DYNC3005

Balance Socket Temp. USB Temp. Balance Socket

IJKLM

Temp. USB USB Temp.

# All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visi horizonhobby.com and click on the support tab for this product MEANING OF SPECIAL LANGUAGE

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product: NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury. WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of

**WARNING:** Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product INCLUDED ITEMS in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not attempt disassembly, use with incompatible components or augment product in any way without the approval of Horizon Hobby, LLC. This manual ontains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

given supervision or instruction concerning use of the appliance by a person responsible for their safety.

ply with the following warnings could result in product malfund trical issues, excessive heat, FIRE, and ultimately injury and pro

### • NEVER LEAVE CHARGING BATTERIES UNATTENDED. NEVER CHARGE BATTERIES OVERNIGHT.

- Never attempt to charge dead, damaged or wet battery packs.
- Never attempt to charge a battery pack containing different types of batteries. Never allow children under 14 years of age to charge battery packs.
- Never charge batteries in extremely hot or cold places or place in direct sunlight.
- Never charge a battery if the cable has been pinched or shorted.
- Never connect the charger if the power cable has been pinched or shorted. Never connect the charger to an automobile 12V battery while the vehicle is
- Never attempt to dismantle the charger or use a damaged charger.
- Never attach your charger to both an AC and a DC power source at the same
- Never connect the input jack (DC input) to AC power.
- Always use only rechargeable batteries designed for use with this type of
- Always inspect the battery before charging. · Always keep the battery away from any material that could be affected by

### Age Recommendation: Not for children under 14 years. This is not a toy.

NOTICE: This appliance is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been

- - Always connect the positive red leads (+) and negative black leads (-) correctly. Always disconnect the battery after charging, and let the charger cool between
    - Always charge in a well-ventilated area.
    - Always terminate all processes and contact Horizon Hobby if the product

Always end the charging process if the battery becomes hot to the touch or

starts to change form (swell) during the charge process.

Always ensure the battery you are charging meets the ons of this charger and that the charger settings are corrupt to the charger settings are corrupt to the charger settings are corrupt to the charger settings.

### (2) Banana plug to EC3™ battery connector (DYNC0066) AC power cord (one region—US, EU, AU or UK) (2) JST\_XH balance adapter (DYN5032)

## OPTIONAL ITEMS

Banana to Traxxas® insulated charge adapter: male (DYNC0054) Always monitor the charging area and have a fire extinguisher available at all
 Charger lead with receiver connector (DYNC0033)

Banana to Deans insulated charge adapter: male (DYNC0053) LiPo Charge Protection Bag, Small (DYN1400)

LiPo Charge Protection Bag, Large (DYN1405) Always connect the charge cable to the charger first, then connect the battery to avoid short circuit between the charge leads. Reverse the sequence when Temperature Sensor (DYN5033)

Input Voltage | 100-240V AC; 11-18V DC Charging Capability 1–6S Li-Po/Li-lon/Li-Fe;

1-10C Ni-Cd/Ni-MH; 2-24V Pb

Battery Capacities 50-10000 mAh

Charge Current | 0.01–10.0A (in 0.1A increments/200W max per channel Discharge Current | 0.01–5A (in 0.1A increments/200W max per channel)

Charging Mode Ni-Cd/Ni-MH: Peak; Li-Po/Li-lon/Li-Fe/Pb: CC/CV Protection | Short-circuit, over-current, reverse polarity, low input voltage, over-temperature

## GETTING STARTED

### **Using an AC Power Source:** 1. Ensure the charger is powered OFF.

- 2. Connect the AC power cord (D) to the AC power source. 3. Power ON the charger with the Power Switch (A).
- 4. When the charger is powered ON, a message will appear on the **LCD Touch** Screens (E.F).

## Using a DC Power Source:

- Connect the DC power cord to the charger DC Power Input Port (C)
- Connect the DC alligator clips to the DC power source. Power ON the charger with the Power Switch (A).
- 4. When the charger is powered ON, a message will appear on the **LCD Touch** Screens (E,F).

## Connecting the Battery to the Charger:

With charger powered on, select charging settings. Connect the battery to the charger.

Start battery charging

# CAUTION: Before charging, always ensure you have chosen the correct battery chemistry type for the battery you are charging.

PROGRAMMING QUICK GUIDE Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens.

2. Press the action at the bottom of the **LCD Touch Screen** to enter that menu.

. Press a parameter to highlight that parameter. Press the Up and Down Arrows to edit the parameter.

Press Select to save the parameter.

6. If there is more than one screen of parameters, press the top right corner of the LCD Touch Screen to scroll through the parameter screens.

## 7. Press **Back** to return to the main menu screens.

# 

### CAUTION: Only use 4.35V capable Li-Po batteries when using the Li-HV charge mode. Charging other Li-Po batteries in this mode can lead to property dam fire, or serious injury.

## 1 - SELF TEST AND PROGRAM SELECT SCREENS

When the charger is powered ON, there is a series of self tests and the screen will show the charger brand name and model number.



VOLTAGE MUST BE SET TO THE CORRECT VALUE BEFORE THE CHARGER IS POWERED ON.

