

Vision Peak™ 2

AC/DC Peak Detection Charger

INSTRUCTION MANUAL



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USA

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www.dynamiterc.com



NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, Inc. For up-to-date product literature, visit www.horizonhobby.com/ProdInfo/Files/dyn4033-manual.pdf.

MEANING OF SPECIAL LANGUAGE

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this charger:

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a small or null 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 likely probability of physical property damage AND may lead to a dangerous condition or cause death or serious injury to the user, OR procedures, which if not followed, create the high probability of superficial injury.

WARNING

Read the **ENTIRE** instruction manual to become familiar with the features of the charger before operating. Never leave the charger unattended during use. Failure to operate the charger can cause damage to the charger, battery, personal property or cause serious injury.

SAFETY WARNINGS AND PRECAUTIONS

Failure to exercise caution while using this product and comply with the following warnings could result in product malfunction, electrical issues, excessive heat, FIRE, and ultimately injury and property damage.


- Read all safety precautions and literature prior to use of this product.
- Never leave the battery and charger unattended during use.
- Never attempt to dismantle the charger.
- Never attach your charger to both an AC and DC power source at the same time.
- Never connect the charger to an automobile 12V battery while the vehicle is running.
- Never reverse the positive and negative terminals. Wrong connection will damage the battery and may cause damage to the charger.
- Never allow minors to charge battery packs without adult supervision.
- Never drop charger or batteries.
- Never attempt to charge dead or damaged batteries.
- Never attempt to charge a battery pack containing different types of batteries.
- Never charge a battery if the cable has been pinched or shorted.
- Never allow batteries or battery packs to come into contact with moisture at any time.
- Never charge batteries in extremely hot or cold places (recommended between 50–80 °F) or place in direct sunlight.
- Never connect the input jack (DC input) to AC power.
- Always use only rechargeable batteries. This charger cannot charge batteries such as “heavy duty,” “Alkaline battery,” or “Mercury battery.”

- Always connect the positive red lead (+) and negative black lead (-) terminals of the battery to the charger terminals correctly.
- Always disconnect the battery after charging, and let the charger cool between charges.
- Always inspect the battery before charging.
- Always terminate all processes and contact Horizon Hobby if the product malfunctions.
- Always keep batteries and charger away from any material that could be affected by heat (such as ceramic and tile), as they can get hot.
- Always monitor the area, use a fire alarm and have a fire extinguisher available at all times.
- Always ensure program settings are correct to prevent battery damage or fire.
- Always make sure you know the specifications of the battery to be charged or discharged to ensure it meets the requirements of this charger. If the program is set up incorrectly, the battery and charger may be damaged. Improper settings can cause the battery to become overcharged potentially leading to fire or explosion.
- 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 disconnecting.
- Never connect more than one battery pack to this charger at a time.
- Always ensure DC input is 12V.
- Always constantly monitor the temperature of the battery pack while charging.
- Always end the charging process if the charger or battery becomes hot to the touch or starts to change form (swell) during the charge process.

This is a sophisticated hobby product and NOT a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product 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. This manual contains 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 injury.

FEATURES

- Selectable 1-, 2- and 4-amp charge rates
- Heavy-duty 12V DC input alligator clips
- 110V AC or 12V DC
- Tamiya-style output (battery) connector
- LED charge level indicators
- Voltmeter jacks
- Peak detection circuitry
- Receiver pack charge lead adapter
- Auto-trickle charge
- Limited 5-year warranty
- Charges 4- to 7-cell Ni-Cd and Ni-MH battery packs

 CAUTION: Attempting to charge batteries different than those specified in this manual can result in excessive heat and other related product malfunctions, which can lead to user injury or property damage. Please contact Horizon Hobby or an authorized retailer with compatibility questions.

SUPPLYING POWER TO THE CHARGER

This charger can be powered by connecting it to a 12V DC power source, such as a 12V sealed battery (HAN102) or an automobile battery.

⚠ CAUTION: If you choose to power your charger with an automobile battery, never do so with the automobile running as fluctuation in power can cause product malfunction and possibly injury.

⚠ CAUTION: Never connect the AC and DC input cords to an active power source at the same time. This will void the warranty, cause product damage and possibly injure the user.

AC Power

To power the Vision Peak 2 AC Charger, connect the AC power cord into a standard 110V wall outlet.

NOTICE: Always consult 12V battery collateral materials or Horizon Hobby before using with sources other than standard AC wall outlet.

DC Power

Attach the red (positive) alligator clip to the red (positive) terminal on your 12V DC power source. Next, attach the black (negative) alligator clip to the black (negative) terminal.

⚠ WARNING: Always make sure that you follow proper polarities at all times or electrical shock will occur.

