

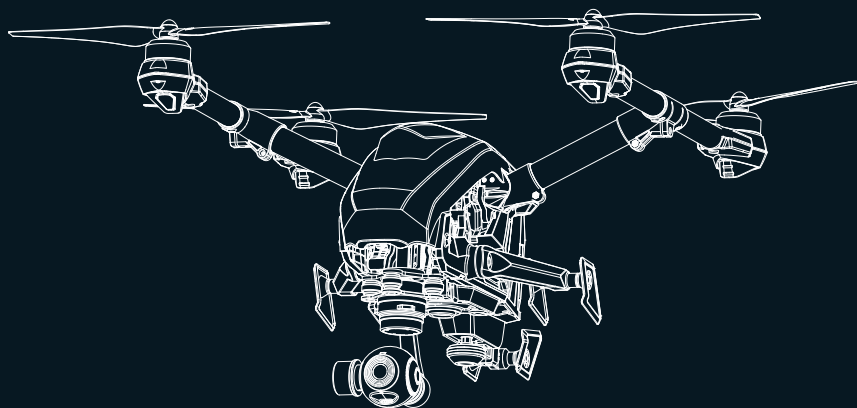
deUvention

VOYAGER 3

TRANSMUTABLE QUADCOPTER

Match with **DEVO F12E Radio**

Quick Start Guide and Systems Flowchart



www.walkera.com

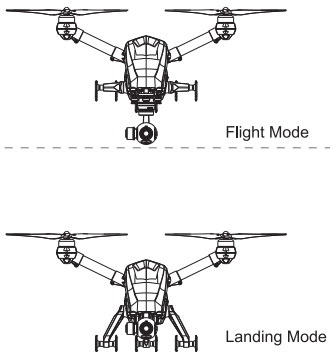
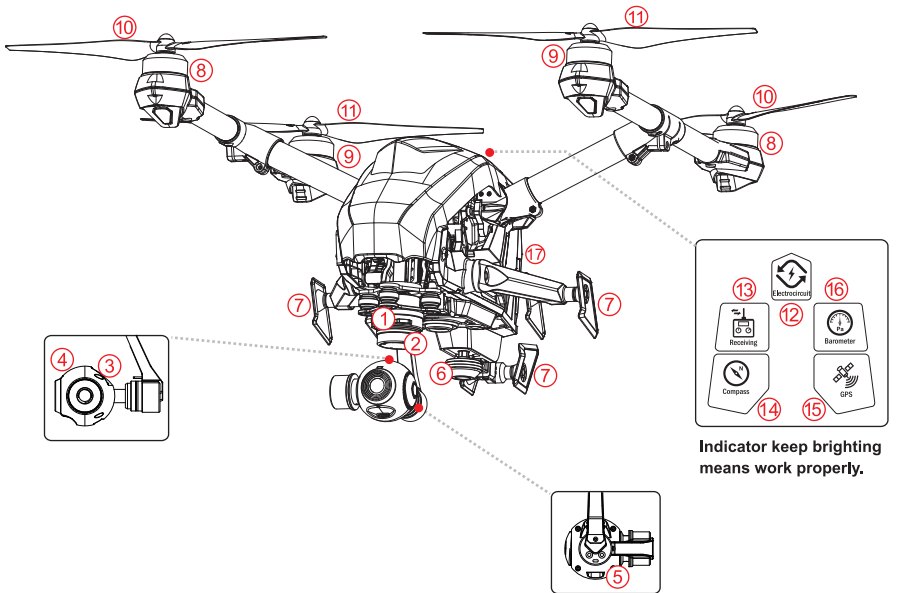
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1.0 Preparation before flying

1.1 Get to know your VOYAGER 3

- Electronic components adopting modular design, easy to connect and install.
- A new generation flight control system built-in, provide stable flight performance.
- Insert 5.8G image transmit system and OSD system, can get image and OSD information easily.
- Adopting indicator light on GPS, Compass, barometer and other parts, observation more intuitive.






1. Gimbal lock
2. Replaceable integrated camera gimbal
3. Camera Micro-SD card slot
4. Indicator
5. Camera Data port
6. TX Mushroom antenna
7. Skid landing
8. Counterclockwise motor (dextrogyrate thread is clockwise)
9. Clockwise motor (levogyrate thread is counterclockwise)
10. Counterclockwise propeller
11. Clockwise propeller
12. Electrocircuit detecting light
13. Receiving detecting light
14. Compass detecting light
15. GPS detecting light
16. Barometer detecting light
17. Smart aircraft battery

VOYAGER 3

1.2 Get to know your DEVO F12E Radio (black version)

Integrated with 5.8G image transmitting system, it's convenient to receive aerial photos, and equipped with swithes for Auto Takeoff, One key Return To Home, control camera/Gimbal/Landing skid functions, easy to operate.

Mode 2 (Throttle stick on the left)	Left stick	THRO/RUDD stick
	Right stick	ELEV/AILE stick
	Left trim	THRO trim
	Right trim	ELEV trim
Mode 1 (Throttle stick on the right)	Left stick	ELEV/RUDD stick
	Right stick	THRO/AILE stick
	Left trim	ELEV trim
	Right trim	THRO trim

(0) Manual Mode	(1) GPS-hold Mode	(2) Return TO Home
		
MIX Switch to "0"	MIX Switch to "1"	MIX Switch to "2"

1. 2.4G TX antenna

2. RUDD D/R - AUTO Takeoff switch

3. GEAR - Landing Gear Retract Switch and Deploy landing gear

4. ELEV D/R - IOC control switch
Intelligent Orientation Control

5. AUX5 - Gimbal horizontal control

6. Left trim

7. Left stick

8. RUDD trim

9. UP key

10. DN key

11. EXT key
12. 5.8G RX antenna

13. FMODE - Round flight mode

14. MIX(Control Mode Switch)

15. AILE D/R - Camera Start/Stop

16. AUX6 - Gimbal pitch control

17. Right stick

18. Right trim

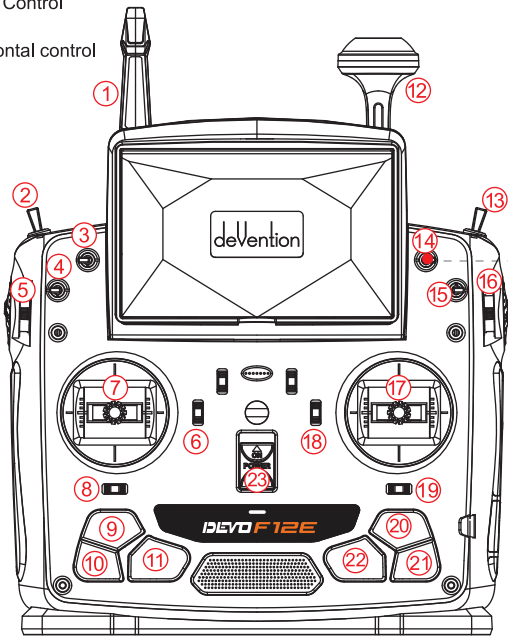
19. AILE trim

20. R key

21. L key

22. ENT key

23. Power switch

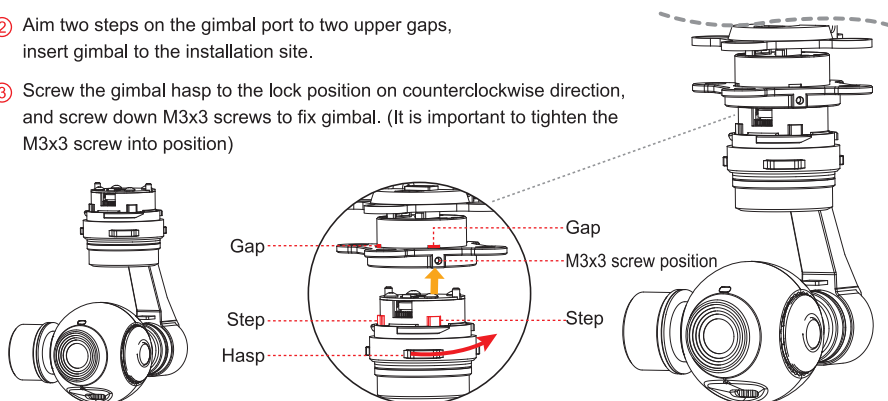


*Please refer to DEVO F12E manual

1.3 Assemble the VOYAGER 3

● Assemble gimbal and camera

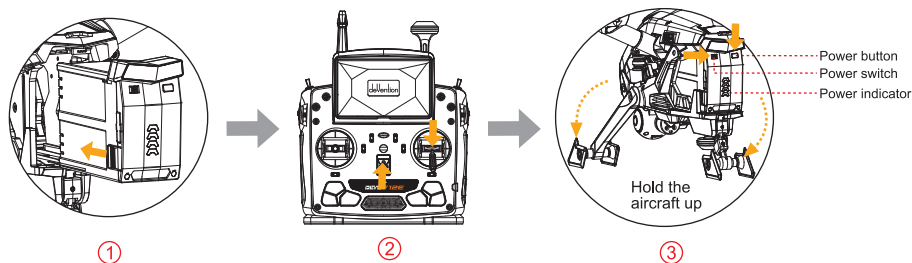
- ① Prepare gimbal and camera
- ② Aim two steps on the gimbal port to two upper gaps, insert gimbal to the installation site.
- ③ Screw the gimbal hasp to the lock position on counterclockwise direction, and screw down M3x3 screws to fix gimbal. (It is important to tighten the M3x3 screw into position)