CAUTION: Using a charge rate that is not compatible with the battery capacity may result in damage or malfunction of the charger or battery.

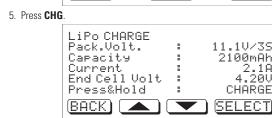
# Only Li-Po is shown in the following three sections. Li-Ion/Li-Fe/Li-HV menus differ ONLY in Cell and Pack Voltage values.

# 2 - LITHIUM (LI-PO/LI-FE/LI-ION/LI-HV) CHARGING • • • • • • • • • • • • • • • •

Connector (6)

2. Connect the battery connector to the device connector. 4. Press the Left and Right Arrows on the LCD Touch Screen to scroll through





6. Press a parameter to highlight that parameter.

- Press the **Up** and **Down Arrows** to edit the parameter.
- 8. Press **Select** to save the parameter.

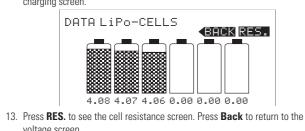
9. Once the parameters are at the desired settings, press and hold **CHARGE**. 10. The charger will check the battery and charger settings and charging will begin. The charger will beep and display the following screen:

Çaracity Current Volta9e Resistance |Peak Temp. No sens STOP

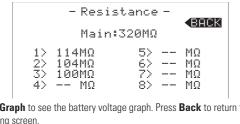
11. Press the arrow in the top right of the LCD Touch Screen to see the rest of the Charging information.

LiPo CHG Input Volt End Volt. Int Temp Safety Timer Capacity Lim STOP Unit (Graph)

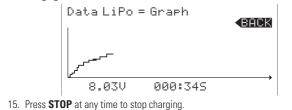
1. Connect the JST\_XH balance adapter to the **Balance Circuit Adapter Board** 12. Press **Unit** to see the voltages for each cell. Press **Back** to return to the charging screen. DATA LiPo-CELLS



voltage screen - Resistance -



14. Press Graph to see the battery voltage graph. Press Back to return to the charging screen



16. When charging is complete, the charger will sound a series of beeps and

| e following screen:  |  |
|--|--|
| NiMH DONE Input Volt Delta Peak Int Temp. Safety Timer Capacity Lim. BACK Cyc. | 001:155♥<br>14.8?V<br>8mV/C<br>60F<br>240min<br>3300mAh<br>Graph |
|  |  |

17. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Discharging information.

| LiPo DONE                   |                  | 010:305 |
|-----------------------------|------------------|---------|
| Input Vol                   |                  | 12.22   |
| End Volt.                   | :                | 12.60   |
| Int Temp                    | :                | 21°     |
| Safety Ti                   |                  | 240mi   |
| Capacity                    | Lim :            | 2100mA  |
| STOP                        | Unit             | Graph   |
| Disconnect the battery from | the charger      |         |
| risconnect the pattery from | i tile tilalyel. |         |

18. Di:

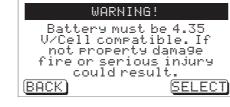
# 2A-LITHIUM HIGH VOLTAGE • • • • • • • • • • • • •



DCHG

the following **WARNING** screen appears. You must be sure you are using

1. Press the Left and Right Arrows on the LCD Touch Screen to scroll through



- 5. Follow Lithium (Li-Po/Li-Fe/Li-Ion/LI-HV) Charging, Dishcharging and Storage
- 6. Press **Back** to exit warning and choose another charging method.

# 3 - LITHIUM DISCHARGING • • • • • • • • • • • •

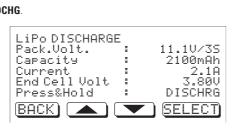
Connect the JST\_XH balance adapter to the Balance Circuit Adapter Board Connector (6)

High Voltage cells capable of being charged to 4.35 Volts.

- Connect the battery connector to the device connector.
- 4. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Li-Po/Li-lon/



Press DCHG.



- Press a parameter to highlight that parameter
- 7. Press the **Up** and **Down Arrows** to edit the parameter.
- 8. Press **Select** to save the parameter. 9. Once the parameters are at the desired settings, press and hold **DISCHRG**. 10. The charger will check the battery and charger settings and discharging will

| I WIII GIIGGK LIIG DULLGIY U | na charge   | i sottiligs alla alsoliare |
|------------------------------|-------------|----------------------------|
| charger will beep and dis    | splay the f | following screen:          |
| LiPo DCHG                    |             | 000:305₽                   |
| Capacity                     |             | 13mAh                      |
|                              | _           |                            |
| Current                      |             | 1.4A                       |
| Volta9e                      | <b>=</b>    | 11.39V                     |
| Resistance                   | <b>=</b>    | 369mΩ                      |
| Peak Temp.                   | 1           | No sens                    |
| STOP) III                    | oit)        | Gnaph                      |

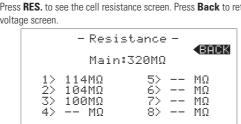
11. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of 17. Press

| ı |  |     |   |
|---|--|-----|---|
|   | LiPo DONE<br>Input Volt<br>End Volt.<br>Int Temp<br>Safety Timer<br>Capacity Lim | Per | 000:305♥<br>12.25V<br>11.40V<br>20°C<br>240min<br>2100mAh |
|   |  |     |   |
|   |  |     |   |

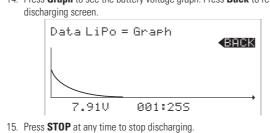
4. Press **Select** to continue to charging.

