



**SPEKTRUM®**

## **SPMAS6410NBL Receiver User Guide**

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**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 [horizonhobby.com](http://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 superficial 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 augment product in any way without the approval of Horizon Hobby, Inc. 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.

**WARNING AGAINST COUNTERFEIT PRODUCTS**

Thank you for purchasing a genuine Spektrum product. Always purchase from a Horizon Hobby, Inc. authorized dealer to ensure authentic high-quality Spektrum product. Horizon Hobby, Inc. 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.

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

**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 there to.

**WARRANTY REGISTRATION**

Visit [www.spektrumrc.com/registration](http://www.spektrumrc.com/registration) today to register your product.

# SPMAS6410NBL User Guide

The AS6410NBL 6-channel Ultra Micro AS3X® Receiver with brushless speed control and X-Port™ technology is designed for ultra micro aircraft. Featuring DSM2®/DSMX® technology, the AS6410NBL is compatible with all Spektrum™, JR®, E-flite® and ParkZone® 2.4GHz DSM2®/DSMX® technology transmitters.

**NOTICE:** The AS6410NBL receiver is not compatible with the DX6 park flyer radio system.

## AS3X Stabilization

### DELIVERS BREAKTHROUGH PERFORMANCE

The AS6410NBL features AS3X technology, an electronic enhancement system that makes it possible for you to experience super-smooth flight performance, yet still have full control authority for sport, scale or 3D flight. Turbulence, torque and tip stalls are just some of the many complications to assess when trying to achieve smooth flight. The Horizon Hobby world class team of RC pilots developed the AS3X System for airplanes based on the successful use of AS3X with ultra micro flybarless helicopters. The AS3X System invisibly helps with complicated corrections, allowing you to experience ultra smooth flight performance that feels so natural, that you'll quickly build confidence in the capability of the airplane. The AS6410NBL setup is easy. Just bind your DSM2/DSMX transmitter to your AS6410NBL using a basic airplane program and AS3X will assure that the locked-in feel and control authority you want is instantly at your command to help show off your RC pilot skills. The AS6410NBL will innovate the way you'll want to fly now and in the future.

**The AS6410NBL receiver defaults the AS3X system to OFF.** To activate AS3X, the optional Spektrum AS6410NBL USB Interface (SPMA3060) is required. The X-port must be active to program the AS6410NBL using the USB interface SPMA3060).

The AS6410NBL includes an RF telemetry data feature. RF telemetry data displays Frame Losses and Holds. No Fade or Receiver Voltage information will be available.

## Features

- 6-channel ultra micro AS3X receiver
- Integrated programmable brushless speed control
- Weighs just 6.4 grams
- AS3X stabilization technology
- Compatible with optional Spektrum 2.3-Gram Performance Linear Long Throw Servo (SPMSA2030L)
- Smart Bind™ technology
- X-Port allows for future expansion
- RF telemetry data (Frame losses and Holds only).

## Applications

The AS6410NBL is designed for ultra micro aircraft and is ideal for scratch-built ultra micro projects. The AS6410NBL is designed to utilize a two-cell LiPo battery. You can use the integrated brushless speed controller to power a brushless motor up to 4.9 amps of continuous current. An integrated X-Port feature allows for future expansion.

When X-Port is active, CH5 and CH6 are not available; however, reversed aileron (CH2) is still available.

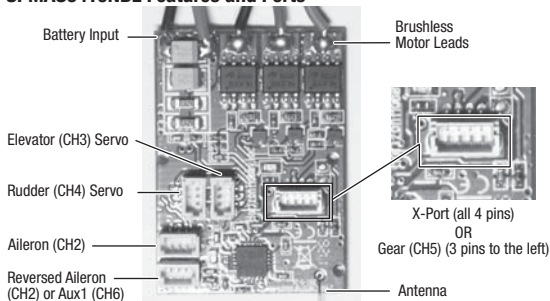
## SPMAS6410NBL Specifications

<b>Type:</b> .....	DSM2/DSMX ultra micro AS3X receiver with integrated brushless speed controller
<b>Channels:</b> .....	6 or 4 channels, plus X-Port
<b>Modulation:</b> .....	DSM2/DSMX
<b>Dimension:</b> .....	(WxLxH): 25.00 x 35.00 x 8.00 mm
<b>Weight:</b> .....	6.4 g
<b>Input Voltage Range:</b> .....	2-cell LiPo 6.4 to 8.4V
<b>Antenna Length:</b> .....	31mm
<b>Resolution:</b> .....	1024
<b>Compatibility:</b> .....	All DSM2/DSMX aircraft transmitters

