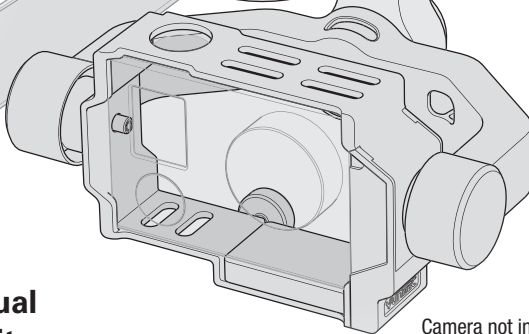


**BLADE**

## GB203 3-Axis Brushless Gimbal



**Instruction Manual  
Bedienungsanleitung  
Manuel d'utilisation  
Manuale di Istruzioni**

Camera not included

## 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](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 use with incompatible components or alter this product in any way outside of the instructions provided by 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.**

## Safety Precautions and Warnings

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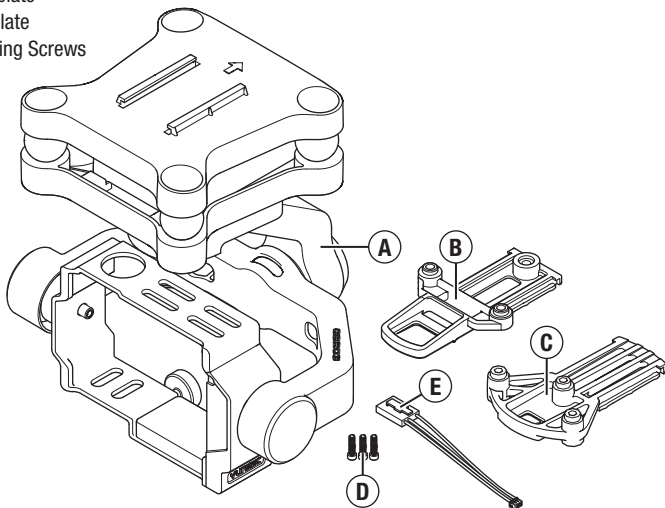
- Always keep a safe distance in all directions around your model to avoid collisions or injury. This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.
- Never place any portion of the model in your mouth as it could cause serious injury or even death.
- Never operate your model with low transmitter batteries.
- Always keep the aircraft in sight and under control.
- Always move the throttle fully down at rotor strike.
- Always use fully charged batteries.
- Always keep the transmitter powered on while the aircraft is powered.
- Always remove batteries before disassembly.
- Always keep moving parts clean.
- Always keep parts dry.
- Always let parts cool after use before touching.
- Always remove batteries after use.
- Never operate an aircraft with damaged wiring.
- Never touch moving parts.

## Table of Contents

Box Contents .....	4	Using the GB203 With Your Spektrum Transmitter ....	9
Technical Specifications.....	5	Troubleshooting .....	9
Gimbal Components.....	5	Optional Parts .....	9
Install the Mounting Plate .....	6	Limited Warranty .....	10
Install the Gimbal.....	6	Service Contact Information.....	12
Transmitter Programming .....	7	Compliance Information for the European Union.....	12
Install Your Camera.....	8		

## Box Contents

- A. GB203 3-Axis Gimbal
- B. Chroma™ Mounting plate
- C. 350 QX3 Mounting plate
- D. (3) M2.5 x 10 Mounting Screws
- E. 3 pin micro to 4 pin wire harness

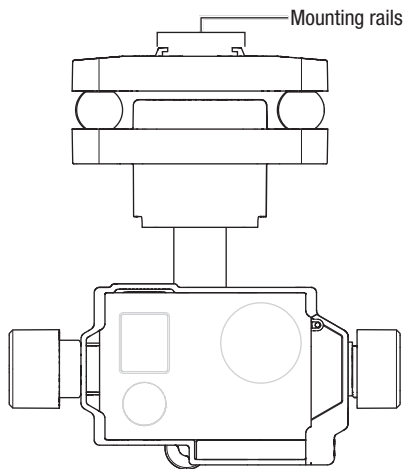


## Technical Specifications

Dimensions LxWxH (with lens):	3.1x4.3x4.7in (80x110x120mm)
Weight:	150 g
Working Temperature:	0° ~40°C