# 12. Press Unit to see the voltages for each cell. Press Back to return to the discharging screen DATA LiPo-CELLS ◆BACK RES.

13. Press **RES.** to see the cell resistance screen. Press **Back** to return to the



14. Press **Graph** to see the battery voltage graph. Press **Back** to return to the discharging screen.



16. When discharging is complete, the charger will sound a series of beeps and 11. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of

| spla | y the following scre        | en:                      |                          |                 |
|------|-----------------------------|--------------------------|--------------------------|-----------------|
|      | LiPo DONE                   |                          | 000:305♥                 |                 |
|      | Capacity                    | <b>=</b>                 | 13mAh                    |                 |
|      | Current                     | <b>:</b>                 | 1.4A                     |                 |
|      | Volta9e                     | <b>:</b>                 | 11.39V                   |                 |
|      | Resistance                  | 9 1                      | 369mΩ                    |                 |
|      | Peak Temp.                  |                          | No sens                  |                 |
|      | STOP                        | Unit                     | Graph                    |                 |
| ess  | the <b>arrow</b> in the top | o right of the <b>LC</b> | <b>D Touch Screen</b> to | see the rest of |

010:305₹

Capacity Lim STOP (Graph)

LiPo DONE

End Volt.

Safety Timer

Disconnect the battery from the charger.

## 4 - LITHIUM STORAGE CHARGING

- 1. Connect the JST\_XH balance adapter to the Balance Circuit Adapter **Board Connector (6)**
- Connect the battery connector to the device connector.

**A.** Power Switch

D. AC Power Cord

**B.** AC Power Input Port

**C.** DC Power Input Port

E. Charger 1- LCD Screen

F. Charger 2- LCD Screen

**G.** Charger 1- Power Output Ports **H.** Charger 1- Balance Board Port

J. Charger 1- Micro USB Port

**K.** 2.1A USB Power Output Port

**N.** Charger 2- Balance Board Port

**0.** Charger 2- Power Output Ports

L. Charger 2- Micro USB Port

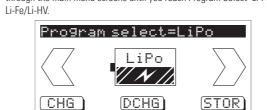
I. Charger 1- Temperature Sensor Port

M. Charger 2- Temperature Sensor Port

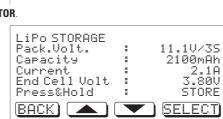
(Software updates ONLY; do not use for charging)

(Software updates ONLY; do not use for charging)

3. Connect the balance connector of the battery to the JST\_XH balance adapter. 4. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Li-Po/Li-lon/



5. Press STOR. LiPo STORAGE



- 6. Press a parameter to highlight that parameter.
- 7. Press the **Up** and **Down Arrows** to edit the parameter. 8. Press Select to save the parameter.
- 9. Once the parameters are at the desired settings, press and hold **STORE**. 10. The charger will check the battery and charger settings and storage charging will begin. The charger will beep and display the following screen:

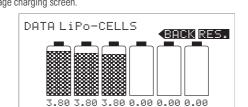


| <br>         |          |          |
|--------------|----------|----------|
| LiPo STORE   |          | 010:305₹ |
| Input Volt   | 1        | 12.22V   |
| End Volt.    | <b>=</b> | 12.60V   |
| Int Temp     | 1        | 21°C     |
| Safety Timer | 1        | 240min   |
| Capacity Lim | :        | 2100mAh  |
| STOP Ur      | nit      | Graph    |
|              |          |          |
|              |          |          |
|              |          |          |

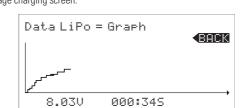
12. Press Unit to see the voltages for each cell. Press Back to return to the storage charging screen

Not to scale. Not all wiring shown.

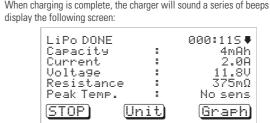
Not all connectors shown



13. Press **Graph** to see the battery voltage graph. Press **Back** to return to the storage charging screen



14. Press **STOP** at any time to stop charging. 15. When charging is complete, the charger will sound a series of beeps and



16. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of

| Jilaiyiii | g information. |      |          |
|-----------|----------------|------|----------|
|           | LiPo DONE      |      | 010:305√ |
|           | Input Volt     |      | 12.22    |
|           | End Volt.      |      | 12.60\   |
|           | Int Temp       |      | 21°0     |
|           | Safety Tim     |      | 240mir   |
|           | Capacity L     | im = | 2100mAk  |
| (         | STOP           | Unit | Graph    |
|           |                |      |          |

17. Disconnect the battery from the charger.



1. Connect the battery connector to the device connector. 2. Press the Left and Right Arrows on the LCD Touch Screen to scroll through



CHG Mode Delta Peak Press&Hold

BACK) 🔼 🔻 SELECT) 4. Press a parameter to highlight that parameter. 5. Press the **Up** and **Down Arrows** to edit the parameter. 6. Press **Select** to save the parameter.