## Speed Controller

<b>Type:</b> .....	Integrated programmable brushless
<b>Max continuous current:</b> .....	4.9 amps
<b>Overload protection current:</b> .....	5.8A for 1ms
<b>BEC continuous current:</b> .....	1A
<b>BEC overload protection current:</b> .....	1A, 4.2V
<b>Low-voltage cutoff:</b> .....	At <6.3V, the motor begins to pulse At <6.1V, the motor cuts off and the LED flashes
<b>Over-current protection:</b> .....	At 5.8A, the motor cuts off until the throttle stick is pulled down to idle
<b>Temperature protection:</b> .....	at 120°C, the motor cuts off
<b>Programming features:</b> .....	See "Programming the Brushless ESC"

## SPMAS6410NBL Features and Ports



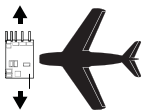
## Receiver Installation

We recommend using double-sided foam tape and/or minimal hot glue in the corners to install your receiver in the fuselage. The servos must be in the appropriate position to attach to and drive the elevator and rudder pushrods.

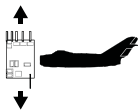
The motor wires must be aligned parallel to the fuselage of the aircraft for correct AS3X Stabilization.

### Do not install the receiver in the aircraft as shown.

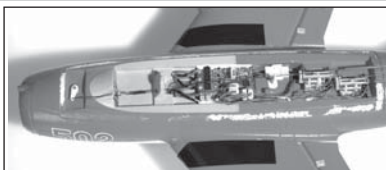
**Do Not** install with motor wires parallel to the wings



**Do Not** install with motor wires perpendicular to the wings.



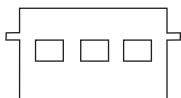
**CAUTION:** If AS3X is active and the receiver is not installed correctly, the aircraft will crash.



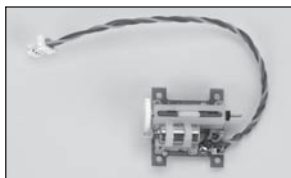
## Servos

Specially designed servos are available from Spektrum.

**NOTICE:** Using any other servo(s) may cause damage to the receiver and/or void the servo warranty.

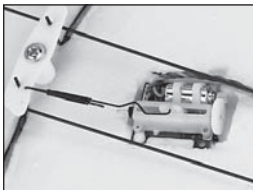


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## Installing and Plugging in the Optional Servos

Use double-sided foam tape strips and/or minimal hot glue to mount the servos in place. The servos must be in the appropriate position to attach to the corresponding pushrods. Plug the servo leads into the appropriate servo ports in the receiver, noting the polarity of the servo connector. Installation will vary depending on application.



### Smart Bind™

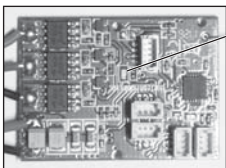
You must first bind the receiver to the transmitter for it to operate. Binding is programming the receiver of the control unit to recognize the GUID (Globally Unique Identifier) code of a single specific transmitter. The AS6410NBL features Smart Bind technology. When the receiver is first powered on, the receiver looks for the signal of its previously bound transmitter for 5 seconds. If no signal is found, the receiver automatically goes into bind mode, indicated by a flashing LED.