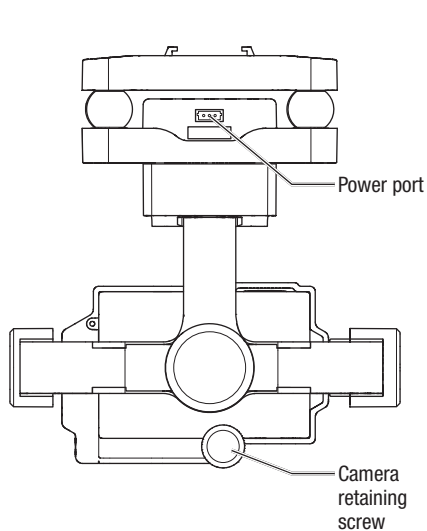
## Gimbal Components

Front

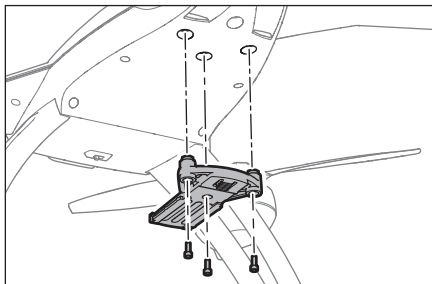


Camera not included

Back



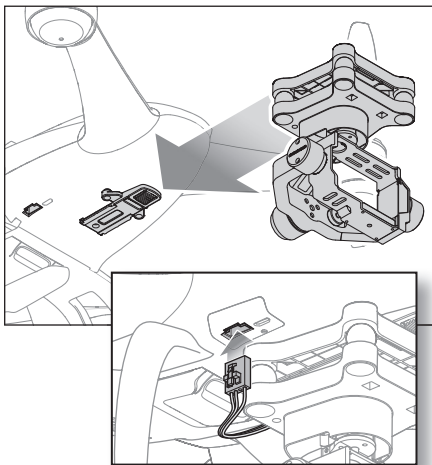
## Install the Mounting Plate



The GB203 gimbal is compatible with 350 QX3 and Chroma™ quadcopters. Install the appropriate mounting plate using the 3 included M2.5 x 10 screws. **Do not overtighten.**

**IMPORTANT:** If you are mounting the GB203 to the 350 QX3, you must first install the 350 QX3 tall landing gear (BLH8105).

## Install the Gimbal



Install the gimbal by lining up the mounting rails of the gimbal and the mounting plate and pushing towards the rear of the plate as shown at left until it locks into place.

To remove the gimbal, push in the retaining clip at the front of the mounting plate and pull the gimbal forward.

Connect the harness from the gimbal power port to either the exposed wire harness from the 350 QX3 or to the recessed plug in the bottom of the Chroma™ quadcopter.

## Transmitter Programming

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Transmitter control of the pitch angle of the GB203 is possible with most 6-channel and above Spektrum™ transmitters. Control of the pitch angle in flight is achieved on the DX6i and DX6 by temporarily using the throttle control stick to adjust pitch. If you are using the DX7s, DX8, DX7, DX9 or DX18, pitch control is achieved via the rotary knob on your transmitter.

*To program your transmitter:*

### DX6i

- Set the Channel 6 (FLAP) Travel Adj. to 120 up and 100 down.
- Set the values in the FLAP menu to 100 up and 100 down.

To change gimbal angle **BEFORE** starting the motors for flight, set the flap switch to position 1. The throttle stick will now control the angle of the gimbal. Set the flap switch to position 0 before flight.

To change the gimbal angle **IN FLIGHT**, cycle the flap switch to position 1. The throttle stick will now control the gimbal angle for **approximately 5 seconds** before returning to throttle control. Return the flap switch to position 0.

### DX6

In Channel Input Configuration:

- Assign channel 6 (AUX1) to switch A.
- Assign Gear to switch B.

In Servo Setup:

- Reverse AUX1.
- Set the travel values for AUX1 to:
  - 120%
  - 140%

To change the gimbal angle **BEFORE** starting the motors for flight, set switch A to position 1. The throttle stick will now control the angle of the gimbal. Set switch A to position 0 before flight.

To change the gimbal angle **IN FLIGHT**, cycle switch A to position 1. The throttle stick will now control the gimbal angle for **approximately 5 seconds** before returning to throttle control. Return switch A to position 0.

### DX7s

In Channel Input Configuration:

- Assign Channel 7 Input (AUX2) to the rotary knob.
- Assign AUX1 to the Gear switch.

