



SPMXBC200



XBC200 BATTERY CHECKER & SERVO DRIVER

Instruction Manual
Bedienungsanleitung
Manuel d'utilisation
Manuale di Istruzioni

Created 5/25 890954



NOTICE

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, visit horizonhobby.com or towerhobbies.com and click on the support or resources 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:

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

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

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND little or no possibility of injury.



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 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 alter product in any way without the approval of Horizon Hobby, LLC. 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 serious injury.

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



WARNING AGAINST COUNTERFEIT PRODUCTS: Always purchase from a Horizon Hobby, LLC authorized dealer to ensure authentic high-quality Spektrum product. Horizon Hobby, LLC disclaims all support and warranty with regards, but not limited to, compatibility and performance of counterfeit products or products claiming compatibility with DSM or Spektrum technology.

NOTICE: This product is only intended for use with unmanned, hobby-grade, remote-controlled vehicles and aircraft. Horizon Hobby disclaims all liability outside of the intended purpose and will not provide warranty service related thereto.

Specifications

Input Voltage	5V – 36V
Lithium	1 – 8S
NiCd/NiMH	1 – 10S
Voltage Accuracy	+/-0.005V @ 4.2V
Balancing Cells Accuracy	< 0.005V
USB-C Power Output	5V $\overline{=}$ /3A; 9V $\overline{=}$ /2A; 12V $\overline{=}$ /1.5A
Smart Battery	Read charge/discharge setting, battery info and usage history

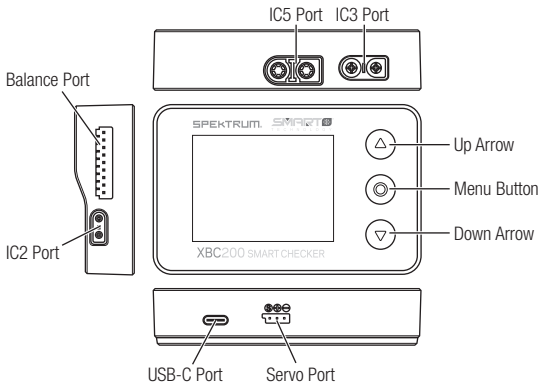
Overview

The SPMXBC200 Smart Battery Checker is compatible with conventional LiPo batteries and Spektrum™ Smart Batteries. When connected to a Spektrum Smart Battery, the XBC200 provides essential battery information on the health and history of the battery. The XBC200 can also be used as a servo driver to test servos without having to connect a radio and receiver.

For more information on Spektrum Smart battery technology visit:

<http://www.spektrumrc.com>

Layout



Menu and Settings

Menu Button: Short Press to enter setting menu, Long Press to enter Smart Battery menu

Up/Down Buttons: Used to navigate the menus and control

Menu Options

Language: Select a language

Backlight: Adjust brightness

Volume: Adjust volume

System Information: Shows firmware version

Receiver Tester: Test receiver output and function

Alarm Tone: Low Voltage alarm can be set to beep once or once every minute

Battery Type: Select the battery type

Low Voltage Alarm:

IC2, IC3, IC5 connection: user can select 3.3V - 3.9V per cell as low voltage threshold

Balance port: user can select single cell voltage 2.5V - 3.9V as low voltage threshold

Smart Battery: automatically set

USB-C Power: Connect a battery to the IC2, IC3, or IC5 connector to power USB devices

Servo Test (1500 μ s): Test servos with 1500 μ s center pulse

Servo Test (760 μ s): Test servos with 760 μ s center pulse

Servo Test Step: Set the travel distance per test step

Cells Balance: Balance the cells in a lithium battery

Spektrum Smart Battery Health and History Information

- Full Battery Voltage
- Individual Cell Voltage
- Individual Cell Voltage Difference
- Remaining Battery Capacity
- Battery Temperature
- Max Charge C Rating
- Number of Charge Cycles
- Number of Battery Over-Charges
- Battery Chemistry and Cell Count
- Battery Capacity
- Maximum Discharging C Rating
- Number of Battery Over-Discharges

Connecting a Battery to the Battery Checker

Spektrum Smart Battery

Use the IC2, IC3, or IC5 main battery connector for batteries with Smart technology. Press and hold the menu button when connecting a Smart battery to the battery checker to enter the system settings for the battery.

