VITUS

QUICK START GUIDE V1.0

Apr. 28th, 2017

# Contents

1.0 Get to know your aircraft

• Modular gadget design is used for simple connection & assembly.

• Foldable design is employed to greatly improve compactness without compromising quality and function.

• More accurate and safe flight is achieved using GPS/GLONASS dual-satellite positioning & navigation system.

• 5.8G WiFi digital video transmission system is used.

• Integrated gimbal camera is capable of stably shooting 4K high-definition videos.
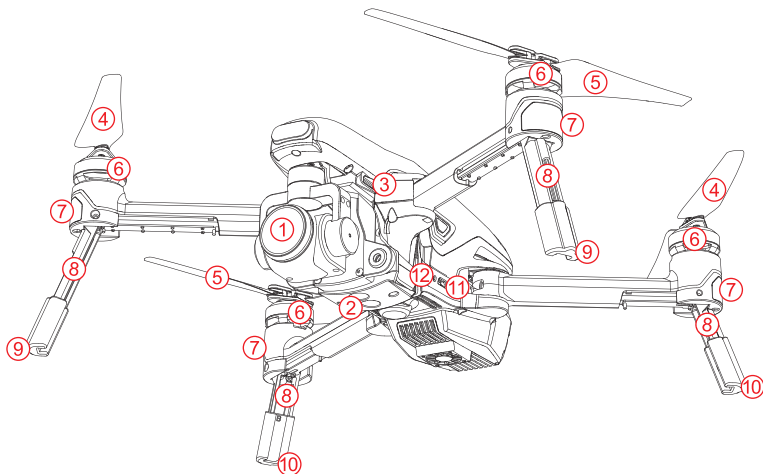
1. Gimbal and Camera	9. Stand cushion(A)
2. Optical low system	10. Stand cushion(B)
3. Micro SD card slot	11. Upgrade port (Micro USB)
4. CCW propeller(↻)	12. Reset key
5. CW propeller(↺)	13. Power button
6. Brushless motor	14. Battery level indicators
7. Indicator light	15. Smart flight battery
8. Landing gear	16. Status indicator
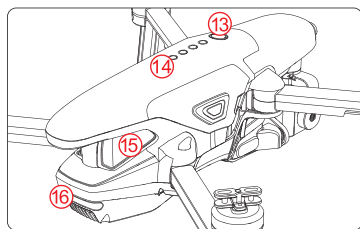
* 1) Maximum time for flight under an experimental environment is 25 minutes subject to real conditions.

  2) To avoid property loss and personal injury caused by wrong operation, please read the manual carefully and watch the tutorial video at www.walkera.com before using VITUS.

2.0 Get to know your remote controller

DEVO F8S is in-built with a ground receiving terminal of 5.8G WiFi digital video transmission system, which can achieve a real-time display of high-definition picture on a mobile device by using Walkera Drone APP, with a foldable handle capable of stably placing mobile devices.

Folded

1. Antenna
2. Handset Holder
3. Power Indicator
4. Charging Indicator
5. Status Indicator
6. Photo Button
7. Video Button
8. Left Stick
9. Right Stick
10. Power Button
11. Munal Mode
12. Auto Mode
13. Sports Mode
14.Return To Home button
15. Charging Port
16. Training/Upgrade Port
17. Camera-EV Dial
18. Gimbal-Pitch Dial
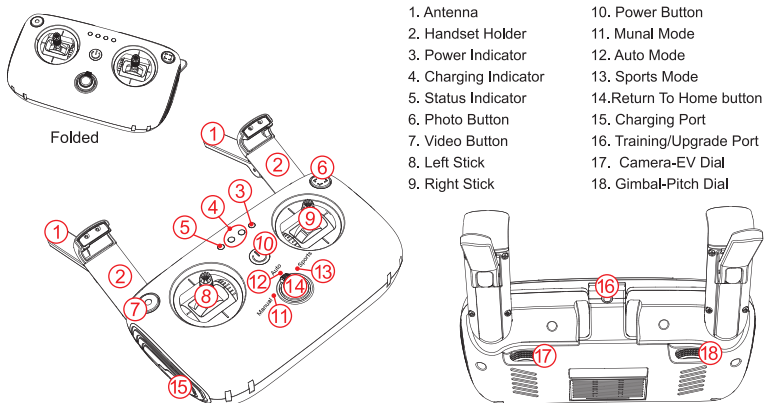
Take "left-hand throttle (MODE 2)" as an example. The left rocker controls the aircraft's altitude and heading, while the right rocker controls its forward, backward, left and right movements.