Capacity

7. Once the parameters are at the desired settings, press and hold **CHARGE** 8. The charger will check the battery and charger settings and charging will begin. The charger will beep and display the following screen:

|   | NiMH CHG   |          | 000:095 |
|---|------------|----------|---------|
|   | Capacity   |          | 2mAh    |
|   | Current    |          | 1.86    |
|   | Volta9e    |          | 7.98U   |
|   | Resistance | :        | ****m[  |
|   | Peak Temp. | <b>=</b> | No sens |
| ( | STOP       |          | Graph   |
|   |            | ( LOD T  |         |

9. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of

| Charging information.  |  |
|--|--|
| NiMH CHG Input Volt : Delta Peak : Int Temp : Safety Timer : Capacity Limit:  STOP | 000:095<br>12.24<br>1.8<br>21°<br>240mi<br>2100mA<br><b>Gra</b> ph |

# Only Ni-MH is shown in the following three sections.

5 - NICKEL (NI-MH/NI-CD) CHARGING • • • • • • • • • • • • • •

10. Press **Graph** to see the battery voltage graph. Press **Back** to return to the the main menu screens until you reach Program Select=Ni-MH/Ni-Cd. Data NiMH = Graph

> 8.03V 000:289

> > Capacity

Resistance

Volta9e

the Charging information.

11. Press **STOP** at any time to stop charging. 12. When charging is complete, the charger will sound a series of beeps and display the following screen: NiMH DONE 001:155♥

0.0A

No sens

BACK Graph Cucle 13. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of

| NiMH DONE     |    | 000:099 |
|---------------|----|---------|
| Input Volt    | =  | 12.2    |
| Delta Peak    | =  | 1.      |
| Int Temp      | =  | 21      |
| Safety Timer  | 8  | 240m    |
| Capacity Limi | t: | 2100mi  |
| (STOP)        |    | Grap    |

Disconnect the battery from the charger.

1. Connect the battery connector to the device connector. 2. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through

the main menu screens until you reach Program Select=Ni-MH/Ni-Cd Program select=NiMH

Press DCHG.

NIMH DISCHARGE End Volt Capacity Press&Hold DISCHRG BACK) (🔼 ) (SELECT)

4. Press a parameter to highlight that parameter.

Press the Up and Down Arrows to edit the parameter.

charger will beep and display the following screen:

6. Press **Select** to save the parameter.

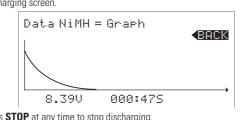
7. Once the parameters are at the desired settings, press and hold **DISCHRG** 8. The charger will check the battery and charger settings and discharging will begin. The

> NiMH DCHG 000:345₹ Capacity 8.43U Volta9e \*\*\*\*M() Resistance Peak Temp. No sens STOP Graph

9. Press the arrow in the top right of the LCD Touch Screen to see the rest of the Discharging information.

> NiMH DCHG 000:095₹ End Volt Safety Timer 2100mAh Capacity Limit: Graph Press DCHG

10. Press **Graph** to see the battery voltage graph. Press **Back** to return to the



12. When discharging is complete, the charger will sound a series of beeps and 7. Once the parameters are at the desired settings, press and hold **DISCHRG** 

display the following screen: NIMH DONE Capacity Volta9e Resistance Peak Temp. BACK Graph

13. Press the arrow in the top right of the LCD Touch Screen to see the rest of the Charging information.

000:095₹ End Volt 12.24V Safety Timer Capacity Limit: 2100mAh (Graph)

14. Disconnect the battery from the charger

Connect the battery connector to the device connector.

Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Ni-MH/



Press&Hold

Capacity DCHG Curr DCHG End Volt BACK) (🔼 ) 💟 SELECT 4. Press a parameter to highlight that parameter.

Press the **Up** and **Down Arrows** to edit the parameter.

Press **Select** to save the parameter.

7. Press the top right of the LCD Touch Screen to get to the next set of

8. Once the parameters are at the desired settings, press and hold CYCLE. 9. The charger will check the battery and charger settings and cycle charging will begin. The charger will beep and display the following screen:

NiMH CYCLE 000:065 Capacity Volta9e Resistance Peak Temp. No sens Graph

10. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Cycle information.

NiMH DONE 001:155₹ Input Volt 8mV/ 60F Int Temp. Safety Timer 240min 3300mAh Capacity Lim. (Cycle) (Graph)

8 - PB CHARGING • • • • • • • • • • • • • •

2 Press the Left and Right Arrows on the LCD Touch Screen to scroll through

(DCHG)

0.1A

CHARGE

-Check-

Set: 6F

Read: 5P

START

Program select=Pb

1. Connect the battery connector to the battery adapter cable.

the main menu screens until you reach Program Select=Pb.

CHG

Ph CHARGE

Capacity

4. Press a parameter to highlight that parameter.

-Connect-

Input - - - OK

BATT. • • • • OK

6. Press **Select** to save the parameter.

following screen:

Current

Pack. Volt.

