SPEKTRUM

SMART™

TECHNOLOGY

SR6110AT

AVC Telemetry Receiver Instruction Manual

AVC-Telemetrieempfänger-Bedienungsanleitung

Manuel d'instructions du récepteur AVC avec télémétrie

Manuale di istruzioni del ricevitore AVC con telemetria

HORIZON HOBBY

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. 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.

NOTICE: Procedures, which if not properly followed, create a possibility

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

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, 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.

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. Horizon Hobby disclaims all liability outside of the intended purpose and will not provide warranty service related thereto.

WARRANTY REGISTRATION

Visit www.community.spektrumrc.com today to register your product.

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Specifications	SR6110AT
Type	DSMR AVC Receiver with Telemetry
Dimensions (L × W × H)	42.4mm× 23.9mm × 15.1mm
Antenna Length	229mm / 9in
Channels	6
Weight	10g
Band	2404 MHz – 2476 MHz
Voltage Range	3.5–9.6V

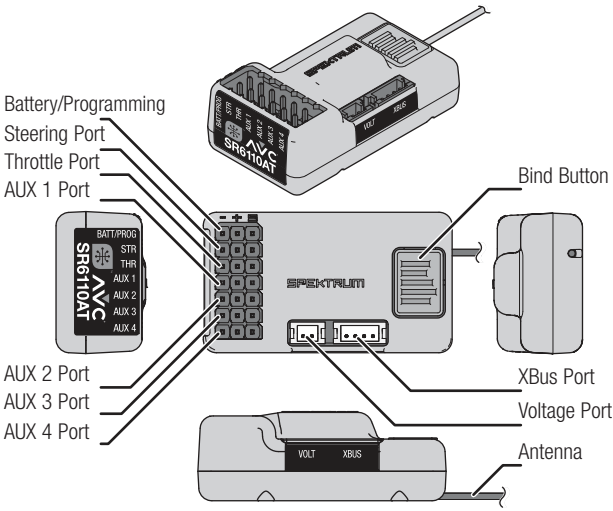
NOTICE: Digital servos are required with the SR6110AT AVC receiver. Using analog servos with AVC technology will reduce the performance of the system and may cause the servos to overheat.

The Spektrum™ SR6110AT AVC Telemetry Receiver is compatible with all Spektrum DSMR® surface transmitters. Telemetry functions require a Spektrum DSMR transmitter capable of telemetry, and SMART Throttle telemetry may require a firmware update for your transmitter. Visit the product page for your transmitter at SpektrumRC.com for more information.

TELEMETRY WITH SMART THROTTLE

With SMART Throttle the normal throttle lead delivers the throttle signal to the ESC, plus the ESC can send telemetry data like voltage and temp back to the receiver. For SMART Throttle to function you must use a SMART Throttle ESC paired with a SMART Throttle telemetry receiver, and a Spektrum DSMR transmitter with telemetry. Only certain Spektrum products include SMART technology, check your ESC and transmitter manual for more information.

SR6110AT RECEIVER DIAGRAM



POWERING THE RECEIVER WITH A SEPARATE RECEIVER PACK

1. Connect the steering servo to the steering port (STR)
2. Connect the throttle servo to the throttle port (THR)
3. Connect the switch harness and a 3.5V–9.6V battery to the battery (BATT) port to power on receiver.

POWERING THE RECEIVER WITH AN ESC

1. Connect the steering servo to the steering port (STR)
2. Connect the throttle servo to the throttle port (THR). Most ESCs will have an integrated BEC (battery eliminator circuit) which will power the ESC from the motor battery, through the throttle lead. Connecting the ESC to any of the ports on the servo rail will power the receiver when the ESC is turned on.

SMART THROTTLE:

The SR6110AT receiver throttle port includes SMART Throttle. The SR6110AT receiver throttle port will automatically detect when a SMART Throttle compatible ESC is plugged in and the throttle port will begin to operate in SMART Throttle mode.

ESCs with SMART Throttle and IC series connectors can also pass along battery data from compatible Spektrum SMART batteries.

The SR6110AT is compatible with the Spektrum Firma™ line of ESCs for SMART Throttle.

NORMAL SERVO SIGNAL (PWM):

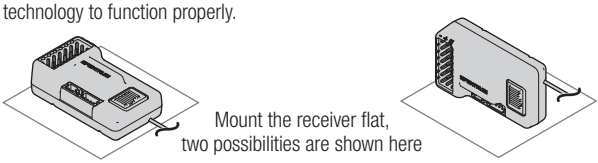
If a standard ESC or servo is plugged into the throttle port on the SR6110AT receiver, the throttle port will operate normally like any conventional RC system (PWM signal).