● Skid landing reset

To save shipping cost, the factory default of the aircraft skid landing is Collapsed, please power on to reset before using, and do not use force to flip.

- ① Put the smart aircraft battery into the aircraft.
- ② **Put all the function switches to the 0 position, put all trims/knobs to the Middle position,** move the throttle stick to the lowest position, then turn on the radio.
- ③ Hold the aircraft up, turn the power switch to "ON", then press the power button for 3-5 seconds until the green power indicator lights up. (The landing skids automatically extend.)

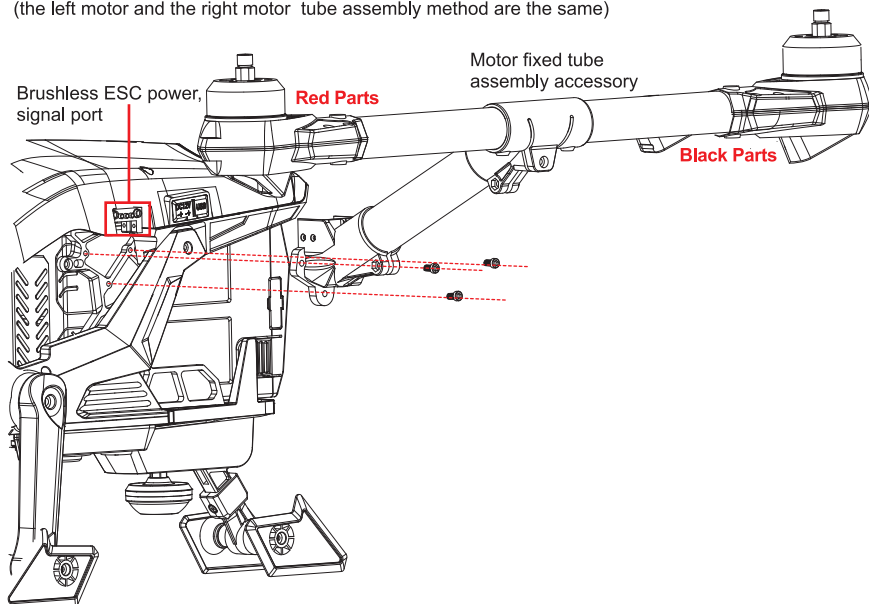


- ④ For the sake of safety, after skid landing reset, please turn off the drone power first, and then turn off the transmitter power, and then do the assembling as below.

VOYAGER 3

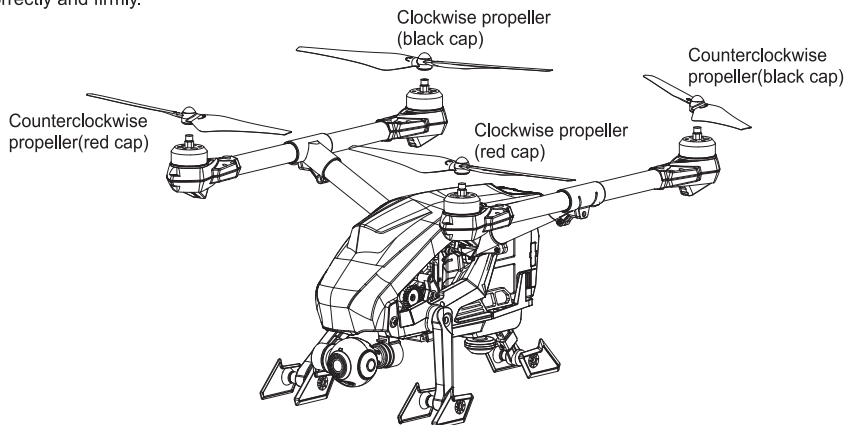
● Installing the motor fixed tube accessories

- ① Install the **red part of fixed tube for motor front of Voyager 3**, black part on tail of it.
- ② Align the brushless ESC power, signal port and screw into the hole with a locking screw M3x10(qty 3) fixed. (the left motor and the right motor tube assembly method are the same)



● Propeller installation

Install the clockwise propeller (red/black cap) on clockwise motor (levogyrate thread is counterclockwise) in counterclockwise direction, while install the counterclockwise propeller (red/black cap) on counterclockwise motor (dextrogyrate thread is clockwise) in clockwise direction, then Make sure the propellers are installed correctly and firmly.



1.4 Learn how to fly safely

- (1) This product is suitable for people who has flight experience of model plane and older than 14-year-old.
 - (2) Do not fly in bad weather, such as windy, snowy, foggy weather, etc..
 - (3) Select an open area, no-tall-buildings area. Extensive use of steel buildings will affect the compass work, blocking the GPS signal, causing worse on the aircraft positioning effect or even not able to locate.
 - (4) Please stay away from high-speed revolving parts(such as propellers and motors) during flight.
 - (5) When flying, please keep the drone in sight control, away from obstacles, people, water and so on.
 - (6) Do not fly it in where there is high-voltage lines, communication base stations or towers, in order to avoid interference by the remote control.
 - (7) Please don't fly it in no-fly zone. Make sure the follow your local rules and regulations.
 - (8) Flight performance will be effected when you fly it with above the altitude of 4500 meters, as the battery and gravity system will be influenced.
-

1.5 Specifications

● Aircraft specifications

Main Rotor Dia.: 346mm

Overall (L x W x H): 473 x 463 x 300mm

Weight: 3650g (Battery included)

Transmitter: DEVO F12E(black version)

Receiver/Main Controller: FCS-RX701(FCC)/FCS-RX702(CE)

Brushless Motor: WK-WS-42-002

Brushless ESC: Voyager 3 (R/B)

2.4G Bluetooth Datalink: BT-2403A(FCC) & BT-2401B(FCC) / BT-2404A(CE) & BT-2402B(CE) - Android system
BT-2403A(FCC) & BT-2403B(FCC) / BT-2404A(CE) & BT-2404B(CE) - Apple IOS system

Battery: 29.6V 3000mAh 10C(8S) LiPo x2

Flight Time: Approximately 25 minutes

Working environment: -10℃ ~ +40℃

● Gimbal specifications

Control accuracy: 0.02°

Control range: Pitch rotation -120°~+60°;

Horizontal ±360° continuous rotation

● Camera specifications

a. Video

- Video Resolution: 3840 x 2160 15fps
- Micro High Speed SD card: Max 64G
- Video Format: MOV
- Photo: 4608x3456 Pixels

b. 5.8G wireless

- 5.8G wireless image transmission
- FCC Bind B section: 4 channels
- CE Bind B section: 8 channels
- FCC Output Powers≤200mW
- CE Output Powers≤25mW

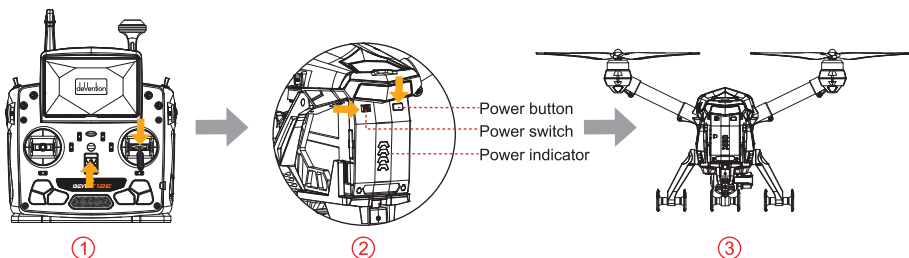
VOYAGER 3

2.0 Ready for flight

Put the model plane to outdoor an open area, and the user face tail of it.