Press&Hold

Press the Up and Down Arrows to edit the parameter.

BACK) 🔼 🔻

7. Once the parameters are at the desired settings, press and hold **CHARGE**.

Pb Charge Confirm

8. The charger will check the battery and charger settings and display the

Press CHG.

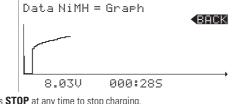
11. Press **STOP** at any time to stop discharging

001:155♥ 53mAh No sens

11. Press **CYCLE** to see the voltage and amperage applied to each cycle.

Data NiMH = Cycle 1/1 00.00Va 00000mAh 00.00Vp (Back Down 12. Press **Graph** to see the battery voltage graph. Press **Back** to return to the

charging screer Data NiMH = Graph



13. Press **STOP** at any time to stop charging.

14. When cycle charging is complete, the charger will sound a series of beeps and 4. Press the **Up** and **Down Arrows** to edit the parameter. display the following screen:

NiMH DONE 001:155,₹ Capacity Current Volta9e Resistance Peak Temp. No sens BACK) Graph

15. Press the arrow in the top right of the LCD Touch Screen to see the rest of the Charging information

> 001:155₹ NiMH DONE Input Volt 14.8?V Int Temp. 601 Safety Timer 240min Capacity Lim. BACK) Graph

16. Disconnect the battery from the charger.

Capacity

Current

Resistance

Peak Temp.

Volta9e

STOP)

CAUTION: The Pb charge program menus are to be used ONLY for the charging and discharging of Pb battery packs. Charging other battery types using the

10 - SETUP • • • • • • • • • • • • • • •

1. Press the Left and Right Arrows on the LCD Touch Screen to scroll through

9 - PB DISCHARGING • • • • • • • • • • • • •

0.1A

DISCHRG

-Check-

Read: 5P

**START** 

Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll

BACK (A) SELECT

through the main menu screens until you reach Program Select=Pb

Program select=Pb

Connect the battery connector to the battery adapter cable.

CHG ]

Pb DISCHARGE

Pack. Volt.

Press&Hold

Press the Up and Down Arrows to edit the parameter.

8. The charger will check the battery and charger settings and display the

Pb DCHG Confirm

Capacity

4. Press a parameter to highlight that parameter

-Connect-

[nput••• • OK

BATT.•••• OK

6. Press **Select** to save the parameter

9. Press **START**. The charger will beep and display the following screen:

10. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of

= Graph

000:325

13. When discharging is complete, the charger will sound a series of beeps and

11. Press **Graph** to see the battery voltage graph. Press **Back** to return to the

Capacity

Volta9e

Resistance

Peak Temp.

Data Pb

11.54V

12. Press STOP at any time to stop discharging.

display the following screen:

Capacity

Resistance

Peak Temp.

Volta9e

BACK)

Disconnect the battery from the charge

Temperature | °C/°F

Input Power Low Voltage Cutoff | 10.0V–17.5V

Temperature Cutoff | 68–176°F (20–80°C)

Input Limited | 1.0-16.5A

DCHG Mode | CC-CV

Balance Voltage | 0.01V-0.03V

Balance Force | -0.01-7.00V

MH/Cd Trickle | 50mA-200mA

Safety Timer | 1–255 minutes

Back Light | OFF-100%

Melody 1–5

Button Sound ON/OFF

Buzzer Sound ON/OFF

Buzzer Volume | 0–100%

Version 1.0

Username | Enter your name here

Factory Reset Press and hold FCTY RST to return the charger to default factory settings.

the Charging information

Current

(STOP)

Discharging screen

000:195₹

\*\*\*\*m(

No sens

Graph

000:195♥

11.60V

\*\*\*\*m0

No sens

(Graph

Program select=Setup (SETUP) 2. Press **SETUP**. USER SETUP [1/4]\ 60°Ĉ Temp Cutt-Off 10.0V Input Low Volt Input Limited : DCHG Mode : Auto

the main menu screens until you reach Program Select=Setup

3. Press a parameter to highlight that parameter

USER SETUP

5. Press **Select** to save the parameter

6. Press the top right of the LCD Touch Screen to get to the next set of parameters.

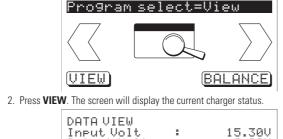
BACK SELECT

[2/4]₹

| Balance Volt Balance Force Full Force MH/Cd Trickle Safety Timer BACK   | <b>=</b> | Auto<br>Auto<br>Auto<br>OFF<br>240min<br>SELECT |
|---|----------|---|
| USER SETUP Back Light Melody Button Sound Buzzer Sound Buzzer Vol  BACK | :        | [3/4]<br>100/4<br>0N<br>ON<br>100%<br>SELECT    |
| USER SETUP<br>< ENTER_<br>Version#                                      | USER_    | [4/4]♥<br>NAME ><br>1.00                        |
| Press&Hold  | -÷       | FCTY_RST  |

BACK SELECT 1) - VIEW • • • • • • • • • • • • • • • •

Press the Left and Right Arrows on the LCD Touch Screen to scroll through 3. Press CELLS to view the connected lithium battery's individual cell voltage. the main menu screens until you reach Program Select=View