Left Stick

Up
Down
Turn Left
Turn Right

Right Stick

Forward
Backward
Left
Right
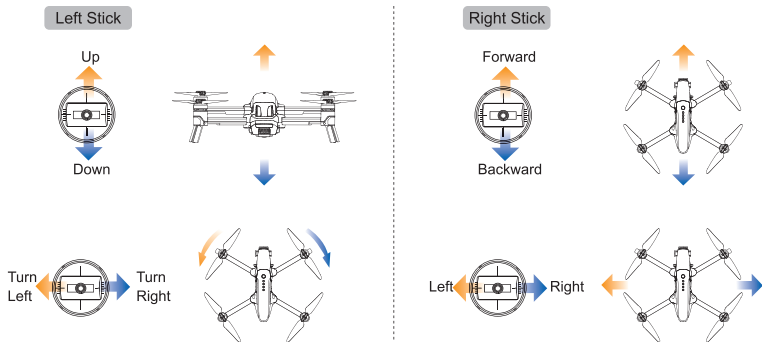
* 1) MODE 2 (Throttle stick on the left): Left stick—THRO/RUDD; Right stick —ELEV/AILE.
 2) MODE 1 (Throttle stick on the right): Left stick—ELEV/RUDD; Right stick—THRO/AILE.
 3) Maximum communication distance under an experimental environment is 1500 meters subject
    to real conditions.

3.0 Specifications

• Aircraft

Main Rotor Dia.:	186mm
Overall (L x W x H):	229 x 279 x 101mm
Weight:	890g(batteries included)
Remote Controller:	DEVO F8S
Main board:	VITUS 320
Brushless Motor:	WK-WS-28-017A
Brushless ESC:	VITUS 320
Battery:	11.4V 5200mAh LiPo 3S
Flight Time:	21minutes for positioning flight
	(with10% battery level residual)
	25 minutes for ultimate flight
Working temperature:	-10℃~+40℃

279mm

229mm

186mm

101mm
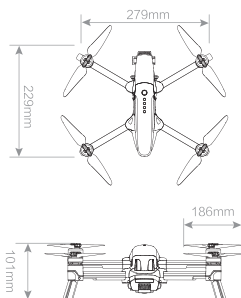
• Gimbal

Controllable turn range:	-90°~ +45° pitch

• Camera

Image Sensor:	SONY: 1/2.3" CMOS; pixel 1600W
Lens:	FOV 95° (b/w); 3.8mm; f/2.8 aperture
ISO Scope:	100-12800
E-shutter:	1/30-1/8000
Photo resolution:	5376x3024(1600W) / 4608x2592(1200W) / 3840x2160(800W)
Record resolution:	UHD: 3840x2160(4k) 30p / FHD: 1920x1080 30p
Max. code rate of video storage:	64Mbit/s
Supported file system & format:	Fat32; exFat
Picture format:	JPEG
Video format:	MP4
Memory card supported:	Micro SD card，max. 64G

## • DEVO F8S remote controller

Overall (L x W x H):	173 x 101 x 71mm
Working frequency:	2.4G
Signal range:	About 1.5KM (open without shelter, no electromagnetic interference)
Built-in battery:	7.4V 2200mAh Li-po 2S

4.0 Attention before flight

1) The VITUS is intended for pilots, 14 years or older, with RC hobby experience.

2) Please do not flying in severe weather, such as rainy, snowy, windy or foggy conditions.

3) Always choose large open fields for flying, the densely steel reinforced buildings may affect compass, shelter GPS signal and deteriorate positioning effect of aircraft, and even lead to inability to position it.

4) Please keep the flying aircraft away from high-speed rotating parts (such as propeller or brushless motor).

5) Always keep the aircraft within sight, and keep it away from obstacles, crowds and water.

6) Do not fly close to high-voltage power lines, cellphone towers, or radio towers, as these may disrupt your control signal.

7) Always check local laws before flying, and never violate local laws or ordinances concerning legal flying areas.

8) When aircraft flying above 4500 meters, flight performance may be undermined because of decreased performance of battery and gravity system.

5.0 Charging

1) Connect charger to AC power (100~240V 50/60HZ).

2) Please charge under the condition of the closed power for remote controller and smart flight.

3) Smart-flight battery level indicator light extinguishing indicates battery fully charged; while remote-controller charging indicator green light steady on indicates battery fully charged.

Power Outlet 100~240V
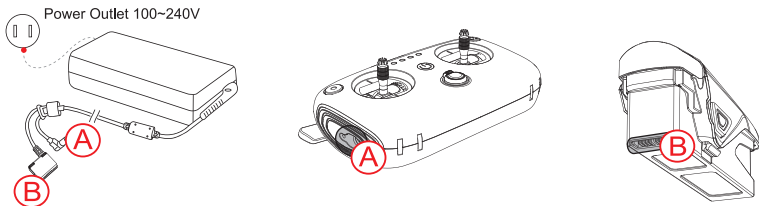
6.0 Downloading/Installing Game App Walkera GO & Operation App Walkera Drone

Please go to Walkera Official website (www.walkera.com) or Google to download/install it for Android system.

Please download/install it from App Store for iOS system.