2.1 Binding of the VOYAGER 3

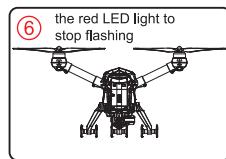
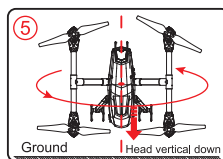
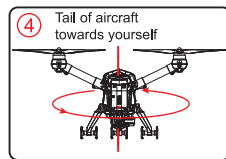
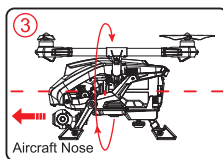
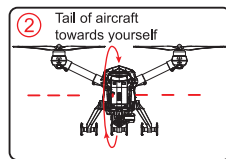
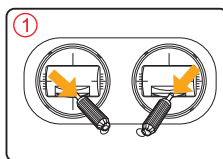
- ① Put all the function switches to the 0 position, put all trims/knobs to the Middle position, move the throttle to the lowest position, then turn on the radio.
- ② Turn the power switch to "ON", then press the power button for 3-5 seconds until the green power indicator lights up.
- ③ Within approx. 40 sec, the red LED light will stop flashing indicating that the code binding has finished.



2.2 Compass Calibration

IMPORTANT: Make sure all TRIMs are in the center position, the trim value should be "0", and the motors are locked. The aircraft should NOT be flashing RED. By default, the motors will automatically be locked after the ID binding process. For more details about locking and unlocking motors, see points (2.4).

- ① Enter the calibration mode Do this by moving both sticks DOWN and to the middle position at the same time. The aircraft will start a blinking fast RED.
- ② FORWARD rotation. Smoothly rotate the aircraft forward in 90 degree increments, pausing for 1 second every 90 deg. (0 / 90 / 180 / 270 / 360)
- ③ CLOCKWISE rotation. Rotate the aircraft around the roll axis smoothly in 90 deg increments. Pausing 1 second for each 90 deg. (0 / 90 / 180 / 270 / 360)
- ④ HORIZONTAL rotation. Rotate the aircraft around the YAW axis smoothly in 90 deg increments. Pausing 1 second for each 90 deg. (0 / 90 / 180 / 270 / 360)
- ⑤ NOSE DOWN rotation. Rotate the aircraft facing the nose down. rotate smoothly in 90 deg increments. Pausing 1 second for each 90 deg. (0 / 90 / 180 / 270 / 360)
- ⑥ Place the aircraft in normal position. The rapid RED blinking will stop. This indicates that the calibration is finished. Disconnect the battery to save the settings.



2.3 GPS indicator lights

GPS Satellites	<6	6	7	8	9	10	11	12	13
The blue LED status	No blinking	Blinking once	Blinking 2 times	Blinking 3 times	Blinking 4 times	Blinking 5 times	Blinking 6 times	Blinking 7 times	Blinking 8 times

IMPORTANT: For SAFE flight in GPS flight mode:

The BLUE indicator light should at least “double” blink, (two blinks at a time).

It is highly recommended that you wait for “triple blink” 8 statelites before starting the flight.

NEVER attempt to AUTO-START with less than “triple blinks”

2.4 Motor Unlock / Lock

● Motor Unlock

After binding the DEVO F12E to the Voyager 3, Check that all trims are neutral, the throttle stick is ALL the way Down with the display indicating 0% throttle. Check that ALL switches are in the UP position.

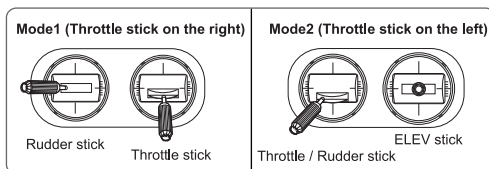
Note: that you can start the motors in the Manual Mode or the GPS-HOLD MODE.

Gently push the throttle stick down and move the rudder (YAW) stick to the left side.

(on mode 2 radios throttle and rudder is the same stick)

You will see the RED indicator LED turn on, indicating that motors are unlocked.

Be very careful at this point, as pushing the throttle up will start the motors. You can test by pushing the stick up a little, the motors should start. For your safety, the motors will dis-arm again after 10seconds.



● Motor Lock

Lock the motors by moving the throttle stick all the way down and the rudder (YAW) stick all the way to the right.

The RED LED light will go out when the motors are disarmed.

TEST: push the throttle stick up a little, the motors will not start when locked.

NOTICE:

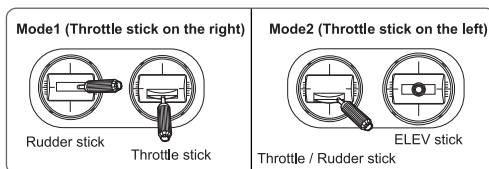
* The motors are LOCKED by default after successful binding.

* **Motors can be unlocked or locked in GPS-hold mode.**

if you land in GPS mode, move the “MIX” switch to position “0” or position “1”



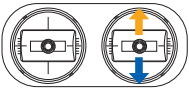
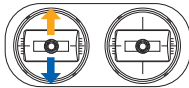


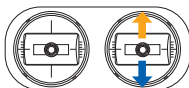

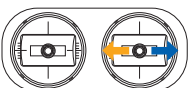

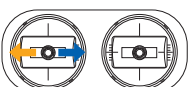








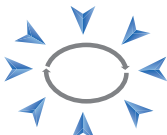



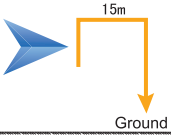


before locking the motors, make sure you wait until the Voyager 3 is safely

on the ground before changing the switch to “0” (manual) while changing, make sure to keep the throttle DOWN to prevent motors from starting.



VOYAGER 3


2.5 Operation Instruction

Model ( is the nose direction)	Mode1 (Throttle stick on the right)	Mode2 (Throttle stick on the left)
THROTTLE Up/down 		
PITCH Forward/backward 		
ROLL (lean) Left / right 		
YAW (turn) Left / right 		
AUTO Take Off You should have triple blink = 8sats for this feature.  Ground	 MIX Switch to "0" →  move throttle down →  MIX switch to "1" position →  RUDD D/R switch to "1" position	
GPS hold mode In this mode, maneuver by moving the controls, and simply let go of the controls and the VOYAGER 3 will hold its position. NOTE: You must CENTER the throttle stick for altitude hold  Ground	 MIX switch to "1" position →  Throttle stick return neutral	DO NOT switch to manual before landing. It is safer to land in GPS hold mode, then switch to manual AFTER landing to lock motors
ROUND FLY mode This mode is used for making circles around an object of interest. RADIUS is set in the F12E menu by adjusting Position 2 value for AUX3 	 MIX switch to "1" position →  Move FMOD switch to "2" The Round Fly will start →  Move FMOD switch to "0" The Round Fly will stop	
RETURN TO HOME Activating this feature will cause the VOYAGER 3 to climb to 15m and fly to the starting location and proceed to land.  15m Ground	 Throttle stick neutral →  MIX switch to "2" position	You can stop RTH by switching to GPS hold. MAKE SURE the throttle stick is set to 50% when switching. NEVER switch to MANUAL from RTH, this can cause a crash.