10. Press the arrow in the top right of the LCD Touch Screen to see the rest of the charging info 11. Press **Graph** to see the battery voltage graph. Press **Back** to return to the

000:165₹

14.69Ų

\*\*\*\*mQ

No sens

(Graph)

9. Press **START**. The charger will beep and display the following screen:

charging screen. Data Pb = Graph 000:125 14.68V

12. Press **STOP** at any time to stop charging. 13. When charging is complete, the charger will sound a series of beeps and

display the following screen: Ph DONE 000:195♥ Capacity 11.60U Uoltage Resistance \*\*\*\*MQ Peak Temp. No sens BACK (Graph)

14. Disconnect the battery from the charger.

29°0 No sens

Output Volt Int Temp. Ext Temp. Resistance (CELLS) BACK)

12 - BALANCE • • • • • • • • • • • • • • 1. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through 5. Press **STOP** at any time to stop balancing. the main menu screens until you reach Program Select=View.

Program select=View ' (VIEW) BALANCE

Press BALANCE. 3. Press the type of battery you want to balance: Li-Po/Li-lon/Li-Fe. 4. Press **START**. The charger will begin balancing the cells.

BATTERY

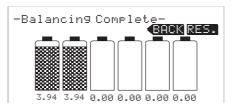
Created 02/2017 | 48546.1

DATA View-CELLS

0.00 0.00 0.00 0.00 0.00 0.00

BACK RES.

6. When balancing is complete, the charger will beep and display the following



13 - MEMORY • • • • • • • • • • • • • • • •

1. Press the Left and Right Arrows on the LCD Touch Screen to scroll through 10. Choose an empty memory profile and press it. the main menu screens until you reach the battery program you would like to USER SETUP save: Program Select=Li-Po/Li-Fe/Li-Ion/Ni-MH/Ni-Cd/Pb

2. Press the action at the bottom of the LCD Touch Screen to enter that menu.

6. If there is more than one screen of parameters, press the top right corner of

the **LCD Touch Screen** to scroll through the parameter screens.

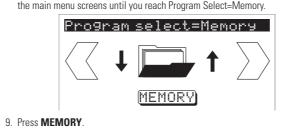
NULL M02 NULL M03 NULL M04 NULL 3. Press a parameter to highlight that parameter. 4. Press the Up and Down Arrows to edit the parameter. M05 NULL 5. Press **Select** to save the parameter

BACK) DEL LOAD SAVE) 11. Press **SAVE**. The charging parameters you just entered will be saved in that memory profile. 7. Once the parameters are at the desired settings, press **Back** to return to the

[1/4]

12. To use a memory profile, press it, then press LOAD. 8. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through

13. To delete a memory profile, press it, then hold **DEL**. 14. Press the top right of the LCD Touch Screen to scroll through all 20 memory



### 14 - USB DEVICE CHARGING • • • • • • • • • • • • • • 14. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of

The charger has the capability to charge any USB-compatible device with the 2.1A USB Power Output Port (F). To use the charging function, simply connect a compatible charging device or cord into the charge port while the charger is powered ON. The charger provides up to 2.1A current at 5V DC.

15 - TROUBLESHOOTING • • • • • • • • • • • • • • •

During charger operation, circuits monitor battery and charger functions. If the following messages show on the charger's LCD screen, make the recommended responses. If the message continues after you respond as recommended, contact your nearest Horizon Hobby customer service center for assistance.

REVERSE POLARITY Make sure each connection polarity is correct between the power source and the charger, then between the charger and the battery.

| PROCESS INTERRUPTED  | Make sure the power connections are correct for charging.   |
|----------------------|---|
| OUTPUT SHORT CIRCUIT | Make sure there are no short circuits between the poles of the battery or the battery and the charger. Replace damaged wires.                                       |
| INPUT VOLTAGE ERROR  | Input voltage to the charger fell below the default or adjusted input voltage setting. Make sure the power source for the charger provides correct input voltage.   |
| CHARGER FAILURE      | Charger electronics require repair.   |
| BATTERY LOW VOLTAGE  | Battery voltage is lower than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.                  |
| BATTERY HIGH VOLTAGE | Battery voltage is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.                 |
| CELL LOW VOLTAGE     | Cell voltage is lower than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.                     |
| CELL HIGH VOLTAGE    | Cell voltage is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.                    |
| CELL CONNECT ERROR   | Make sure the balance connection is correct for charging.   |
| CHARGER OVERHEATING  | Charger temperature is too high. Power OFF the charger and let it cool.   |
| OVER POWER           | Input voltage to the charger exceeded the default or adjusted input voltage setting. Make sure the power source for the charger provides the correct input voltage. |
| MAX CURRENT          | Current is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.                         |
| SAFETY TIMER         | Maximum safe time limit has been reached.   |
| MAX CAPACITY         | Maximum capacity limit has been reached.  |
| MAX EXT. TEMP        | External temperature is too high. Let charger and battery cool.   |

## DYNAMITE 5-YEAR US LIMITED CHARGER WARRANTY INFORMATION

Horizon Hobby is so confident about the quality of our Dynamite chargers we offer a 5-year replacement plan on all of our Dynamite® Prophet™ and Passport™ chargers. Our 5-year replacement plan requires proof of purchase (copy of the receipt), and we do reserve the right to deny replacement to any abusers of our plan. See below for full

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to details. Contact the appropriate Horizon Service Department for instructions on warranty claims.

