

## **RC EYE NovaX 350 Firmware Version 1.5**

### **New Feature List & Descriptions**

#### **Speed Guided Flying Bank (Formally Aerial Photography Bank)**

This new feature is a direct replacement for Aerial Photography Pre-set flight bank. Speed guided flying bank is only active while flying in GPS (Position Hold Flight, Blue LED) Mode. The NovaX Now uses GPS coordinates to control its speed relative to the amount of pilot control input. This allows users to capture smooth Aerial Photography, or Videography. With this enhancement the pilot can maintain a constant smooth flight speed. Speed Guided Flying bank is not active in Mid-stick (Green), Normal (Magenta) Flight modes, Sport flight bank, and User flight bank.

#### **Distance Feature**

Distance fence can be toggled on / off, and parameters can be adjusted using the Eye Control App. Geo-Fence is active only in GPS flight mode with the Speed Guided Flying bank enabled. Distance fence creates a virtual cylindrical barrier around the NovaX 350's take off point. Once the barrier distance is set, and the feature is toggled 'On' through the Eye Control App, the pilot can determine a take-off point and begin flying. Once the NovaX reaches the distance chosen from the take-off point it will automatically stop at the virtual fence, and not be able to travel through. This particular feature has two huge advantages. It prevents pilots who are focused on capturing Aerial Video from allowing the NovaX to travel too far away from them while they are focusing on collecting stable footage. It is also a perfect new pilot training tool. A pilot can set the Distance Fence parameters, and allow new pilots in training to fly the NovaX without any worries of flying too far away, or near any objects.

If 'Speed guided flying' bank is toggled to 'Sport' bank, or the pilot changes from GPS flight mode to any other flight mode during flying, then the Geo-Fence feature is also toggled 'off' automatically thus enabling the pilot to fly beyond the pre-set virtual barrier. If 'Speed guided flying' bank and GPS mode are toggled back 'on' again during that flight then the NovaX will hold its position, and can only be flown back into the pre-set barrier. It cannot be flown in any other direction until it has crossed the virtual barrier threshold.

#### **Height Fence Feature**

This feature is very similar to the previously explained Distance Fence Feature. Height Fencing is also controlled by the pilot via Eye Control App. This feature enables the pilot to restrict the maximum height that the NovaX can achieve. This feature, when toggled 'on' is active for the following flight settings: GPS (Position Hold Flight, Blue LED) Mode, and Mid-stick (Green) Mode.

If the pilot switches to 'Normal' flight mode during flying with the Height Fence feature enabled, then the Height fence is disabled. This enables the pilot to fly higher than the pre-set height barrier. If the pilot leaves Normal flight mode and the NovaX is above the virtual barrier then the NovaX Will automatically re-activate the Height Fence and descend down to the pre-set fence.

This feature is also a great training tool, it can also aid pilots to adhere to any flying regulations that may be implemented within your flying area. The pilot can set Height Fence parameters correctly, and allow new pilots in training to fly the NovaX without any worries of flying too high.



### **Return to Home Height Adjustment Feature**

This parameter can now be adjusted by the pilot using the Eye Control App. Prior to this feature the RTH height was fixed, and the current heading was locked during the complete RTH sequence.

This new feature enables pilots to choose their own default RTH height from a wide range. It also enables the pilot to choose a pre-selected heading while RTH is active. The pilot can choose from 'Front Facing away' and 'Front Facing toward'. If 'Front Facing away' is selected the NovaX will rotate its nose away from the home location prior to beginning its RTH flight. If 'Front Facing towards' is selected the NovaX will rotate its nose towards the home location.

The advantage to this feature is that the pilot loses orientation he can trigger RTH and wait for the NovaX to establish the pre-set heading. Once established flying can be resumed.

### **X3 Gimbal Enhancements**

In order to compensate for the additional weight of the X3 gimbal the firmware version 1.5 and up include a gimbal calibration feature.

A simple automated sequence is performed when the NovaX and X3 are powered on. Once recognized your NovaX flying characteristics will become optimized. With the X3 attached only GPS / Speed Guided Flight bank will be enabled. The front and rear LED will change to 'yellow' to indicate this mode. The pilot can choose to disable this limitation via the Eye Control app.

### **Illumination Kit**

The NovaX firmware now supports the control of the Illumination Kit by the Eye Control app.

### **Enhanced Retractable Gear Functionality**

If RTH is activated during flight the retractable gear will automatically return to the down position during the descending portion of the automated RTH cycle. This prevents any possible damage from occurring to the NovaX or attached payload (Gimbal, Camera, etc..)

### **General Over All Flight Characteristic Enhancements**

As technology continues to develop, so does your NovaX flight capabilities. Enhancements have been made to your NovaX flight characteristics offering pilots an even more 'Locked In' feeling during flight. Especially with additional payload.

### **New Telemetry Page Added To The NovaX Stock Transmitter**

A firmware upgrade is also available for the NovaX transmitter. Pilots can now enjoy a 2<sup>nd</sup> page of telemetry data feedback in real time from their NovaX.

Included in this second page of data are as below:

- Heading direction: Always know which way your NovaX is facing.
- Max Speed: Your NovaX records its fastest speed during flight.
- Long. / Lat. Coordinates: Valuable for knowing where you've been, or where you are currently.
- Sat Lock: Know for sure how good your GPS signal is by how many satellites are being acquired by your NovaX

TPCS: Future release firmware coming soon. This data will show the current TPCS status.



**[Download]**

NovaX350 Firmware v1.5: <http://www.rclogger.com/Support/Downloads/Firmware/>

EYE Loader: <http://www.rclogger.com/Support/Downloads/Software/>

R8 Radio Upgrade Pack: <http://www.rclogger.com/Support/Downloads/Firmware/>

**[Video Tutorials]**

NovaX 350 New Feature Overview (Firmware v1.5): <https://vimeo.com/144318550>

EYE Loader- Firmware Update: <https://vimeo.com/143193108>

RC Logger R8 Radio- Firmware Update: <https://vimeo.com/144410922>

X3 Gimbal- Calibration Feature Explained: <https://vimeo.com/144167022>

Should you have any questions, please feel free to contact us via [support.rclogger.com](mailto:support.rclogger.com).

Thank you.

**Best Regards,  
Your RCLogger team**