Smart Battery Menu Options

Auto Storage: Defines how long the battery waits before initiating the auto storage function

Storage Voltage: Defines the storage voltage the battery will set for auto storage

Charge Voltage: Defines the maximum allowable voltage

Exception Record: Check record of over charge - over discharge - over temperature

Back: Exits the menu

Non-Smart LiPo

Use the balance connector when connecting a non-Smart LiPo to the XBC200 for best results. Connecting a non-Smart battery power lead connector to the battery checker displays the pack voltage, not individual cell voltage.

Servo Driver Operation

Select the servo test function from the menu; 1500 μ s is the most common, 760 μ s is often used for helicopter tail rotor servos.

Plug the servo into the servo port. A 2-8 cell LiPo must be connected to the IC2, IC3, or IC5 port on the battery checker for the servo driver to function.

Servo Test Options

Turning: Press the up/down buttons to manually adjust the servo output

Fixed positions: Press the middle button to select from three positions; full negative, neutral, and full positive

Auto CW/CCW: Select this option to turn on wiper mode which sweeps back and forth through the full servo travel

Receiver Tester Operation

A 2-8 cell LiPo must be connected to the IC2, IC3, or IC5 port on the battery checker for the receiver tester to function, and the receiver must be powered from another source.

1. Power on the receiver.
2. Using a male to male servo extension, connect the servo port of the checker to the desired receiver channel port to be tested.
3. Select Receiver Tester from the Function menu.
4. Select Pulse Width Modulation or Rx Voltage Monitor.

Pulse Width Modulation: As transmitter inputs are made to the channel being tested, the graph shows the signal frequency and width.

Rx Voltage Monitor: The graph shows the voltage to the receiver at a particular moment in time. Use the up or down arrows to zoom into or out of the graph.

1-YEAR LIMITED WARRANTY

What this Warranty Covers

Horizon Hobby, LLC, (Horizon) warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship for a period of 1 year from the date of purchase.

What is Not Covered

This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, (v) Product not purchased from an authorized Horizon dealer, (vi) Product not compliant with applicable technical regulations, or (vii) use that violates any applicable laws, rules, or regulations.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

Purchaser's Remedy

Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. 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 the Product, purchaser is advised to return the 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). This warranty gives you specific legal rights, and you may also have 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, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

Inspection or Services

If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to 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 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. An Online Service Request is available at www.horizonhobby.com/service-center.html. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with 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 number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

NOTICE: Do not ship LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office.

Warranty Requirements

For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. 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 of Horizon.

Non-Warranty Service

Should your service not be covered by warranty, service 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 service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon's Terms and Conditions found on our website www.horizonhobby.com/service-center.html.

ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice 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.

Warranty and Service Contact Information

Country of Purchase	Horizon Hobby	Contact Information	Address
United States of America	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/RequestForm/	2904 Research Rd Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	productsupport@horizonhobby.com 800-338-4639	
	Sales	websales@horizonhobby.com 800-338-4639	
European Union	Horizon Technischer Service	service@horizonhobby.de	Hanskampring 9 D 22885 Barsbüttel, Germany
	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	

Compliance Information for the European Union

**EU Compliance Statement:**

XBC200 Smart Battery Checker (SPMXBC200): Hereby, Horizon Hobby, LLC declares that the device is in compliance with the following:

EU EMC Directive 2014/30/EU; RoHS 2 Directive 2011/65/EU; RoHS 3 Directive - Amending 2011/65/EU Annex II 2015/863.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.horizonhobby.com/content/support-render-compliance>.

EU Manufacturer of Record:

Horizon Hobby, LLC
2904 Research Road
Champaign, IL 61822 USA

EU Importer of Record:

Horizon Hobby, GmbH
Hanskampring 9
22885 Barsbüttel Germany

WEEE NOTICE:

This appliance is labeled in accordance with European Directive 2012/19/EU concerning waste of electrical and electronic equipment (WEEE). This label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.



**UK
CA**



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