NOTICE: Do not connect a dedicated receiver battery to the receiver along with an ESC (with a BEC, a feature which most ESCs include). When an ESC is turned on it will provide the receiver with regulated power from the main battery through the throttle connection. The ESC, battery and/or receiver may be damaged if the receiver is also connected to a dedicated receiver battery. This does not apply to an ESC which does not have a BEC.

AVC RECEIVER INSTALLATION

Install the SR6110AT receiver in the vehicle before binding the transmitter and receiver. The receiver can be mounted completely flat (servo ports and bind button facing up) or completely perpendicular on its side. When binding the receiver, the AVC system automatically detects the orientation of the receiver.

If the receiver is angled, AVC technology may not function properly. If the orientation of the receiver is modified after binding, you must rebind for AVC technology to function properly.



Mount the receiver flat, two possibilities are shown here

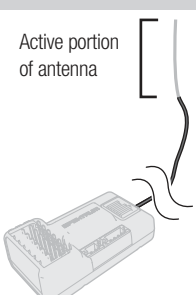
You may mount the receiver on any of its six sides, and it does not matter which direction the receiver is pointed. The receiver doesn't even need to be square with the vehicle, as long as it is flat and level.

IMPORTANT: Do not use hook and loop tape to install the SR6110AT receiver. Using hook and loop tape will effect the performance of the AVC system.

ANTENNA INSTALLATION

The SR6110AT receiver has a coaxial style antenna. Position the antenna vertically and away from the vehicle in an antenna tube. Make sure the tip of the antenna is as high as possible to maximize the signal strength.

NOTICE: Do not cut, kink, or modify the antenna. Damage to the coaxial portion of the antenna will reduce the performance of the antenna. Shortening or cutting off the 31mm tip will reduce the range to a small fraction of what it should be.

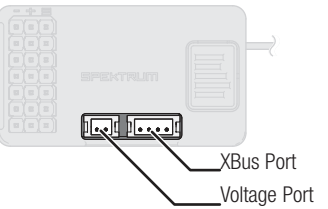


TELEMETRY

In addition to SMART Throttle, the SR6110AT Telemetry Receiver features two integrated telemetry ports that are compatible with telemetry capable DSMR transmitters.

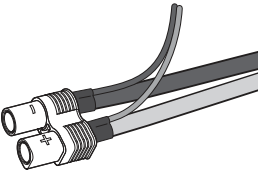
The Telemetry ports include:

- Voltage (0V – 51V)
- XBus Port



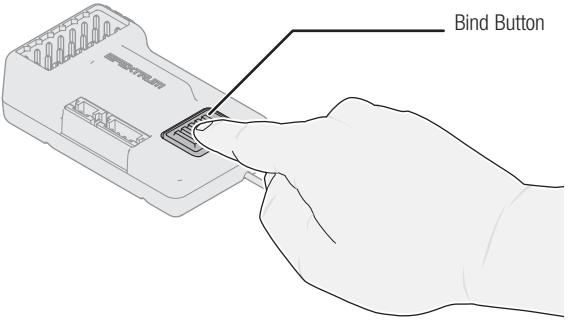
VOLTAGE SENSOR

- Plug the voltage sensor (SPMA9570) into the VOLT port on the SR6110AT.
- To connect the voltage sensor to your vehicle, typically it would be soldered to the battery connector. Attach the stripped end of the voltage sensor wires to the positive (red) and negative (black) wires of the voltage source, matching red to red and black to black.



BINDING AND CALIBRATING

Binding is the process of linking the SR6110AT receiver to your Spektrum transmitter. The AVC features on the receiver can be enabled or disabled during the binding process. There is no bind plug on the SR6110AT, a button is used to put the receiver in bind mode.



IMPORTANT: You must calibrate the SR6110AT receiver each time it is placed in bind mode, regardless of AVC being enabled or disabled.

BIND AND CALIBRATION PROCESS

Upon initial setup after the first bind, the model must be configured for servo direction, trim and travel. Then the receiver must be rebound and calibrated to those settings for proper operation. Center the steering trim and throttle trim on the transmitter before beginning.