2.6 DEVO F12E Radio function setup and operation instructions

Function	Switch	Transmitter setting	Instructions
AUTO TakeOff	RUDD D/R	Model Menu ↓ Device Output ↓ Flap ↓ RUDD D/R ↓ Active	Place aircraft on level ground → Unlock Motors → Move throttle stick to lowest position → Set MIX switch to "1" Position → Set RUDD D/R switch to "1" Position IMPORTANT: ONLY use this function with BLUE TRIPLE blink = 8 or more satellites, AUTO takeoff with less satellites may result in a crash. AFTER completing auto-take-off, you can take control by moving the throttle stick to 50%, then flip the RUDD D/R switch to "0" position.
GPS hold mode	MIX SW	Model Menu ↓ Device Output ↓ Gear ↓ MIX SW ↓ Active	"0" position: Manual mode "1" position: GPS hold mode "2" position: Return To Home MIX switch to "1" position → Throttle stick return neutral NEVER use this mode with less than 8 satellites locked, you should see BLUE TRIPLE BLINK. Before switching mode, always put the throttle stick to middle position (50%). IF the GPS signal degrades, the VOYAGER 3 will automatically enter "Altitude hold mode" note in this mode it will drift, but will hold its altitude. After flying 50% of the battery, do NOT switch from GPS mode to Manual, this may cause a sudden drop / crash. You can land in GPS mode, after landing, keep the throttle stick DOWN and switch to manual, then lock the motors.
Round Fly Mode	FMOD	Model Menu ↓ Device Output ↓ AUX3 ↓ FMOD SW ↓ Active	"0" Position: OFF "1" Position: Not in use "2" Position: activate Round Fly This mode require 8 satellites locked, you should see BLUE TRIPLE BLINK. Before activating the round-fly mode, you should be in "GPS hold mode" always put the throttle stick to middle position (50%) The default roundfly radius is 5 meters (15 feet), You can change the Round Fly radius by editing the AUX3 EPA (End Point Adjustment) on the F12E transmitter, for details on editing EPA settings, see the F12E instruction manual. After having changed the setting, you should turn FMOD switch to "0" position to save the data, then return to "2" position to read the new Roundly radius.
Return TO Home	MIX SW	Model Menu ↓ Device Output ↓ Gear ↓ MIX SW ↓ Active	"0" position: Manual mode "1" position: GPS hold mode "2" position: Return To Home Throttle stick return neutral → MIX switch to "2" position The Return To Home mode, will only work when you have a solid GPS lock, it is recommend that you avoid flying if GPS lock is missing. After engaging Return to Home mode, leave the throttle stick at 50% (centered) DO NOT touch any switches on the F12E radio. To REGAIN control of the VOYAGER 3, make sure the throttle is centered, then flip the MIX switch to position "1". In an emergency such as losing the control link between the F12E and the VOYAGER 3, the Failsafe system will automatically start RTH. You may not be able to interrupt an emergency RTH, simply let the aircraft continue until it lands.

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Function	Switch	Transmitter setting	Instructions
Hyper IOC Mode	ELEV D/R	Model Menu ↓ Device Output ↓ AUX2 ↓ ELEV D/R ↓ Active	 <p>IOC or Intelligent Orientation Control mode means that the aircraft's flight direction is only relative to the original take-off point (where you armed the motors). REGARDLESS of the actual aircraft heading, in this mode you can fly past something and pan the aircraft to frame your shot, without having to worry what direction the aircraft is facing.</p> <p>ELEV D/R switch "0" position: IOC OFF "1" position: IOC ON</p> <p>The IOC mode requires a strong GPS lock, you should have triple blinks on the blue GPS indicator light.</p> <p>IOC is inactive if the VOYAGER 3 is less than 10 meter (30 feet) from the original take-off position, (point where you armed the motors)</p> <p>Fly the VOYAGER 3 manually beyond 10 meters using the GPS mode, then activate the IOC mode, the VOYAGER 3 will now fly IOC until you change the mode, you can pan freely for video shots, when you push the stick right or left, the VOYAGER 3 will move sideways relative to the original take-off position. Pushing the pitch stick up will push the Scout VOYAGER 3 away from you, pulling the stick back brings the VOYAGER 3 back to the starting point. When flying in IOC mode, you can make the VOYAGER 3 return to the starting point simply by pulling the stick toward you.</p> <p>WARNING: The IOC turns off when the aircraft gets closer than 10meters to the take off point. Be prepared for this, as the system will switch back to GPS hold mode at that point. This switch can cause confusion if the pilot are not prepared.</p>
Extend/Retract of Landing Gear	GEAR	Model Menu ↓ Device Output ↓ AUX4 ↓ GEAR SW ↓ Active	<p>"0" Position: Extend landing Gear</p> <p>"1" Position: Retract landing Gear</p> <p>NOTE: REMEMBER your landing gear, it is easy to forget the landing-gear when flying FPV. It's not a good idea to land on your camera. When activating the RTH (Return To Home) system, either by the pilot or by the failsafe system, the VOYAGER 3 will automatically extend the landing gear to protect your camera and make sure the VOYAGER 3 lands safely.</p> <p>You can not change the landing gear after the VOYAGER 3 has been automatically extended for landing. You must land and then lock / unlock motors.</p>

3.0 End flight

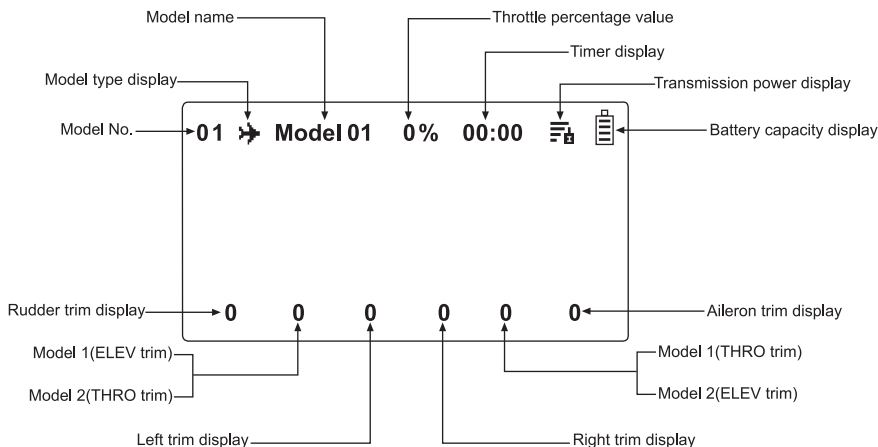
- ① Manual landing or back home function landing.
- ② First, power off aircraft battery, then power off radio battery.
- ③ Take the battery out of aircraft.

4.0 Additional remark

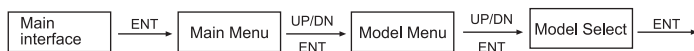
4.1 DEVO F12E (Black version) settings –

It is Single Radio Control mode in the factory default

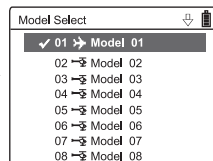
● Boot Screen(Main interface)



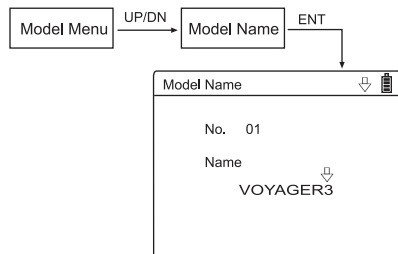
● Model Select



Press the UP or DN button to select the stored model number. For example "Model 01", press EXT to return back to the "Model Menu" after finished.

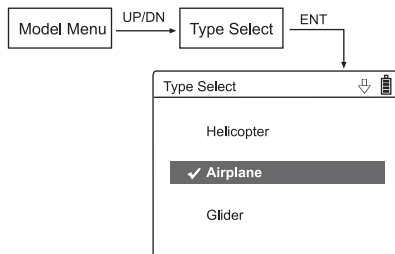


● Model Name



Press UP or DN button to select the characters which need to be changed, Named model "VOYAGER3". Press EXT to return to the "Model Menu".

● Type Select



Select the model type with the R or L button, and ENT to confirm and return to the "Model Menu".

VOYAGER 3

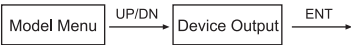
● Wing Type



Press R or L to select "Normal", then press EXT to return to the "Model Menu".

Wing Type	
Wing Type	Normal
V-Tail	Inhibit
Dual Channels	Inhibit
Mate	Inhibit
Trim	Inhibit
Twin Engine	Inhibit
Trim	Inhibit

● Device Output

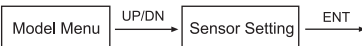


Press EXT to return to the "Model Menu" after finished.

Device Output	
Gear	MIX SW
	Active
Flap	RUDD D/R
	Active
AUX2	ELEV D/R
	Active
AUX3	FMOD SW
	Active

Device Output	
AUX4	GEAR SW
	Active
AUX5	AUX5 KB
	Active
AUX6	AUX6 KB
	Active
AUX7	AILE D/R
	Active

● Sensor Setting



Press R or L to select "Active".