5-YEAR US LIMITED WARRANTY

IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED summary of the problem. A copy of your original sales receipt must be included for WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR warranty consideration. Be sure your name, address, and RMA number are clearly A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE written on the outside of the shipping carton.

OF THE PURCHASER'S INTENDED USE. Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that of Horizon. Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by NOTICE: Do not ship LiPo batteries to Horizon. If you have any issue with a discretion of Horizon Proof of nurchase is required for all warranty claims. SERVICE your original sales receipt verifying the proof-of-purchase date. OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S Non-Warranty Service - Should your service not be covered by warranty, service SOLE AND EXCLUSIVE REMEDY.

shall be assumed nor accepted for any resulting damage or injury. By the act of use, www.horizonhobby.com/content/\_service-center\_render-service-center. setup or assembly, the user accepts all resulting liability. If you as the purchaser or ATTENTION: Horizon service is limited to Product compliant in the country to the place of purchase.

principals). This warranty gives you specific legal rights, and you may also have period of 60 days from notification, after which it will be discarded. other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.

WARRANTY SERVICES

Questions, Assistance, and Services - Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please visit our website at www.horizonhobby.com, submit a Product Support Inquiry at https:// horizonhobby.guickbase.com/db/bghi7ev8c?a=GenNewRecord, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative

Warranty Period - Exclusive Warranty - Horizon Hobby, LLC., ("Horizon") warrants is compliant in the country you live and use the Product in, please use the Horizon that the included Dynamite Prophet, or Passport charger ("Product") will be free from Online Service Request submission process found on our website or call Horizon to defects in materials and workmanship for a period of five (5) years after the date of obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are What is Not Covered - This warranty is not transferable and does not cover not designed to withstand the rigors of shipping without additional protection. Ship (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, via a carrier that provides tracking and insurance for lost or damaged parcels, as negligence, commercial use, or due to improper use, installation, operation Horizon is not responsible for merchandise until it arrives and is accepted at our or maintenance, (iii) modification of or to any part of the Product, (iv) attempted facility. An Online Service Request is available at http://www.horizonhobby.com/ service by anyone other than a Horizon Hobby authorized service center, (v) Product content/\_service-center\_render-service-center. If you do not have internet access, not purchased from an authorized Horizon dealer. (vi) Product not compliant with please contact Horizon Product Support to obtain a RMA number along with applicable technical regulations, or (vii) use that violates any applicable laws, rules, instructions for submitting your product for service. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER number where you can be reached during business hours. When sending product into WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL Horizon, please include your RMA number, a list of the included items, and a brief

Inspection or Services - If this Product needs to be inspected or serviced and

HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion

Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) LiPo battery, please contact the appropriate Horizon Product Support office. involved in a warranty claim. Service or replacement decisions are at the sole Warranty Requirements - For Warranty consideration, you must include

will be completed and payment will be required without notification or estimate Limitation of Liability - HORIZON SHALL NOT BE LIABLE FOR SPECIAL INDIRECT, of the expense unless the expense exceeds 50% of the retail purchase cost. By INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION submitting the item for service you are agreeing to payment of the service without OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM notification. Service estimates are available upon request. You must include this IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR request with your item submitted for service. Non-warranty service estimates will be ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE billed a minimum of ½ hour of labor. In addition you will be billed for return freight. POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, exceed the individual price of the Product on which liability is asserted. As Horizon American Express, and Discover cards. By submitting any item to Horizon for service, has no control over use, setup, final assembly, modification or misuse, no liability, you are agreeing to Horizon's Terms and Conditions found on our website http://

user are not prepared to accept the liability associated with the use of the Product, of use and ownership. If received, a non-compliant Product will not be purchaser is advised to return the Product immediately in new and unused condition serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice Law - These terms are governed by Illinois law (without regard to conflict of law and at the sender's expense. Horizon will hold non-compliant Product for a

### NON-US LIMITED WARRANTY

Inspection or Services - If this Product needs to be inspected or serviced and What this Warranty Covers - Horizon Hobby, LLC ("Horizon") warrants to the is compliant in the country you live and use the Product in, please use the Horizon original purchaser that the product purchased (the "Product") will be free from Online Service Request submission process found on our website or call Horizon to defects in materials and workmanship at the date of purchase.

OF THE PURCHASER'S INTENDED USE.