1. Press and hold the bind button on the receiver.
2. Power on the receiver. The orange LED flashes, indicating the receiver is in bind mode. Release the bind button after the orange LED illuminates.
3. Put your transmitter in bind mode.
4. The bind process is complete when the orange LED on the receiver remains lit. At this stage the receiver is connected but must complete calibration before it will operate.
5. Pull the transmitter trigger to full throttle, pause, then return the trigger to center.
6. Push the transmitter trigger to full brake, pause, then return the trigger to center.
7. Turn the transmitter steering wheel to full right, pause, then return the wheel to center.
8. Turn the transmitter steering wheel to full left, pause, then return the steering wheel to center. The orange LED flashes to confirm the settings have been accepted.
9. Turn off the vehicle to complete the binding and calibration process.

⚠ **CAUTION:** When the bind process is complete, the throttle and steering channels are active. Keep hands and loose objects away from all spinning parts on the vehicle.

IMPORTANT: You must rebind the transmitter and receiver if you
Change the servo reversing after binding
Change the travel after binding
Change the receiver mounting orientation
Want to use the receiver with a different model memory
Install the receiver in a different vehicle.
Are using the receiver in 5.5ms and want telemetry, you must rebind in 11ms.
Are using the receiver with a DSMR transmitter and you change the frame rate in the transmitter.

FAILSAFE

In the unlikely event that the radio link is lost during use, the receiver will drive the throttle channel to the neutral position. If the receiver is powered on prior to turning on the transmitter, the receiver will enter the failsafe mode, driving the throttle channel to the neutral position. When the transmitter is turned on, normal control is resumed.

IMPORTANT: Failsafe activates only in the event that signal is lost from the transmitter. Failsafe will NOT activate in the event that receiver battery power decreases below the recommended minimums or power to the receiver is lost.

DISABLING AVC TECHNOLOGY

AVC may be disabled during binding.

1. Connect power to the receiver and quickly press and release the bind button three times (within 1.5 seconds).
2. Press and hold the bind button and to put the receiver in bind mode. release the buton when the LED starts to flash rapidly, indicating it is in bind mode.

When the AVC system has been disabled, the LED on the receiver will show three flashes upon power up, and then remain lit. The receiver is bound and operating normally when the LED remains illuminated.

TIP: If the AVC feature in the receiver is active and the AVC menu in the transmitter is Inhibited, AVC functions will default to the AUX 1 and AUX 2 operation, and in this scenario, AVC will not work correctly.

Selecting INH in the AVC menu on your transmitter will not disable AVC.

AVC TECHNOLOGY SETUP

For the best AVC performance, use the AVC menu on your Spektrum transmitter to tune and manage AVC settings.

Order of operations for AVC setup

1. Install the receiver in your vehicle
2. Bind the vehicle and complete the calibration procedure.
3. Set up servo sub trim, reversing and travel to suit your vehicle.
4. Re-bind and complete calibration again so calibration matches the model setup.
5. Drive the vehicle with no gain on AVC settings to verify your travel and other basic settings. If any changes are made re-bind and re-calibrate.
6. Follow the AVC tuning procedure in this manual.

SERVO TRAVEL WITH AVC TECHNOLOGY

AVC technology requires at least 80% travel on steering and throttle in all directions to complete calibration. If you have reduced travel to below 80%, you must increase the travel above 80% to complete calibration.

For vehicles with a mechanical brake, very little servo travel is used to apply braking force. In this case it is common to reduce throttle travel for braking well below 80%. To calibrate a vehicle with a mechanical brake, increase the brake travel above 80% whenever the vehicle is calibrated (bound), then change the braking travel back to the travel setting for your brakes.

AUX CHANNELS AND AVC TECHNOLOGY

When AVC is active, the SR6110AT receiver will use the AUX 1 and AUX 2 channels for gain control. AUX 1 and AUX 2 should be allocated for AVC when AVC is active. This is done automatically when the AVC menu is selected in your transmitter, but if you are not using the AVC menu, AUX1 or AUX2 should not be used for other mixes or to control other applications (servos, etc.)

The AUX 1 and AUX 2 ports can be used in AVC mode to power a personal transponder, lights, drive servos, or operate auxiliary devices. However, AUX 1 will command steering gain, and AUX 2 will command throttle gain regardless of what is plugged into the AUX 1 or AUX 2 ports. AUX 1 and AUX 2 are not independent when AVC is active. For an independent channel, use AUX 3 or 4.

TIP: Using the SR6110AT receiver without the AVC menu on your transmitter or using AUX 1 or AUX 2 to command auxiliary functions may result in poor AVC performance.

- If 5.5ms frame rate is selected in the transmitter, only two channels, Steering and Throttle, are operational. The Aux channels can be used to power a personal transponder or lights.
- If a frame rate other than 5.5ms is selected, the Aux channels will operate as extra servo channels.