Sensor Setting	
Status	Active
No Signal	Inhibit
Sensor Submenu	
	Voltage
	Temperature
	GPS Setting

(1) Voltage Setting

Press UP or DN to select Voltage in the Sensor Setting. Press ENT to enter the Voltage interface.

Voltage	
Internal: V0	Inhibit
External: V1	Active
	28.3V
External: V2	Inhibit

Internal shows the Radio battery voltage.

External shows the aircraft battery voltage.

**VOYAGER 3 default setting is 28.3V,
Fly the copter back ASAP if you get a warning!**

(2) GPS Receive Setting

Press UP or DN to select the GPS setting on the Sensor Setting interface, then press ENT to enter the GPS Setting interface.

GPS Setting	
Altitude Type	Relative
Speed Unit	Km/h
Date Type	DD-MM-YY
Time Zone	UTC+08:00

(2.1) Altitude Type setting:

Press R or L to select Absolute or Relative.

(2.2) Speed Unit setting:

Press R or L to select Km/h or Knot.

(2.3) Date Type setting:

Press R or L to select DD-MM-YY\ MM-DD-YY\ YY-MM-DD.

(2.4) Time Zone:

Press R or L to select Time Zone, then press EXT to return to the "Main Menu".

• Reverse Switch

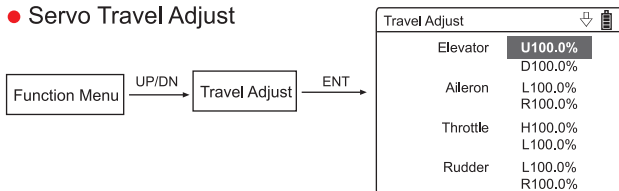


Reverse Switch	
Elevator	Normal
Aileron	Normal
Throttle	Normal
Rudder	Normal
Gear	Normal
Flap	Normal
AUX2	Normal
AUX3	Normal

Reverse Switch	
AUX4	Normal
AUX5	Normal
AUX6	Normal
AUX7	Normal

Press EXT to return back to the
“Function Menu” after finished.

• Servo Travel Adjust



Press UP or DN to select Flap channel,
Press R or L to set as **U150.0%** and **D150.0%**.

Press UP or DN to select AUX3 channel,
press R or L to set **+5.0%**(5 means Roundfly radius is 5 meters)
and **-100.0%**, then press EXT to return Function Menu.

Travel Adjust	
Elevator	U100.0%
	D100.0%
Aileron	L100.0%
	R100.0%
Throttle	H100.0%
	L100.0%
Rudder	L100.0%
	R100.0%
Gear	+100.0%
	-100.0%
Flap	U150.0%
	D150.0%
AUX2	+100.0%
	-100.0%
AUX3	+5.0%
	-100.0%

Travel Adjust	
AUX4	+100.0%
	-100.0%
AUX5	+100.0%
	-100.0%
AUX6	+100.0%
	-100.0%
AUX7	+100.0%
	-100.0%

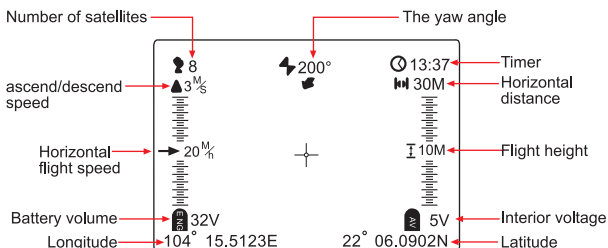
• Video Setting/OSD information



Status: Press R or L to select “Active”.

Channel: Press R or L to choose the video channel corresponding to
the camera. It will display automatically "OSD" after connection.

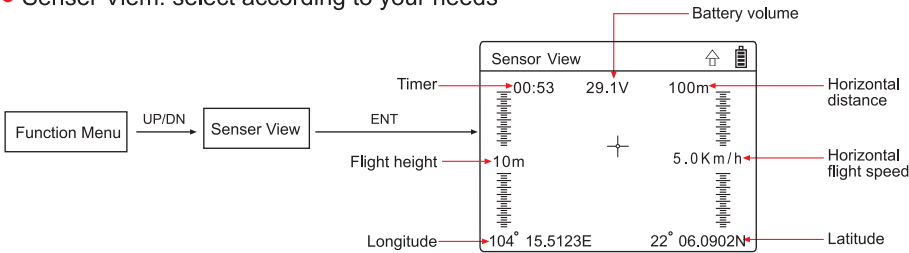
Video Setting	
Status	Active
Channel	1/32
Background	Active



Background:
Press R or L to select Active,
Real-time image will be set
as background in Main Menu.

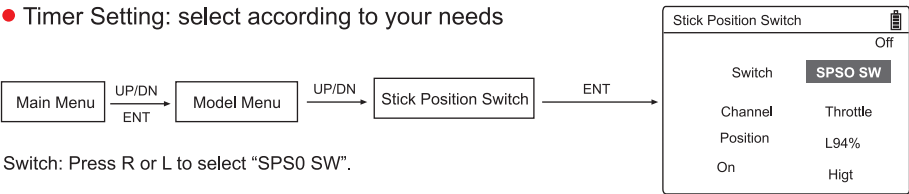
Press EXT to switch full screen
or half screen to display image
and OSD information when in
the main interface

● **Senser Viem:** select according to your needs



Press R or L to select viewport display. When the image is set as the background, Information will be displayed on the image.

● **Timer Setting:** select according to your needs



Switch: Press R or L to select “SPSO SW”.

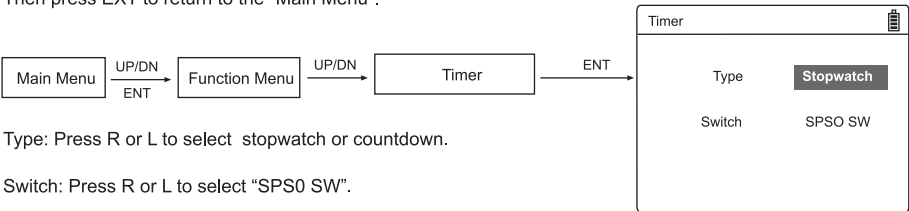
Channel: Press R or L to select “Throttle”.

Position: Press L to set percentage(Suggested setting is L94%).

On setting: Press R or L to select “High” as rocker direction for on.

Move up and down of the throttle to check if the direction of the switch is set correctly.

Then press EXT to return to the “Main Menu”.

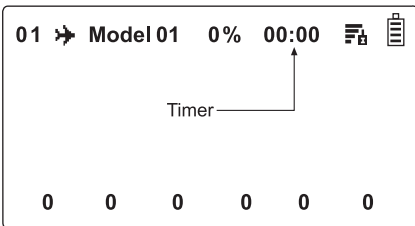


Type: Press R or L to select stopwatch or countdown.

Switch: Press R or L to select “SPSO SW”.

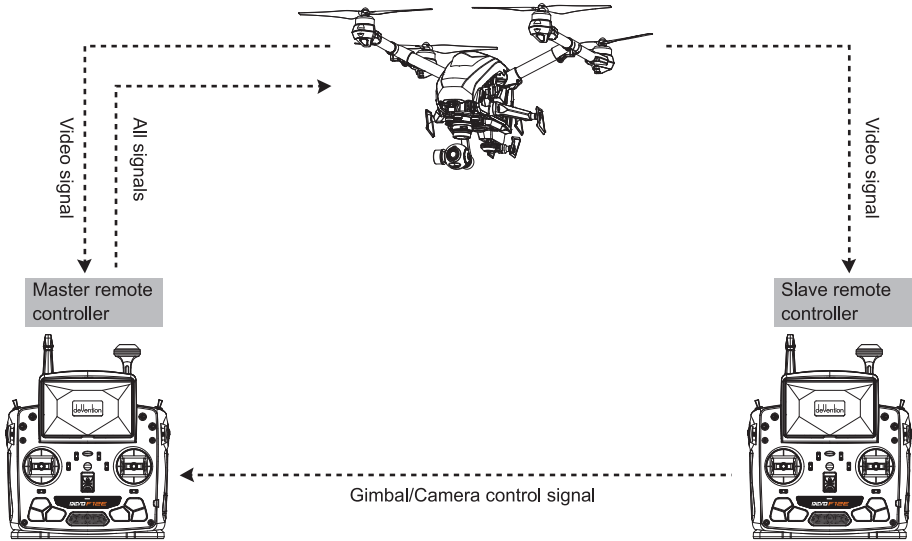
Press EXT to return back to the main interface when finished.