### Binding

1. Make sure the flight battery is fully charged.
2. Confirm the flight battery is disconnected from the receiver/ESC unit and the transmitter is turned off.
3. Plug the flight battery into the receiver's battery connector. After 5 seconds, the LED on the receiver begins to flash.
4. After verifying the LED is flashing on the receiver, bind the receiver to the transmitter.
5. If you entered bind mode correctly, you will see a solid LED within about 10 seconds. You should now be bound to the transmitter and have full control and function.



**IMPORTANT:** Once the system is bound, ALWAYS turn the transmitter on first and then the receiver to prevent the receiver from re-entering bind mode. If your receiver inadvertently enters bind mode, unplug the battery from the receiver and reconnect it with the transmitter turned on.



### Transmitter Specific Binding Instructions

1. To bind the AS6410NBL to the transmitter, plug the battery into the receiver. The LED on the receiver will begin flashing.
2. Move the sticks and switches on the transmitter to the desired failsafe positions (low throttle and neutral control positions).
3. Put the transmitter into bind mode. Refer to your transmitter instruction manual for more information.
4. The LED on the receiver will turn solid and the system will connect after several seconds.

## Advanced Programming Features

**NOTICE:** To make these changes, enlist the use of a helper to either hold the aircraft to prevent unintended flyaways or to make the changes on the transmitter.

**CAUTION:** Make sure your receiver is off BEFORE making any advanced programming changes in order to prevent the motor from arming.

The following programming features are only recommended for advanced radio users. The photos in this section show the E-flite® MLP4DSM transmitter; however, the procedures apply to all compatible transmitters.

### Computer Transmitters

Prior to making any advanced programming feature changes, it is necessary to:

1. Choose an empty model location.
2. Select model type ACRO.
3. Perform a model reset.
4. Set all channels to normal.
5. Ensure the transmitter and receiver are bound.

**CAUTION:** Secure the aircraft safely to a work bench or enlist the use of a helper while accessing the advanced programming features. Mistakes in programming could cause the motor to run unexpectedly, which could result in injury or a crash.

#### Reversing Servos

Servo reversing is done through your transmitter's servo reversing function.

You may also reverse the actual servos by following the instructions below.

#### Reversing Linear Servos

Reversing the servo is useful when implementing certain installations, such as dual ailerons, flaps, etc. Spektrum offers a servo reversing lead that you can plug in between the receiver and the optional servo.

To reverse the servo using the reversing lead:

1. Plug the reversing lead into the servo
2. Plug the servo into the servo port(s)
3. Power the receiver using a charged battery
4. Once the receiver connects, the servo is now reversed
5. Disconnect the battery from the receiver
6. Remove the servo reversing lead (be sure to store your reversing lead in a safe place for future use)
7. Reinstall the servo lead into the servo port(s)



## To Change CH6 to a Reversed CH2 for Dual Ailerons or Reversed CH2 to CH6

1. Ensure the receiver and transmitter are bound
2. Turn the transmitter on
3. Move the THRO stick to the full throttle position
4. Move the Control sticks to the corresponding position to change between the available options (see illustration)
5. Hold this position and plug the battery into the receiver
6. The LED on the receiver will turn solid within 5 seconds and the LED will flash 3 times, indicating the option is now changed
7. Disconnect the battery from the receiver
8. Turn the transmitter off



## To Change CH5 to X-port or X-port to CH5

When X-Port is active, CH5 and CH6 are not available; however, reversed aileron (CH2) is still available.

1. Ensure the receiver and transmitter are bound.
2. Plug the X-Port accessory or the optional servo into the X-Port/CH5 port.
3. Turn the transmitter on.
4. Move the THRO stick to the full throttle position.
5. Move the control sticks to the corresponding position to change between the available options (see illustration).
6. Hold this position and plug the battery into the receiver.
7. The LED on the receiver will turn solid within 5 seconds and the LED will flash 3 times quickly, indicating the option is now changed.
8. Disconnect the battery from the receiver.
9. Turn the transmitter off.



## Optional Support Items

Please see [www.horizonhobby.com](http://www.horizonhobby.com) for a complete list of items.



## Programming the Brushless ESC

To access a programmable feature, power on with full throttle (musical confirmation sound).