AVC TUNING

A value from 0 to 100 is used for three settings that affect tuning; steering gain, throttle gain, and priority. These values configure the receiver to your vehicle so you can tune it for optimal performance based on your driving style. It is normal for gain and priority tuning results to vary.

WHAT IS GAIN?

A gain value of 0 will result in zero electronic corrections, and a gain of 100 will result in large corrections in an effort to hold a straight line.

- Steering gain tells the receiver how strongly to assist steering when the vehicle begins to spin out of control.
- Throttle gain manages how much the receiver can ease off the throttle when the vehicle begins to spin out of control.

The default gain values in Spektrum transmitter AVC menus are set at 50. We recommend adjusting gain values 5 points at a time. Fine tune the settings with smaller increments as desired performance is achieved.

WHAT IS PRIORITY?

Priority tells the receiver how much you want to be able to override the electronic stability with your steering commands. A low priority means AVC will make steering corrections when you turn the wheel all the way. A high priority will reduce AVC the more you turn the wheel.

The default priority value in Spektrum transmitter AVC menus is 100. This means when you turn the steering wheel to the limit, the gain is reduced to zero. This value will work well for a majority of drivers.

WHAT IS HEADING HOLD?

Heading hold maintains the vehicle's direction. It is normal to see the wheels steer in the same direction the vehicle was last pointed. If a vehicle with AVC technology is lifted off the ground and turned from side to side, the wheels will steer in an effort to get back to the original heading. When driving, heading hold only works when the steering wheel is left straight. The moment you begin to turn the wheel, heading hold turns off. When the wheel is re-centered, heading hold is turned back on and is set to the new heading.

AVC TUNING PROCEDURE

1. With the transmitter and receiver already bound and properly calibrated, turn on the transmitter and vehicle.
2. Apply throttle, do not turn the steering wheel, and observe how well the vehicle can maintain a straight line at high speed.
   - If the vehicle does not make enough steering corrections to maintain a straight line, increase the steering gain.
     If the vehicle fishtails due to wheel-spin, increase the throttle gain.
   - If the vehicle wobbles (oscillates), reduce the steering gain.
   - Once you find the highest steering gain values that don't cause oscillations at high speed, use those numbers as your steering gain limit and don't go any higher.
3. Drive the vehicle through accelerated turns and observe how it responds.
   - If the vehicle slows down going into a turn, reduce the throttle gain.
   - To allow the vehicle to slide more with intentional wheel-spin, reduce the throttle gain.
   - To improve traction in slick conditions, increase throttle gain.
   - If the vehicle won't turn-in, increase the priority.
   - If the vehicle spins out, there are two tuning options to consider;
     1. Increasing throttle gain will give the receiver more authority to reduce throttle when the vehicle begins to spin out.
     2. Reducing priority will give the receiver more authority to help correct oversteer.

GENERAL AVC TUNING TIPS

For beginner drivers, low grip conditions, and vehicles with excessive power, more gain will be helpful.

For terrain with more grip and increased speeds, tuning will result in lower steering gain values.

CHANGING BATTERY VOLTAGE WHEN USING AVC

If you increase voltage going to your vehicle, the maximum steering gain setting will have to be reduced.
At the same time, when increasing voltage increased throttle gain will help manage the extra power.

For example: If a truck set up for 2S is upgraded to 3S, the truck may oscillate at high speeds on 3S, requiring steering gain to be reduced. Throttle gain will have a bigger effect on 3S, so increasing throttle gain may be beneficial.

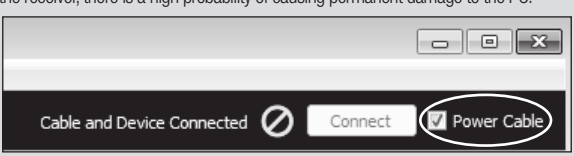
RECEIVER FIRMWARE UPDATES

If firmware updates are made available for the SR6110AT receiver, you can install the update yourself. The Spektrum USB programming cable (SPMA3065, not included) and a PC are required for updates. Go to the SR6110AT product page at SpektrumRC.com for update information and to register your receiver. Registration is required to download updates.

Update Process

1. Register your receiver and download the Spektrum programmer and the firmware update for the SR6110AT (when available).
2. Install the Spektrum programmer on your PC and open the app. Connect the USB programming cable to your PC and allow it to install the drivers.