Usage: Toggle the throttle up to L94% to start the time, toggle the throttle down to L94% to stop the time, press DN to reset.



4.2 DEVO F12E(Black version) Dual Remote Controllers mode – DIY as needed

Voyager 3 radio can support Dual Remote Controller mode. Two pilots can control at the same time the same aircraft. under this mode, the master can control the drone while the slave remote controller can ONLY control the gimbal to take pictures or shot videos.



• Setting up Dual Remote Controllers mode



Tips: when the remote controller's setting shows dual -connecting, following functions can't be available, Auto takeoff, Hyper IOC mode, Round Fly mode.

Dual Remote Controllers mode is turned off in factory defaults. Setting instructions are as follows before activating Dual Remote Controllers mode.

a. Mission Planner CH7 (Do nothing) setting methods:

Connect the main control board(FCS-RX701/FCS-RX702) and computer by the USB cable. Double click Mission Planner.exe and run Mission Planner software.



VOYAGER 3

b. Device Output

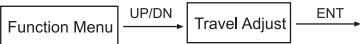


Press UP or DN to select **Flap, AUX2, AUX3** channel, Press R or L to select AILE D/R, AUX5 KB, AUX6 KB. Then press the EXT back to Main Menu.

Device Output	
Gear	MIX SW Active
Flap	AILE D/R Active
AUX2	AUX5 KB Active
AUX3	AUX6 KB Active

Device Output	
AUX4	GEAR SW Active
AUX5	AUX5 KB Active
AUX6	AUX6 KB Active
AUX7	AILE D/R Active

c. Servo Travel Adjust



Press UP or DN to select **Flap** channel, Press R or L to set as **U100.0% and D100.0%**.

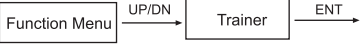
Press UP or DN to select **AUX3** channel, Press R or L to set as **+100.0% and -100.0%**, then press EXT to return Function Menu.

Travel Adjust	
Elevator	U100.0% D100.0%
Aileron	L100.0% R100.0%
Throttle	H100.0% L100.0%
Rudder	L100.0% R100.0%

Travel Adjust	
Gear	+100.0% -100.0%
Flap	U100.0% D100.0%
AUX2	+100.0% -100.0%
AUX3	+100.0% -100.0%

Travel Adjust	
AUX4	+100.0% -100.0%
AUX5	+100.0% -100.0%
AUX6	+100.0% -100.0%
AUX7	+100.0% -100.0%

d. Trainer



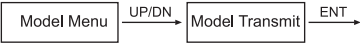
Press UP or DN to select Switch, press R or L to select "Right Trim".

Press UP or DN to select Falp, AUX2, AUX3, and press R or L to select "Active". Then press EXT to return to the "Main Menu".

Trainer	
Switch	Right Trim
Elevator	Inhibit
Aileron	Inhibit
Throttle	Inhibit
Rudder	Inhibit
Gear	Inhibit
Flap	Active
AUX2	Active
AUX3	Active

e. slave remote controller data wireless copy

● Master remote controller



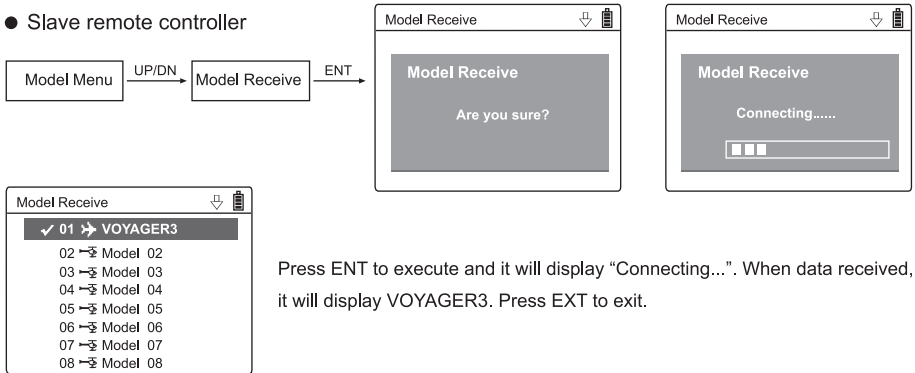
Model Transmit	
✓ 01 → VOYAGER3	
Warning	
No. 01 → VOYAGER3 01	
Transmitting.....	
07 → Model 07	
08 → Model 08	

Model Transmit	
✓ 01 → VOYAGER3	
02 → Model 02	
03 → Model 03	
04 → Model 04	
05 → Model 05	
06 → Model 06	
07 → Model 07	
08 → Model 08	

Model Transmit	
✓ 01 → VOYAGER3	
Warning	
No. 01 → VOYAGER3 01	
Are you sure?	
07 → Model 07	
08 → Model 08	

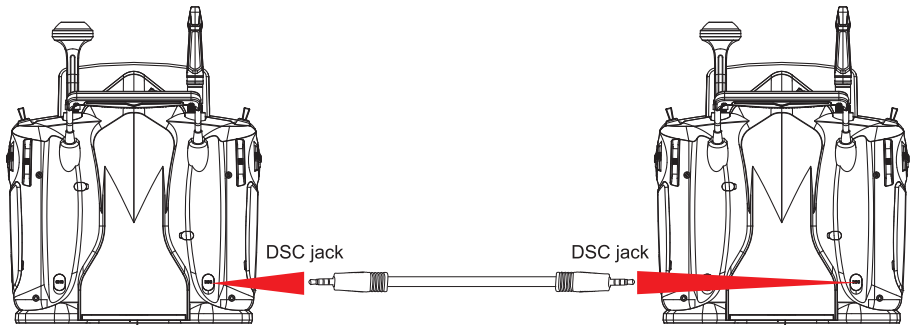
Press UP or DN to choose model "VOYAGER3" and press ENT to confirm. It will display an Ask interface "Are you sure?", then press ENT to confirm. "Transmitting....." interface will display, press EXT to exit after data receiving finished.

● Slave remote controller

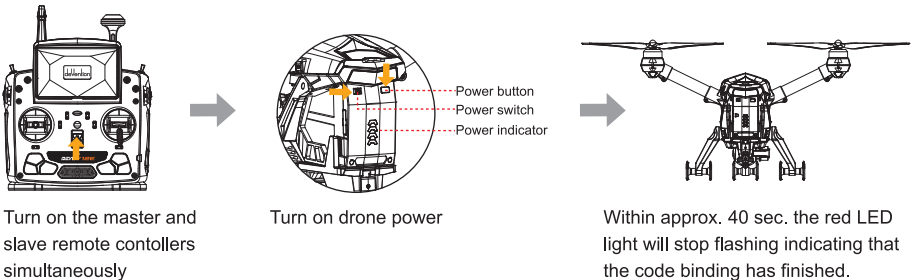


f. Connection between master and slave remote controllers

- ① Turn off the radio power and insert the training cable to both remote controller's DSC jack.

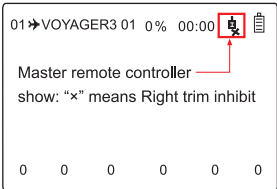
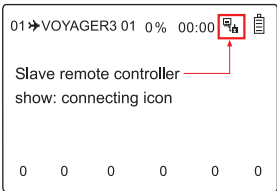
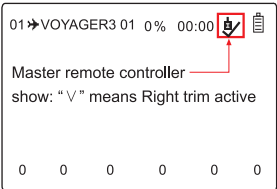
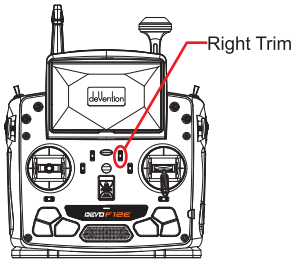


- ② Turn on the power of the master and slave remote controllers at the same time, then turn on the drone power to bind the code.