### Brake

- Pull throttle to center (1 long beep).  
To assign **No Brake**: Push throttle to full (1 short beep). **(Default)**  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- To assign **Soft Brake**: Keep throttle at full for 5 seconds (2 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- To assign **Center Brake**: Keep throttle at full for 10 seconds (3 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- To assign **Hard Brake**: Keep throttle at full for 15 seconds (4 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).

### Timing

- Pull throttle to center, hold for 5 seconds (2 long beeps).  
**5°**: Push throttle to full (1 short beep).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- 10°**: Keep throttle at full for 5 seconds (2 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- 15°**: Keep throttle at full for 10 seconds (3 short beeps). **(Default)**  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- 20°**: Keep throttle at full for 15 seconds (4 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- 25°**: Keep throttle at full for 20 seconds (5 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).

### Throttle Range

- Pull throttle to center, hold for 10 seconds (3 long beeps).  
**1.2–1.8ms**: Push throttle to full (1 short beep). **(Default)**  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound)
- 1.1–1.9ms**: Keep throttle at full for 5 seconds (2 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).

### Starting Rate

- Pull throttle to center, hold for 15 seconds (4 long beeps).  
**0.25s**: Push throttle to full (1 short beep). **(Default)**  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- 1.0s**: Keep throttle at full for 5 seconds (2 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).

### PWM Switching Frequency

- Pull throttle to center, hold for 20 seconds (5 long beeps).  
**8kHz**: Push throttle to full (1 short beep). **(Default)**  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- 16kHz**: Keep throttle at full for 5 seconds (2 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- 32kHz**: Keep throttle at full for 10 seconds (3 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).

### Mode

- Pull throttle to center, hold for 25 seconds (6 long beeps).  
**Normal Mode**: Push throttle to full (1 short beep). **(Default)**  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).
- Helicopter Mode**: Keep throttle at full for 5 seconds (2 short beeps).  
Pull back to center throttle to confirm setting (Hi Lo Hi Lo sound).

Cutoff voltage: 6.1V is unchangeable.

Recycle ESC power with throttle idle after changing settings.

Recycle the power after you hear the Hi Lo Hi Lo confirming beeps after changing the settings.

## 2.4GHz Troubleshooting Guide

Problem	Possible Cause	Solution
Aircraft will not “throttle up” but all other controls seem to function	User did not lower throttle trim and throttle stick prior to initializing the aircraft	Lower throttle stick and throttle trim to their lowest settings before initializing
	Throttle channel is reversed. Futaba transmitters (equipped with Spektrum modules) may require you to reverse the throttle channel	Reverse throttle channel on specific transmitter if applicable
LED on aircraft remains flashing and cannot be controlled by transmitter	User did not wait at least 5 seconds after powering the transmitter prior to connecting the flight battery to the aircraft	Unplug, then reconnect flight battery
	User bound the aircraft to a different transmitter	Rebind aircraft to your desired compatible transmitter
	Transmitter was too close to aircraft during the initialization process	Move transmitter (powered on) a few feet from the aircraft prior to reconnecting the flight battery
Controls appear to be reversed after binding to a different transmitter	User did not initially set up transmitter prior to binding to the aircraft	See the “Advanced Programming” section of this manual
Aircraft does not function after connecting flight battery and aircraft smells burnt	User may have accidentally plugged the flight battery in with the wrong polarity	Replace AS6410NBL board and ensure the RED polarity marks are facing the same direction when connecting the flight battery to the AS6410NBL board

Problem	Possible Cause	Solution
The system will not connect	Your transmitter and receiver are too close together	Move transmitter 8 to 12 feet from receiver
	You are around metal objects	Move to an area with less metal
	Model selected is not the model bound to	Check model selected and ensure you are bound to that model
	Your transmitter was accidentally put into bind mode and is not bound to your receiver anymore	Rebind your transmitter and receiver
Receiver quits responding during operation	Inadequate battery voltage	Charge batteries. Spektrum receivers require at least 3.5V to operate. An inadequate power supply can allow voltage to momentarily drop below 3.5V and cause the receiver to brown out and reconnect
	Loose or damaged wires or connectors between battery and receiver	Check the wires and connection between battery and receiver. Repair or replace wires and/or connectors
Receiver loses its bind	Transmitter stand or tray could be depressing the bind button	If stand is depressing bind button, remove from stand and rebind
	Bind button pressed before transmitter turned on	Rebind your system following binding instructions
Receiver blinking at landing	System turned on and connected, then receiver turned off without turning off transmitter	Turn off transmitter when receiver is turned off

