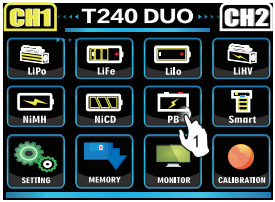


Image 18

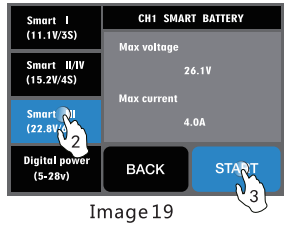


Image 19

MODE1:SMART I
MODE2:SMART II
MODE3:SMART III
MODE4:User set

Next step will be example at “MODE 4”

Step 2. Select START(Image19)to charging(Image20).

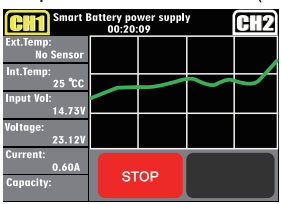


Image 20

NOTE：Image20 show the graphic photo for the current and voltage for the smart charge.

CH1 CH2 means CH-2 or CH-1 Swift image
Note:1. If CH-2 has been not used, CH2 press image, return back to main menu, and use CH-2 operation
2. If CH-2 has been used, CH1 press image, enter into CH-2 operation directly
3. Two Channel are independent ,and you can use different mode to operate

Step1.Enter to Menu， Select Setting（Image21),into set interface（Image22-24)。

Image 21

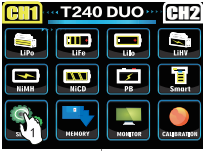


Image 22

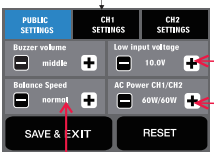


Image 23

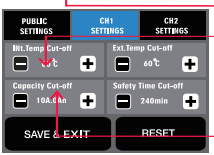
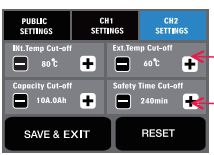


Image 24



Set the volume of the buzzer. Keep Beep default: **Middle,Low/Middle/High/Off optional**

In this menu, you can set the cutoff input voltage of the power supply of the charger to protect your power supply. The charger will cutoff working when input voltage lower than the setting value. Range from 11.0-18.0V, Default: 10.0V

In this menu, you can set the charge power limit to meet your power supply. The charge will work under the setting value.

Balance control of LiPo/LiIo/LiFe/LiHV, you can set the balance control to meet your demand. Normal/Fast/slow optional. Default: Normal

*Fast: Balance sPeed fastest, less accurate. * slow: Balance sPeed lowest, more accurate.

*Normal: balance speed and accurateness between Fast and slow

In this menu,you can set the cutoff Internal temperature to protect your battery. The charger will cutoff working when the Internal temperature is higher than the setting value range from 30-85℃,Default:80℃

In this menu, you can set the cutoff capacity to protect your battery. The charger will cutoff working when the capacity is more than the setting value. range from off - 65.0Ah, Default: 10.0Ah

In this menu, you can set the cutoff external temperature to protect your battery. The charger will cutoff working when the external temperature is higher than the setting value (anexternal temperature sensor is needed). range from 30-85℃,Default: 60℃

In this menu, you can set a safety time to protect your charger and battery. The charger will cutoff working when the safety time is up to the setting value. On/Off optional, range from 1 - 600 minutes. Default: 240 minutes

PROGRAM OF MONITOR/CALIBRATION (T150/T240 DUO)

ONE：Enter into Menu，select Monitor（Image25）and into BATTERY MONITOR（Image26）。

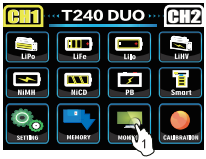


Image 25

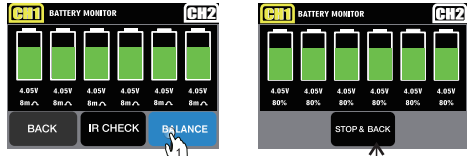


Image 27　　Image 28

Image 26

1)Meter LiXx(LiPo/LiIo/LiFe/LiHV)battery status.(Image27)
2)Meter LiXx(LiPo/LiIo/LiFe/LiHV)battery internal resistance.(Image27)
3)LiXx(LiPo/LiIo/LiFe/LiHV)battery balancer.(Image28)

CH1 CH2 means CH-2 or CH-1 Swift image
Note:1.If CH-2 has been not used, CH2 press image, return back to main menu, and use CH-2 operation
2.If CH-2 has been used, CH1 press image, enter into CH-2 operation directly
3.Two Channel are independent,and you can use different mode to operate

TWO：Step1.Enter to Menu，select Calibration（Image29），into"CHARGER CALIBRATION"(Image30)
Step2. select "RESET"（Image30)recover original setting（Image30）

Image 29

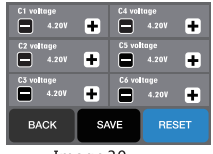


Image 30

Step1.Enter into Menu，select Memory（Image31）。

Step2:Select correct icon as exact battery typeimage32,and select “Modify” icon,(Image33).