NOTICE: In the programmer app there is an option to power the receiver from the PC. Leave this box checked. **DO NOT connect a power source to the receiver at the same time as the USB cable.**
If the box in the programmer app is checked to power the receiver from the computer, and the USB cable is plugged into the receiver, and a power source is plugged into the receiver, there is a high probability of causing permanent damage to the PC.



Make sure this check-box is checked to power the receiver from the PC during the update.

3. With the vehicle and receiver powered off, plug the updater cable into the programming port on the SR6110AT. **DO NOT** turn on the vehicle or receiver when the USB cable is connected. The PC should connect with the receiver automatically.
4. Follow the on screen prompts in the to install the firmware file on the SR6110AT.
5. When the update is complete, unplug the updater cable from the receiver.

2.4GHZ TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
The system will not connect	Your transmitter and receiver are too close together	Move transmitter 8 to 12 feet away from receiver
	You are near metal objects	Move to an area with less metal
	The receiver is bound to a different model memory	Make sure the correct model memory is active in your transmitter
	Your transmitter was placed into bind mode and is no longer bound to your receiver	Rebind your transmitter and receiver, and then re-calibrate
The receiver goes into failsafe a short distance away from the transmitter	Check for damage on the receiver antenna	Make sure your receiver antenna is protected and located as high as practical
		Replace the receiver or contact Horizon Product Support
The receiver stops responding during operation	Low receiver battery voltage. If the battery voltage is low, it may drop below 3.5V momentarily, causing the receiver to brown-out, then reconnect	Charge the receiver or vehicle battery. Spektrum receivers require at least 3.5V to operate
	Loose or damaged wires or connectors between battery and receiver	Check the wires and connection between the battery and receiver. Repair or replace wires and/or connectors

TELEMETRY TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
No telemetry options are available in the transmitter	You are using a transmitter that does not include telemetry features	Consider changing to a transmitter which includes telemetry
	Your transmitter is in 5.5ms mode	Select a different DSMR protocol, rebind and then recalibrate
The telemetry screen is blank	The telemetry screen needs to be configured in the transmitter telemetry menu	Configure the telemetry screen
SMART battery information is not coming through telemetry	Not using a SMART compatible ESC or receiver	An SMART ESC and receiver are required for SMART Battery data to be sent through telemetry
SMART Throttle ESC data is not coming through telemetry	Throttle lead from the ESC is not plugged into the correct port on the receiver.	Connect the ESC to the Throttle (THR) port on the receiver. No other ports support SMART Technology.

AVC TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
Vehicle Oscillates (wobbles or shakes) at high speeds	Steering gain is too high	Reduce steering gain
Vehicle responds strangely to controls	Receiver not properly calibrated	Confirm servo direction and travel are correct, then re-bind and re-calibrate the receiver
	Vehicle setup changed after calibration	
	Receiver not mounted level	Confirm the receiver is truly flat, it cannot be mounted at an odd angle.
Receiver won't finish the calibration	Travel adjust is below 80% on steering or throttle	Increase travel adjust and re-calibrate. See page 19 for more information about setting up vehicles with a mechanical brake.
Driver expects AVC should be turned off, but it is still turned on	AVC menu is inhibited, but AUX values are at neutral, which works out to 50% gain but with no priority.	Disable AVC during binding, or change AVC menu to on and set all gain values to 0

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 http://www.horizonhobby.com/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 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 http://www.horizonhobby.com/content/service-center_render-service-center.

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.

5-14-2015

WARRANTY, SERVICE AND CUSTOMER 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.	
		877-504-0233	
	Sales	websales@horizonhobby.com	
		800-338-4639	
EU	Horizon Technischer Service	service@horizonhobby.eu	Hanskampring 9 D 22885 Barsbüttel, Germany
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FCC INFORMATION

FCC ID: BRWSR6100AT

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.

When operating your Spektrum receiver, please be sure to maintain a separation distance of at least 20 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations.

SUPPLIER'S DECLARATION OF CONFORMITY

SPMSR6110AT 6 Channel DSMR AVC Telemetry Receiver

FC 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.

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 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Horizon Hobby, LLC
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IC INFORMATION

CAN ICES-3 (B)/NMB-3(B)

IC: 6157A-SR6100AT

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:
(1)this device may not cause interference,
(2)this device must accept any interference, including interference that may cause undesired operation of the device.

COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

EU Compliance Statement: Horizon Hobby, LLC hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the RED directive.

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

Operating Frequency
Band: 2404 – 2476 MHz
Max EIRP: 20dBm

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.

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