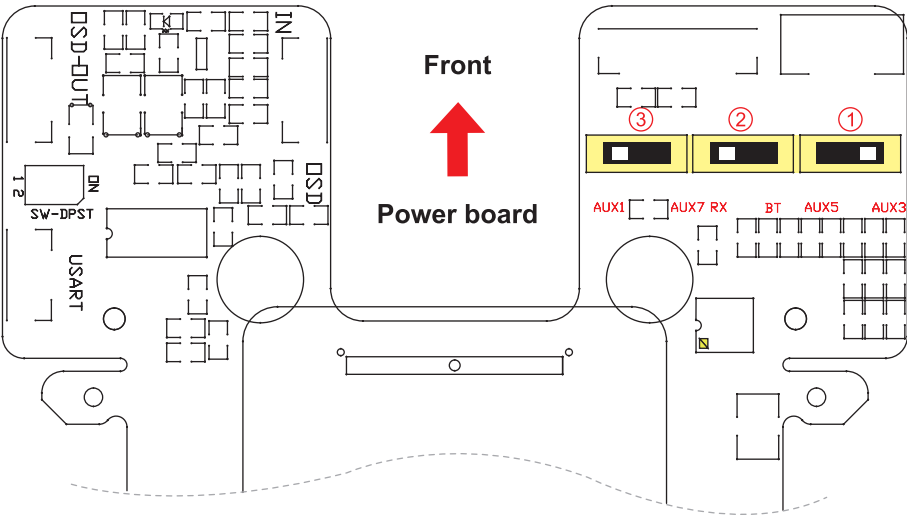
VOYAGER 3

- ③ When press the train switch (Right Trim) to activate the training function and the status is “V”, the pilot can operate the slave remote controller to control gimbal pitch and horizontal rotation and camera capture. When press the train switch (Right Trim) to inhibit the training function and the status is “x”, the pilot can operate the master remote controller to control gimbal pitch and horizontal rotation and camera capture.



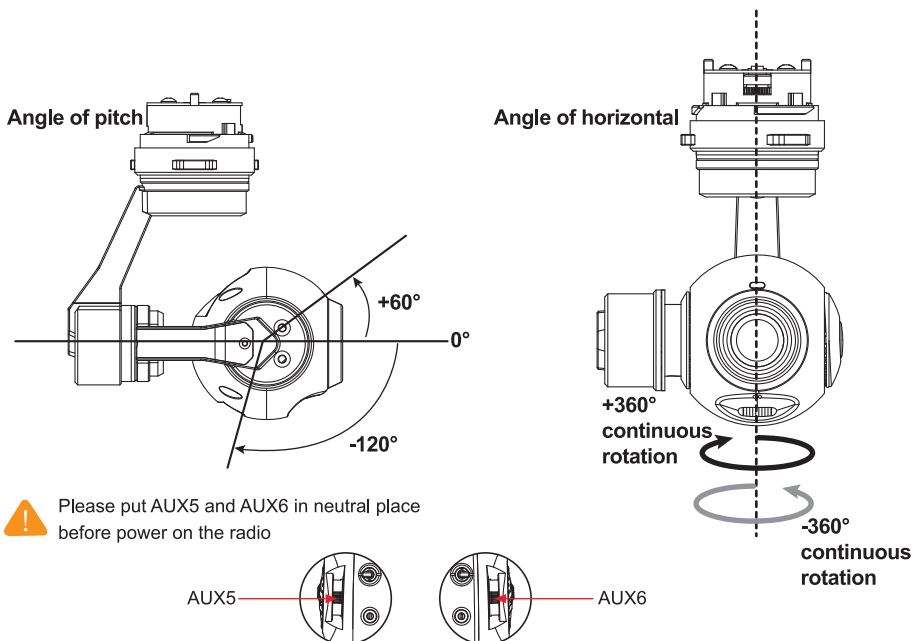
g. Aircraft switch position setting

S/N	Switch name	Switch position	Position instruction
①	Remote cotroller toggle switch	Toggle switch to AUX3 position	Dual-remote cotrollers
②	Gimbal toggle switch	Toggle switch to RX position	Dual-remote cotrollers control
③	Camera toggle switch	Toggle switch to AUX1 position	Dual-remote cotrollers control

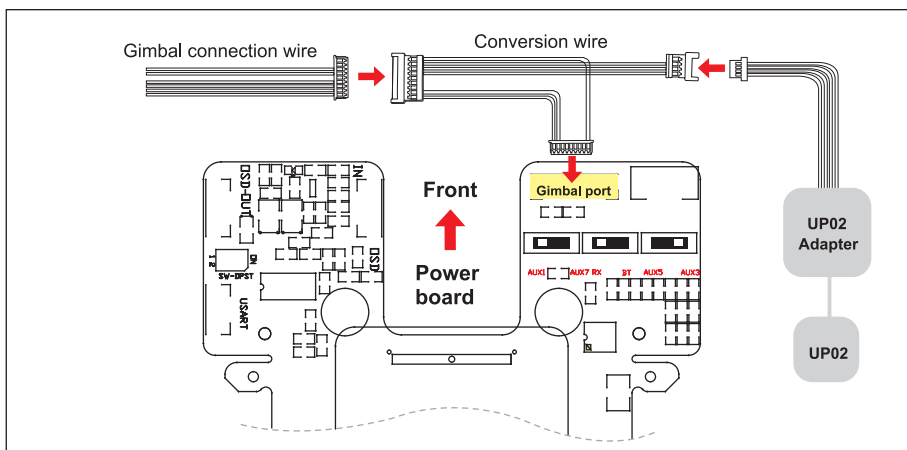


4.3 Instruction of Gimbal

Three-axis stabilization gimbal makes the camera steady so that it can shoot stable photos even fly with high altitude. And you can control pitch and horizontal angle of the gimbal by AUX6 and AUX5 on the radio.



● Gimbal upgrade connection diagram

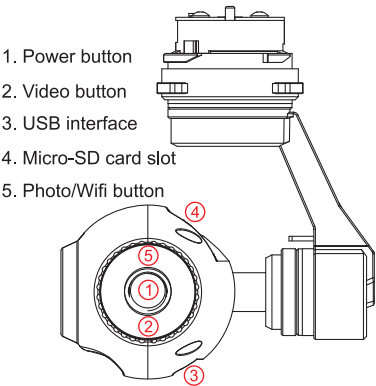


4.4 Camera Setting

Camera support 64GB Micro-SD, please use SD high capacity card to make sure you can shoot a vedio or take photos normally.









Power button: When the camera power off, long press 3 seconds to power on it; when the camera power on, long press 3 seconds to power off it.

USB interface: When power on, you can use Micro-USD wire to connect with PC, easy to copy the vedio and photos in the Micro-SD card, you can also use SD card reader to get data.



● Camera transmitting channel selection

There are 8 different channels can be selected. You can choose the best frequency channel according to the image quality as below:

Channel	1	2	3	4	5	6	7	8
Frequency	5866MHz	5847MHz	5828MHz	5809MHz	5790MHz	5771MHz	5752MHz	5733MHz
Code position (on/off)	 1 2 3	 1 2 3	 1 2 3	 1 2 3	 1 2 3	 1 2 3	 1 2 3	 1 2 3

Note: (1) Only transmitting channels 2, 4, 6, 8 are available for the Camera(FCC).

(2)Transmit channel is one-to-one correspondence with vedio reception channel.

● Video and Photo user guide

 Warm tips:

- A Micro SD card must be inserted into the camera before connecting the power, and should be removed after disconnecting the power. (A high speed SD card is recommended.)
- Insert Micro SD card, after the camera power on, the red indicator light is normally on means initialization of the camera. And if the red indicator light normally on 2 seconds interval means initialization completed and enter into standby position.

a. Radio control photo operation

Switch	Transmitter setting	Instructions
AILE D/R	Model Menu ↓ Device Output ↓ AUX7 ↓ AILE D/R ↓ Active	Turn AILE D/R switch from the 0 position to the 1 position, pause for 1-2 seconds, turn back to the 0 position, then the camera starts to take a photo (the red indicator light flickered) , operate again to take another photos, and so on.

b. Manual control photo and video operation

● Photo instruction

Press the photo/Wifi button once, the camera will take one photo(the red indicator light blinks once then light out), press the photo/Wifi button again, it will take another photo.etc.

