STORM Racing Drone Type-A

USER MANUAL

V1.2

DISCLAMIER

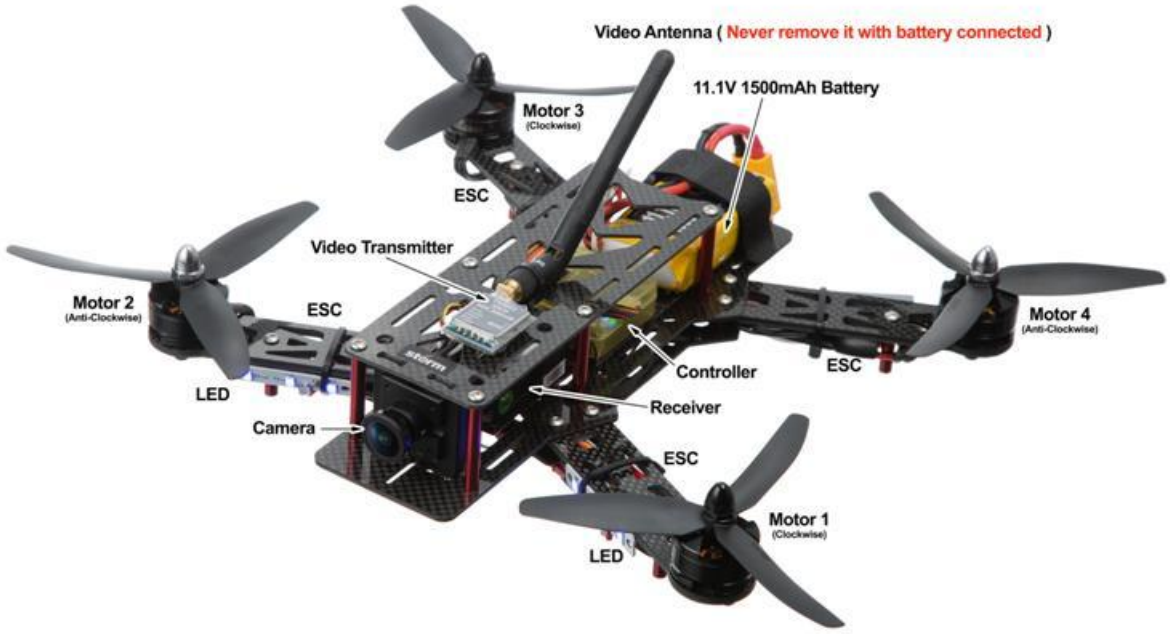
Please read this disclaimer carefully before using this product. This product is a hobby with motor but not toy which is not suitable for people under the age of 18. By using this product, you hereby agree to this disclaimer and signify that you have read them fully. You agreed that you are responsible for your own conduct and content while using this product, and for any consequences thereof.

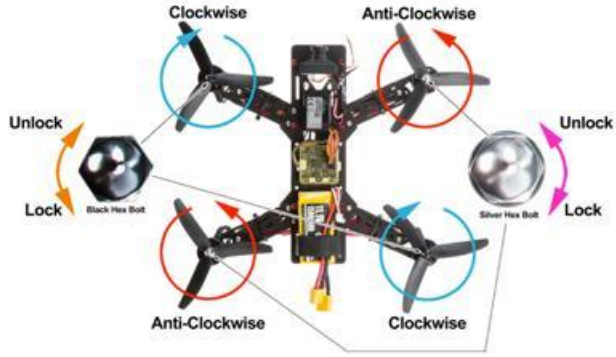
Before you fly the drone

1. Make sure all connections are good, and keep children and animals away during flying, firmware update, system calibration and parameter setup.
2. Always fly the drone away from unsafe conditions, such as obstacles, crowds, high-voltage lines, etc.
3. Do not use in bad weathers such as rainy day, snow, windy (more than moderate breeze), hail, lighting, tornadoes, hurricanes etc.
4. Check whether the propellers and the motors are installed correctly and firmly before flight. Make sure the rotation direction of each propeller is correct.
5. Check whether all parts of the drone are in good condition before flight. Do not fly with aging or broken parts.
6. Never overcharge LiPo batteries. Do not charge above 4.2V per cell. When the battery is fully charged, disconnect it from the charger. Never leave the battery charger unattended during charging.
7. Never discharge batteries to below 3.3V per cell
8. Remove batteries when not using the drone.