Charging 6/7-Cell Ni-Cd or Ni-MH Car Packs

1. Connect the charger to an input power source as described previously.
2. Connect the battery to the charger.
3. Select the number of cells in the pack you are going to charge.

Note: If the number of cells that has been selected does not match up with the actual cells in the pack or has a damaged cell, the charger will stop charging, and the LEDs will blink.

4. Select the charge rate by pushing the Start/Select button until the LED indicates the correct charge rate. Once the LED is solid, the charger is charging.
5. Watch the LED continue to climb until all lights flash, indicating the battery is fully charged.

⚠ WARNING: If at any time during the charge process the battery pack(s) become hot (over 140 °F), unplug the battery immediately and discontinue the charge process.

Charging 4/5-Cell Ni-Cd or Ni-MH Receiver Packs

1. Connect the charger to an input power source as described previously.
2. Use the included Tamiya-style connector to receiver adapter to connect the battery to the charger.
3. Select the number of cells in the pack you are going to charge.

Note: If the number of cells selected does not match up with the actual cells in the pack or has a damaged cell, the charger will stop charging, and the LEDs will blink.

4. Select the charge rate by pushing the Start/Select button until the LED indicates the correct charge rate. Once the LED is solid, the charger is charging.

Note: When charging packs under 1000mAh, make certain you select the 1-amp charge rate. Receiver packs that have a capacity of 1000mAh or higher can be charged at 2 amps.

5. Watch the LED continue to climb until all lights flash, indicating the battery is fully charged. Once all of the LEDs are lit and flashing, the charger automatically transitions to trickle charge.

⚠ WARNING: If at any time during the charge process the battery pack(s) become hot (over 140 °F), unplug the battery immediately and discontinue the charge process.

TRICKLE CHARGE

Once the battery has peaked, the charger will automatically switch to trickle charge. This feature will make sure the battery is fully charged when you are ready to use it. You will know the charger has entered trickle when the charger repeatedly beeps, and the LED continuously flashes.

The battery pack will remain on trickle charge until you either re-peak the pack by pushing the Start/Select button or disconnect the pack.

RE-PEAKING

To re-peak a battery, keep the battery attached to the charge lead and push the Start button. Do not unplug and reattach the battery prior to re-peak. This will cause the battery to over-heat.

⚠ CAUTION: Never re-peak a warm battery as the overcharging can damage the products and possibly the user.

NOTICE: Check with the battery manufacturer to ensure peaking is possible. Failure to follow correct peaking procedure could cause damage to both the charger and battery packs.

CHARGE TIMES

The following are approximate charge times necessary for a battery that is fully discharged. Please note these are estimated times only.

1-amp (Rx Pack)		2-amp (Rx Pack)		4-amp (6-Cell Sub-C Car Pack)	
600mAh	36 minutes	1000mAh	30 minutes	1500mAh	23 minutes
700mAh	42 minutes			2000mAh	30 minutes
1000mAh	60 minutes			3000mAh	45 minutes

FUSES

The Vision Peak™ 2 uses a 2-amp fuse. If you need to replace the fuse, unscrew the fuse cap and replace it with a fuse of the same rating. Replacement fuses (DYN4004) are available from Dynamite®. You may also find a replacement fuse at your local auto supply store.

WARRANTY

Warranty Period

Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warrants that the Products purchased (the “Product”) will be free from defects in materials and workmanship for a period of 5 years from the date of purchase by the Purchaser.

5-Year Limited Warranty

Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(a) This warranty is limited to the original Purchaser (“Purchaser”) and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER’S INTENDED USE.

(c) Purchaser Remedy- Horizon’s sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser’s exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any goods by Purchaser must be approved in writing by Horizon before shipment.

Damage Limits

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

Law: These Terms are governed by Illinois law (without regard to conflict of law principals).

Safety Precautions

This is a sophisticated hobby Product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product 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. The Product manual contains 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 injury.

Questions, Assistance, and Repairs

Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact 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 direct your email to productsupport@horizonhobby.com or call 877.504.0233 toll free to speak to a Product Support representative.

Inspection or Repairs

If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. A Service Repair Request is available at www.horizonhobby.com on the “Support” tab. If you do not have internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

Warranty Inspection and Repairs

To receive warranty service, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge. Repair or replacement decisions are at the sole discretion of Horizon Hobby.

Non-Warranty Repairs

Should your repair not be covered by warranty the repair will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly. Please note: non-warranty repair is only available on electronics and model engines.

United States

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Service Center
4105 Fieldstone Road
Champaign, Illinois 61822
USA

All other Products requiring warranty inspection or repair should be shipped to the following address:

Horizon Product Support
4105 Fieldstone Road
Champaign, Illinois 61822
USA

Please call 877-504-0233 or e-mail us at productsupport@horizonhobby.com with any questions or concerns regarding this product or warranty.