PURCHASER'S SOLE AND EXCLUSIVE REMEDY. Limitation of Liability - HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, Non-Warranty Service - Should your service not be covered by warranty, service INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION will be completed and payment will be required without notification or estimate OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM of the expense unless the expense exceeds 50% of the retail purchase cost. By IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR submitting the item for service you are agreeing to payment of the service without ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE notification. Service estimates are available upon request. You must include this POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon request with your item submitted for service. Non-warranty service estimates will be exceed the individual price of the Product on which liability is asserted. As Horizon billed a minimum of ½ hour of labor. In addition you will be billed for return freight. has no control over use, setup, final assembly, modification or misuse, no liability Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, shall be assumed nor accepted for any resulting damage or injury. By the act of use, American Express, and Discover cards. By submitting any item to Horizon for service, setup or assembly, the user accepts all resulting liability. If you as the purchaser or you are agreeing to Horizon's Terms and Conditions found on our website http:// user are not prepared to accept the liability associated with the use of the Product, www.horizonhobby.com/content/\_service-center\_render-service-center. purchaser is advised to return the Product immediately in new and unused condition ATTENTION: Horizon service is limited to Product compliant in the country to the place of purchase.

modify this warranty at any time without notice. WARRANTY SERVICES

Ouestions Assistance and Services - our local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please visit our website at www.horizonhobby.com, submit a Product Support Inquiry at https:// orizonhobby.quickbase.com/db/bghi7ev8c?a=GenNewRecord, or call the toll free elephone number referenced in the Warranty and Service Contact Information ection to speak with a Product Support representative

obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely

What is Not Covered - This warranty is not transferable and does not cover (i) cosmetic using a shipping carton. Please note that original boxes may be included, but are damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, not designed to withstand the rigors of shipping without additional protection. Ship commercial use, or due to improper use, installation, operation or maintenance, (iii) via a carrier that provides tracking and insurance for lost or damaged parcels, as modification of or to any part of the Product, (iv) attempted service by anyone other Horizon is not responsible for merchandise until it arrives and is accepted at our than a Horizon Hobby authorized service center, (v) Product not purchased from an facility. An Online Service Request is available at http://www.horizonhobby.com/ authorized Horizon dealer, or (vi) Product not compliant with applicable technical content/\_service-center\_render-service-center. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER instructions for submitting your product for service. When calling Horizon, you will WARRANTY OR REPRESENTATION, AND HERBY DISCLAIMS ANY AND ALL be asked to provide your complete name, street address, email address and phone IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED number where you can be reached during business hours. When sending product into WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR Horizon, please include your RMA number, a list of the included items, and a brief A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE summary of the problem. A copy of your original sales receipt must be included for HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS warranty consideration. Be sure your name, address, and RMA number are clearly

written on the outside of the shipping carton Purchaser's Remedy - Horizon's sole obligation and purchaser's sole and exclusive NOTICE: Do not ship LiPo batteries to Horizon. If you have any issue with a remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any LiPo battery, please contact the appropriate Horizon Product Support office. Product determined by Horizon to be defective. Horizon reserves the right to inspect Warranty Requirements - For Warranty consideration, you must include any and all Product(s) involved in a warranty claim. Service or replacement decisions your original sales receipt verifying the proof-of-purchase date. Provided are at the sole discretion of Horizon. Proof of purchase is required for all warranty warranty conditions have been met, your Product will be serviced or claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

of use and ownership. If received, a non-compliant Product will not be Law - These terms are governed by Illinois law (without regard to conflict of law serviced. Further, the sender will be responsible for arranging return principals). This warranty gives you specific legal rights, and you may also have shipment of the un-serviced Product, through a carrier of the sender's choice other rights which vary from state to state. Horizon reserves the right to change or and at the sender's expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded.

### VARRANTY AND SERVICE CONTACT INFORMATION

| Horizon Service Center (Repairs and Repair Requests)                                    | servicecenter.horizonhobby.com/RequestForm/   | 4105 Fieldstone Rd<br>Champaign, Illinois, 61822 USA  |
|---|---|---|
| United States of America  Horizon Product Support (Product Technical Assistance)  Sales | productsupport@horizonhobby.com.  |   |
|   | 877-504-0233  |   |
|   | websales@horizonhobby.com   |   |
|   | 800-338-4639  |   |
| EU Horizon Technischer Service Sales: Horizon Hobby GmbH                                | service@horizonhobby.de   | Hanskampring 9<br>D 22885 Barsbüttel, Germany   |
|   | +49 (0) 4121 2655 100   |   |
|   | (Repairs and Repair Requests)  Horizon Product Support (Product Technical Assistance)  Sales  Horizon Technischer Service | (Repairs and Repair Requests)  Horizon Product Support (Product Technical Assistance)  Sales  Horizon Technischer Service  servicecenter.horizonhobby.com/RequestForm/ productsupport@horizonhobby.com. 877-504-0233 websales@horizonhobby.com 800-338-4639 service@horizonhobby.de |

**EU Compliance Statement:** Horizon Hobby, LLC hereby declares that this product is in compliance with the essential requirements and other relevant rovisions of the EMC and LVD Directives.

copy of the EU Declaration of Conformity is available online at: ttp://www.horizonhobby.com/content/support-render-compliance

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a design nated collections point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects hu nan health and the environment. For more information about where you can drop off you

disposal service or where you purchased the product.

waste equipment for recycling, please contact your local city office, your household waste

Instructions for disposal of WEEE by users in the European Union

Contact Information Address



## **FCC INFORMATION**

provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