Image 31

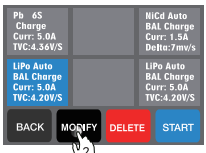


Image 32

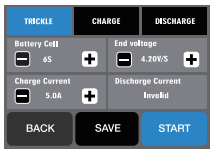


Image 33

Step1.Enter into Menu，select Memory（Image31）。

Step 2:Select “start” icon (Image 32),and select “ cell ” icon (Image 34)(Image 35)

Image 31

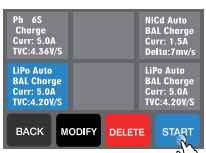


Image 32

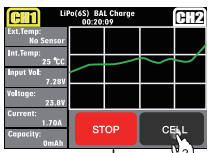
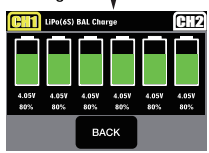


Image 34

Image 35



ERROR INFORMATION(T150/T240 DUO)

ERROR INFORMATION

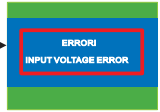


Image 34

<NOTE>
The charger will send out an alert and pop-up window if the battery packs' setting is incorrect (Image 38).

ERROR! INPUT VOLTAGE ERROR	Input voltage is higher than 30V, check the power supply, then restart the charger
ERROR! INPUT VOLTAGE TOO LOW	Input voltage is lower than the value of LOW INPUT VOLTAGE CUT- OFF, check the power supply, then restart the charger.
ERROR! REVERSE POLARITY CHECK	Reverse polarity, check the connection between the charger and the battery, correct the connection, then restart the work.
ERROR! BATTERY CHECK DISCONNECT	Battery disconnect, check the connection between the charger and the battery, then restart the work.
ERROR! BATTERY CHECK OVER VOLTAGE	Total voltage of the battery is over the termination voltage control(TVC), check the battery and the TVC setting, then restart.
ERROR! BATTERY CHECK LOWER VOLTAGE	Total voltage of the battery is lower than the termination voltage control(TVC), check the battery and the TVC setting, then restart.
ERROR! BATTERY CHECK CELL COUNT ERROR	Cell count detected by the charge is different from the setting, check the battery cell count and reset the cell count of the work.
ERROR! BATTERY CHECK OVER CELL VOLT	Cell voltage of the battery pack is over the termination voltage control(TVC), check the battery and the TVC setting, then restart.
ERROR! BATTERY CHECK LOWER CELL VOLT	Cell voltage of the battery pack is lower the termination voltage control(TVC), check the battery and the TVC setting, then restart.
ERROR! BATTERY CHECK FULL BATTERY	Full battery, no need to charge.
ERROR! OVER Ext.TEMP CUTOFF	External temperature is higher than the setting value, cutoff.
ERROR! OVER CAPACITY CUTOFF	Capacity is over than the setting value, cutoff.
ERROR! SAFETY TIME OUT CUTOFF	Time is up to the setting value of Safety Timer, cutoff.

WARRANTY

SHENZHEN HUITUO provide a period of one year product warranty from the date of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period we will repair or replace free of service, charge for products deemed defective due to those causes. This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification or as a result of failure to observe the use guideline in this manual.

LIABILITY EXCLUSION

This charger is designed and approved exclusively for charge the types of battery stated in this manual. SHENZHEN HUITUO do not accept any liability if the charger is used for any purpose other than that stated. We are unable to ensure you follow the instructions come with the charger, and we have no control over the methods you employ for using, operating and maintaining this device. For this reason we are obliged to deny the liability for loss, damage or costs which are incurred due to the incompetent or incorrect use and operation of this product, or which are connected with such operation in any way. Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of those products which were immediately and directly involved in the event in which the damage occurred

TEL:+86-755-81723747

Add:3rd Floor,NO.2 Building.Gangzai Industrial Park,Furong Industrial Area, ShaJing, BaoAn,Shenzhen,China

www.ht-rc.com

HTRC®

www.ht-rc.com

MADE IN CHINA