# 1-Year Limited Warranty

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## What this Warranty Covers

Horizon Hobby, Inc., (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 years 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, or (vi) Product not compliant with applicable technical 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](http://www.horizonhobby.com), submit a Product Support Inquiry, or call 877.504.0233 toll free to speak to 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 Horizon Hobby Service Center. 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 Horizon Hobby Service Center.

**NOTICE: Horizon service is limited to Product compliant in the country of use and ownership. If non-compliant product is received by Horizon for service, it will be returned unserviced at the sole expense of the purchaser.**

## Warranty, Service and Customer Service Contact Information

Country of Purchase	Horizon Hobby	Address	Phone Number/Email Address
United States of America	Horizon Service Center (Electronics and engines)	4105 Fieldstone Rd Champaign, Illinois 61822 USA	877-504-0233 Online Repair Request: visit <a href="http://www.horizonhobby.com/service">www.horizonhobby.com/service</a>
	Horizon Product Support (All other products)	4105 Fieldstone Rd Champaign, Illinois 61822 USA	877-504-0233 <a href="mailto:productsupport@horizonhobby.com">productsupport@horizonhobby.com</a>
	Sales Customer Service	4105 Fieldstone Rd Champaign, Illinois 61822 USA	(800) 338-4639 <a href="mailto:sales@horizonhobby.com">sales@horizonhobby.com</a>
United Kingdom	Horizon Hobby Limited	Units 1-4 Ployters Rd Staple Tye Harlow, Essex CM18 7NS United Kingdom	+44 (0) 1279 641 097 <a href="mailto:sales@horizonhobby.co.uk">sales@horizonhobby.co.uk</a>
Germany	Horizon Technischer Service Horizon Hobby GmbH	Christian-Junge-Straße 1 25337 Elmshorn Germany	+49 (0) 4121 2655 100 <a href="mailto:service@horizonhobby.de">service@horizonhobby.de</a>
France	Horizon Hobby SAS	14 Rue Gustave Eiffel Zone d'Activité du Réveil Matin 91230 Montgeron	+33 (0) 1 60 47 44 70 <a href="mailto:infofrance@horizonhobby.com">infofrance@horizonhobby.com</a>
China	Horizon Hobby China	Room 506, No. 97 Changshou Rd. Shanghai, China 200060	+86 (021) 5180 9868 <a href="mailto:info@horizonhobby.com.cn">info@horizonhobby.com.cn</a> <a href="http://www.horizonhobby.com.cn">www.horizonhobby.com.cn</a>

## FCC Information

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

## Compliance Information for the European Union

### Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2011110403

Product(s):	Receiver
Item Number(s):	SPMAS6410NBL

The objects of declaration described above are in conformity with the requirements of the specifications listed below, following the provisions of the European R&TTE directive 1999/5/EC:

**EN 301 489-1 V1.7.1: 2006**

**EN 301 489-17 V1.3.2: 2008**



Signed for and on behalf of:

Horizon Hobby, Inc.  
Champaign, IL USA  
November 4, 2011

Steven A. Hall  
Vice President  
International Operations and Risk Management  
Horizon Hobby, Inc.



### Instructions for disposal of WEEE by users in the European Union

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 designated 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 human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.



# SPEKTRUM®

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The Spektrum trademark is used with permission of Bachmann Industries, Futaba is a registered trademark of Futaba Denshi Kogyo Kabushiki Kaisha Corporation of Japan.

US 7,898,130. US D578,146. PRC ZL 200720069025.2. Other patents pending.

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