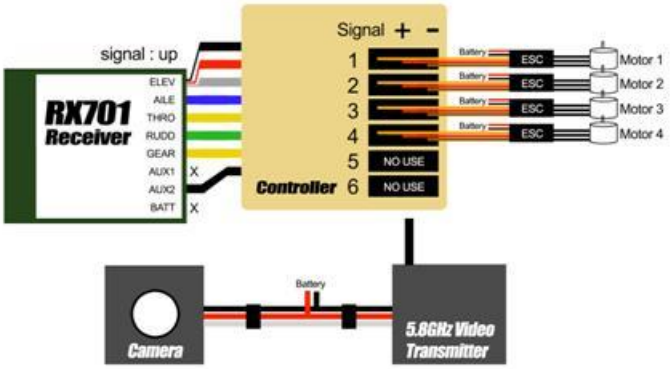
Package Includes

Circuit Diagram





Propellers & Hex Bolt Direction



Circuit Diagram

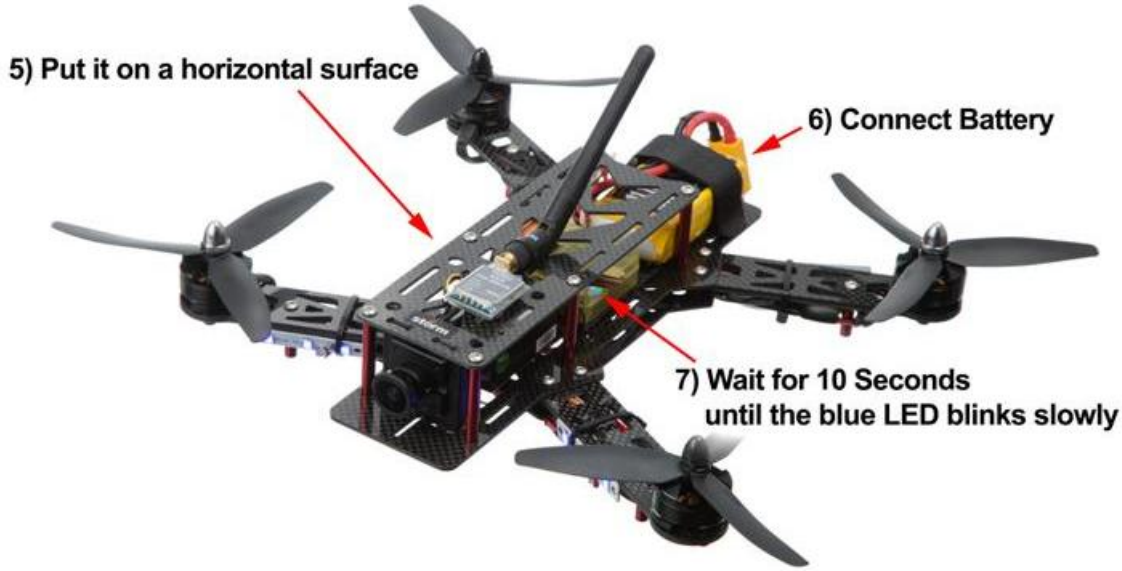
Mode 2 (Left Throttle)

(Standard)

Mode 1 (Right Throttle)

Quick Start Procedure

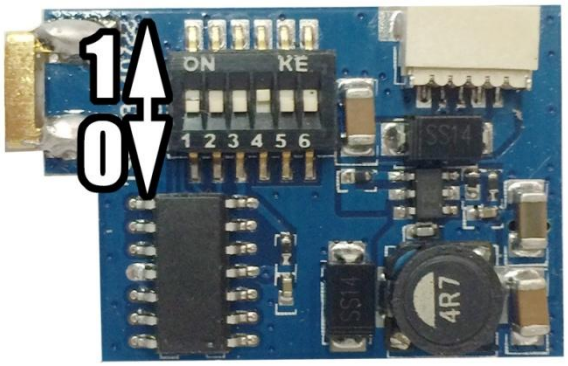
Mode 2 Transmitter (Left Throttle Stick)



Mode 2 Transmitter (Left Throttle Stick)

FPV System

Our TS5823 video transmitter has up to **32** different video channels available to avoid interference with other channels.



If two or more drones are flying at the same time, try to select different video frequency to avoid video interference. The bigger different in video frequency between drones, the less interference generated.

Default Setting is channel **5665M**.