● Video instruction


Press the video button to start recording video (the red indicator light is shining interval of 0.5 seconds); then press the video button again to stop the video (the red indicator light go out).

c. Camera Assist software control photo and video operation

● Download and software installation

- ① Download the “**Camera Assist**” software from official Walkera website(www.walkera.com) / Google for Android version 4.0 above.
- ② Apple IOS system, download the “**Camera Assist**” software from APP Store.

● Connection introduction

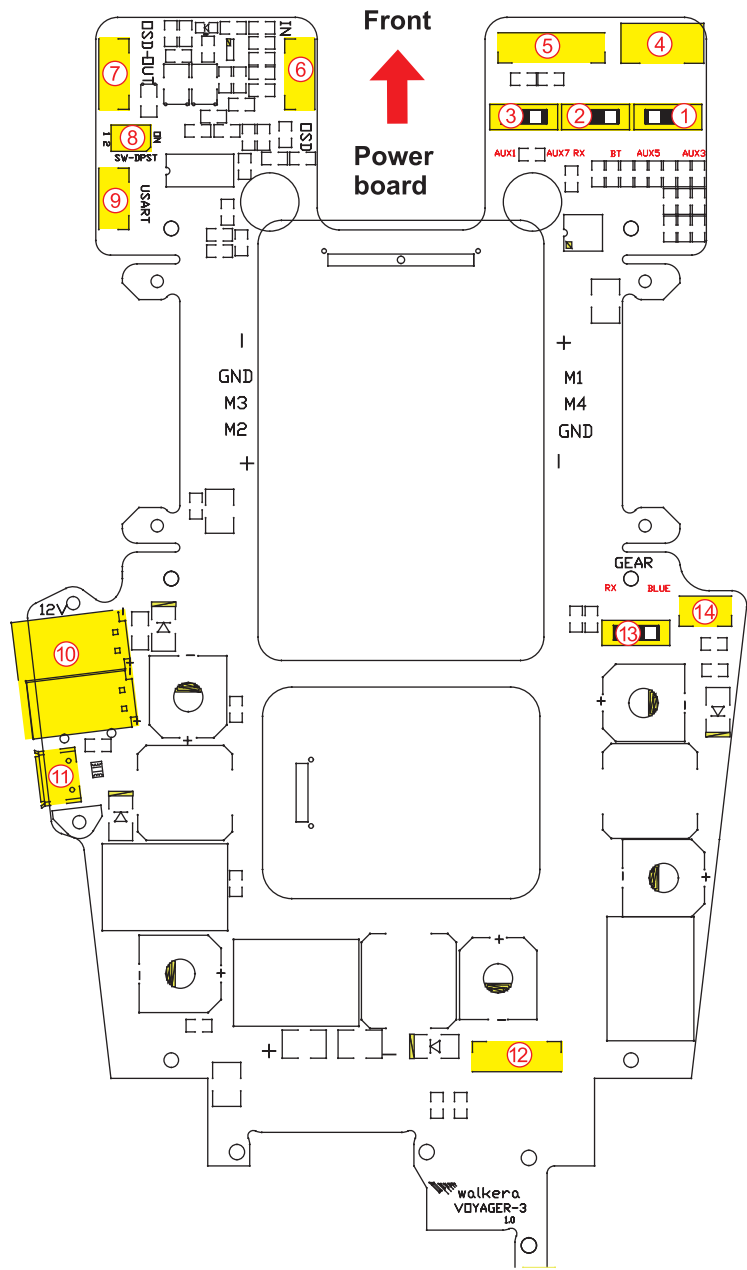
- ① Long press the Photo/WiFi button for 3 seconds to turn on WiFi, then the screen will display “WiFi” on the radio.
- ② Enter phone settings and open the WiFi function. In the WiFi search list find and touch “WK-Camera”, input password 12345678 to connect. The connection is successful if it displays “connected”. Exit the settings when finished.
- ③ Open  to enter control interface.












File folder Snapshot Mobile record Settings

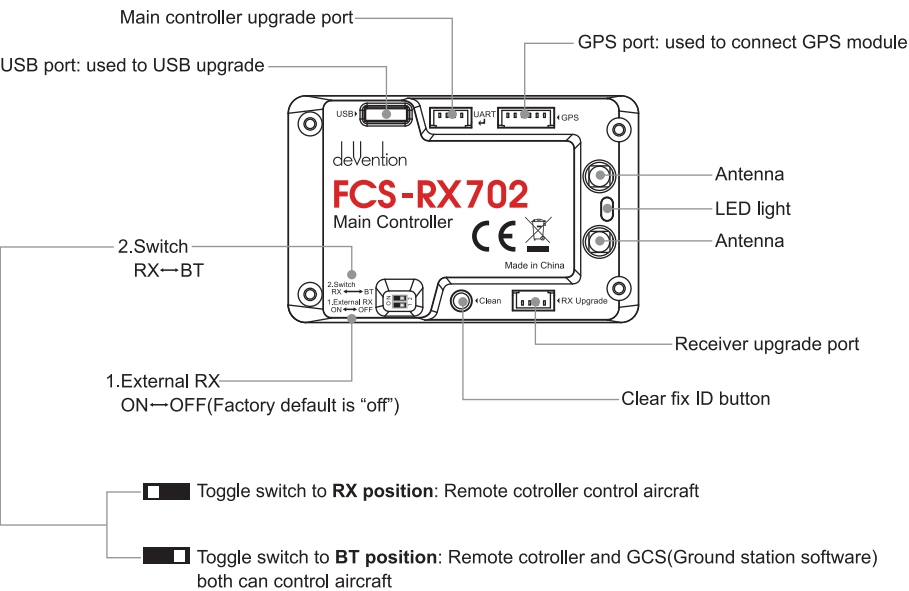
VOYAGER 3


4.5 Power board instruction



S/N	Name	Function
①	Remote cotroller toggle switch	 Toggle switch to AUX3 position : Dual-remote cotrollers
		 Toggle switch to AUX5 position : Single remote cotroller
②	Gimbal toggle switch	 Toggle switch to RX position : Goggle, dual-remote cotrollers, and GCS(Ground station software) both can control gimbal
		 Toggle switch to BT position : Single remote cotroller and GCS(Ground station software) both can control gimbal
③	Camera toggle switch	 Toggle switch to AUX1 position : Dual-remote cotrollers control camera
		 Toggle switch to AUX7 position : Single remote cotroller control camera
④	Front skid landing servo port	Connect to front skid landing servo
⑤	Gimbal port	Connect to gimbal
⑥	OSD input port	Connect to camera
⑦	OSD output port	Connect to 5.8G emitter
⑧	OSD switch	Factory default switch 
⑨	OSD upgrade port	Connect to UP02 Adapter
⑩	12V power output port	12V power output
⑪	USB port	Connect to USB date line
⑫	LED lamp panel port	Connect to LED lamp panel
⑬	Skid landing toggle switch	 Toggle switch to RX position : Remote cotroller control skid landing
		 Toggle switch to BLUE position : Remote cotroller and GCS (Ground station software) both can control skid landing
⑭	Back skid landing servo port	Connect to back skid landing servo

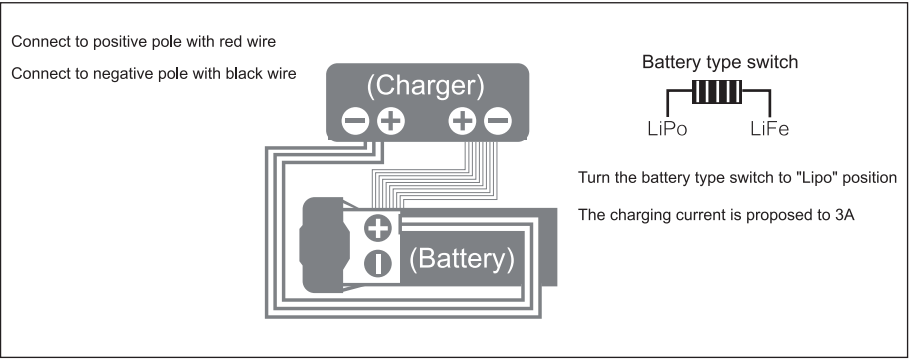
4.6 FCS-RX702(CE) Main Controller Guideline



 FCS-RX701(FCC) and FCS-RX702(CE) main controller port are same.

4.7 Connect e8 charger instruction

Slide the power switch to the "ON" position when charging, press the power button for 3~5 seconds until the power indicator remains on.



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deUvention

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