In Servo Setup:

- Set the Channel 6 (AUX1) travel to the values below:
  - 120%
  - 140%

To change the gimbal angle, set the gear switch to position 0 and adjust the angle of the gimbal by rotating the knob on your transmitter at any time.

### DX8

In Channel Input Configuration:

- Assign Channel 7 Input (AUX2) to the rotary knob.
- Assign AUX1 to the Gear switch.

In Servo Setup:

- Set the Channel 6 (AUX1) travel to the values below:
  - 120%
  - 140%

To change the gimbal angle, set the gear switch to position 0 and adjust the angle of the gimbal by rotating the knob on your transmitter at any time.

## DX7, DX9, DX18

In Channel Input Configuration:

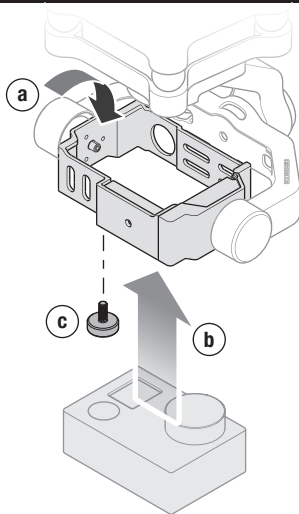
- Assign Channel 7 Input (AUX2) to R Knob.
- Assign AUX1 to A.

In Servo Setup:

- Set the AUX1 travel to the values below:  
140%  
120%

To change the gimbal angle, set switch A to position 0 and adjust the angle of the gimbal by rotating the R Knob at any time.

## Install Your Camera



The included GB203 3-axis gimbal is compatible with GoPro® Hero 3 and 4 cameras.

- Install the camera into the gimbal by rotating the mount as shown.
- Slide the camera into the camera mount until it stops against the front of the mount.
- Thread the retaining screw into the mount until it is snug against the camera. **Do not overtighten.**



**CAUTION:** The GoPro® Wi-Fi will interfere with the quadcopter receiver and may cause a loss of signal and crash. Follow the camera instructions to turn the Wi-Fi off before attempting to power on the quadcopter. **Crash damage is not covered under warranty.**



## Using the GB203 With Your Spektrum Transmitter

1. Power on your camera.
2. Place the quadcopter on a flat and stable surface. Ensure there are no obstructions in the path of the GB203.
3. Switch on your transmitter.
4. Switch on your quadcopter.

The gimbal will now compensate for any roll, pitch and yaw movements encountered by your quadcopter in flight.

If desired, you may change the pitch angle of the gimbal at any time using your programmed transmitter controls.

## Troubleshooting

Problem	Possible Cause	Solution
The gimbal vibrates after switching ON	Gimbal did not initialize correctly or was obstructed	Re-initialize with the gimbal clear of obstructions
Gimbal does not respond to control input	Gimbal did not initialize	Keep the quadcopter and gimbal level and immobile for 5 seconds after switching ON
Gimbal is not ON	Incorrect gimbal connection	Correctly connect gimbal
Gimbal does not respond to transmitter	Incorrect transmitter set up	Review transmitter programming section and make corrections to transmitter set up

## Optional Parts

Part #	Description
BLH8105	Tall Landing Gear Set: 350 QX3

## Limited Warranty

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### 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 at 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](http://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.

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## 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](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 Li-Po batteries to Horizon. If you have any issue with a Li-Po 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](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.**

## 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/	4105 Fieldstone Rd Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	www.quickbase.com/db/ bghj7ey8c?a=GenNewRecord 888-959-2304	
	Sales	sales@horizonhobby.com 888-959-2304	
United Kingdom	Service/Parts/Sales: Horizon Hobby Limited	sales@horizonhobby.co.uk +44 (0) 1279 641 097	Units 1–4 , Ployters Rd, Staple Tye Harlow, Essex, CM18 7NS, United Kingdom
Germany	Horizon Technischer Service Sales: Horizon Hobby GmbH	service@horizonhobby.de +49 (0) 4121 2655 100	Christian-Junge-Straße 1 25337 Elmshorn, Germany
France	Service/Parts/Sales: Horizon Hobby SAS	infofrance@horizonhobby.com +33 (0) 1 60 18 34 90	11 Rue Georges Charpak 77127 Lieusaint, France
China	Service/Parts/Sales: Horizon Hobby – China	info@horizonhobby.com.cn +86 (021) 5180 9868	Room 506, No. 97 Changshou Rd. Shanghai, China 200060

## 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 EMC Directives.

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

## 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 collection 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.



**E328**

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