Always check the supported channels of you FPV reception devices such as monitor, goggle

Frequency Table

Frequency	Switch (123456)	Frequency	Switch (123456)
5645MHz	001100	5805MHz	001110
5665MHz	101100 **(Default Channel)**	5809MHz	110010
5685MHz	011100	5820MHz	110000
5705MHz	111100	5825MHz	101110
5725MHz	000110	5828MHz	010010
5733MHz	111010	5840MHz	010000
5740MHz	111000	5845MHz	011110
5745MHz	100110	5847MHz	100010
5752MHz	011010	5860MHz	100000
5760MHz	011000	5865MHz	111110
5765MHz	010110	5866MHz	000010
5771MHz	101010	5880MHz	000000
5780MHz	101000	5885MHz	110100
5785MHz	110110	5905MHz	010100
5790MHz	001010	5925MHz	100100
5800MHz	001000	5945MHz	000100

Lost connection with radio controller

Inside the drone, there is a RX701 Receiver to connect your radio with controller to control the drone. If the LED indicator is flashing RED rapidly, then you need to do this re-binding step below:

1. Make sure you have NOTHING plugged into BATT port on the RX701 receiver.
2. On the transmitter, select MODEL > FIXED ID, press ENT, if it is showing the code, then press ENT again, press one more time till it is showing RUN, press "R" to choose NO, press ENT again, it's showing FIXID, press "R" again to choose OFF, then press EXT, and turn off transmitter.
3. Plug the bind plug into Batt port on the RX701 receiver, with this plug still in BATT port and power up the drone, you will see receiver flashing red slowly, then means old code has been erased, unplug drone battery and remove this bind plug.
4. Now you need to activate the Fixed ID function. Turn on transmitter, and then make sure Throttle Stick is all the way down, all trimming is neutral, both corner FMOD switch and Throttle Switch is off (pointing backward) and all switches on the transmitter pointing upward then turn off transmitter.
5. Connect drone battery; the receiver will start flashing, place drone on flat surface.
6. Turn on transmitter, you should see black box running on the transmitter screen, do not touch anything or you will break the searching mode.
7. Do not touch anything (around 7-10 seconds) until transmitter stop flashing and you will see the RX701 receiver have solid light that means binding has completed.
8. On the transmitter, go to MODEL > FIXED ID, turn it ON, then press DN button to confirm the code, then press ENT, and press ENT again to confirm, it will ask you to RUN, choose YES and press ENT. From now on your receiver is bound to this memory on your DEVO 7.

Radio Controller Parameters

If you reset your radio controller (Devo 7) setting, you can apply the setting below:

1. [MODEL] > [TYPE] > AERO
2. [MODEL] > [INPUT] > FM SW = INH
   [MODEL] > [INPUT] > HLDSW = HOLD
3. [MODEL] > [OUTPUT] > GEAR = FMD and ACT
   [MODEL] > [OUTPUT] > FLAP = MIX and ACT
   [MODEL] > [OUTPUT] > AUX2 = AUX2 and ACT
4. [MODEL] > [AMPLI] > +20
5. [FUNCTION] > [REVSW] > ELEV = NORM
   [FUNCTION] > [REVSW] > AILE = NORM
   [FUNCTION] > [REVSW] > THRO = NORM
   [FUNCTION] > [REVSW] > RUDD = NORM
   [FUNCTION] > [REVSW] > GEAR = NORM
   [FUNCTION] > [REVSW] > FLAP = NORM
   [FUNCTION] > [REVSW] > GYRO = NORM
6. [FUNCTION] > [TRVAD] > ELEV = U100% / D100%
   [FUNCTION] > [TRVAD] > AILE = L100% / R100%
   [FUNCTION] > [TRVAD] > THRO = H100% / L100%
   [FUNCTION] > [TRVAD] > RUDD = L100% / R100%
   [FUNCTION] > [TRVAD] > GEAR = +100% / -100%
   [FUNCTION] > [TRVAD] > FLAP = U100% / D100%
   [FUNCTION] > [TRVAD] > GYRO = +100% / -100%
7. [FUNCTION] > [SUBTR] > ELEV = 0%
   [FUNCTION] > [SUBTR] > AILE = 0%
   [FUNCTION] > [SUBTR] > THRO = 0%
   [FUNCTION] > [SUBTR] > RUDD = 0%
   [FUNCTION] > [SUBTR] > GEAR = 0%
   [FUNCTION] > [SUBTR] > FLAP = 0%
   [FUNCTION] > [SUBTR] > GYRO = 0%
8. [FUNCTION] > [SAFE] > ELEV = HOLD
   [FUNCTION] > [SAFE] > AILE = HOLD
   [FUNCTION] > [SAFE] > THRO = SAFE/L100%
   [FUNCTION] > [SAFE] > RUDD = HOLD
   [FUNCTION] > [SAFE] > GEAR = HOLD
   [FUNCTION] > [SAFE] > FLAP = HOLD
   [FUNCTION] > [SAFE] > GYRO = HOLD