To obtain best experience, tablet devices are recommended to run this software,

which supports **iOS 9.0 / Android 5.0** or above.

7.0 Walkera Drone Operating Main Interface Instructions

In the interface, HD video and photographs can be real-time previewed, as well as the dynamic setting parameters, such as aircraft, remote controller, gimbal and battery.

1. Return Home [ ]: Click it, the aircraft stops waypoints flying, and return back automatically.

2. Auto Takeoff [ ]: Click it, the aircraft takes off automatically.

3. Function box [ ]: Gesture shot, Mental Follow, and Aerial Modes.

4 . Battery level return [ ] When the residual battery level reach [ ], aircraft will auto return back.

5. Return [ ]: Return to last step.

6. Device connection status: Display connected or disconnected.

7. Flight time [ ]: Aircraft flight time

8. Number of aircraft satellite [ ]: Displays the received satellites of aircraft.

9. Positioning accuracy [ ]: Displays accuracy of aircraft positioning accuracy.

10. Remote controller signal strength [ ]: Displays the signal level between remote controller and aircraft.

11. Camera signal [ ]

12. Battery level [80%]: Real-time display of current smart flight battery remaining level (voltage customizable)

13. Setting [ ]: Click the icon to open the setting menu to perform general settings, settings for aircraft, remote controller, gimbal & battery

14. Camera setting [ ]: Click the icon to show professional, image, video and other settings. Under the same resolution, the higher the code rate is, the better the image quality is, and the video transmission distance can be accordingly reduced.

15. Photo & video switch [ ]:

Photo: Photo button is used to trigger the camera to take pictures. While this function also supported in the remote controller.
Video: video button to start/stop video. You can also press the video button on the remote controller for video.

16. Video display [ ]

17. GPS positioning status: When connected, "GPS positioning" appears; when disconnected, "GPS not positioning" appears.

18. Flight status parameters:
Distance: horizontal distance of aircraft with returning point.
Height: vertical distance of aircraft with returning point.
Horizontal velocity: speed of aircraft in a horizontal direction.
Vertical speed: speed of aircraft in the vertical direction.

19. A thumbnail map icon:
Click the thumbnail icon to quickly switch to the map interface.

Map lock   Map switch

Circle Fly

Waypoint

Waypoints
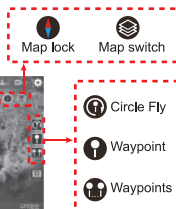
8.0 Walkera GO Game Main Interface Instruction

The Walkera GO will activate once you start the Aircraft Auto with a strong GPS signal.

1. FPV simulation mode: Just connecting remote controller with your cellphone, you can enjoy a flight experience simulating a real scene.
2. MR games: With virtual reality combined with game, it has 3 game modes including racing, collection & battle.
   Racing Mode: Click to enter Racing mode. You can set up a virtual circuit in a real scene, practice the racing flight, and improve your flight technology.
   Collection Mode: Click to enter Collection mode. You can follow a prescribed route to collect COINS, and win rewards after completing the game.
   Battle Mode: Click to enter Battle Mode. Powerful aircraft appears in around you, start the fire and shoot down enemy planes in the game.
3. Aerial mode: Simple aerial photo mode, photography & video.

9.0 Prepare Aircraft
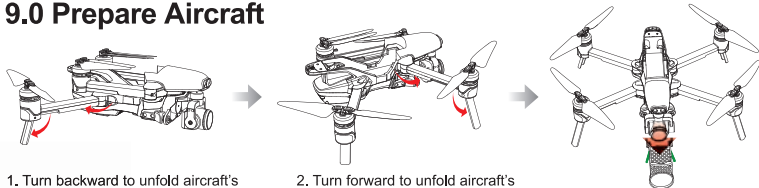
1. Turn backward to unfold aircraft's rear arm, propeller and landing gear. Mount the stand cushion(B).

2. Turn forward to unfold aircraft's front arm, propeller & landing gear. Mount the stand cushion(A).
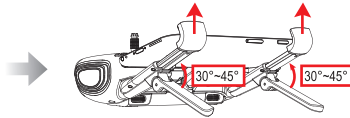
3 press the green position and remove the Camera fixture.

⚠️ Attention:
  • Be sure to unfold rear arm before unfold front arm. Start aircraft after arm, propeller and camera mount are fully unfolded.
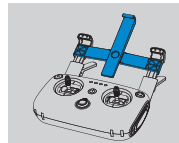
10.0 Prepare Remote Controller
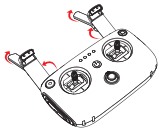
1. Unfold antenna & mobile device holder.

2. Pull upward mobile device holder, place a cellphone and clamp it. Adjust antenna & mobile device holder, make their included angle between 30°~45°.

30°~45°   30°~45°

Mount the tablet support, which maximum size can be up to 8.0".

11.0 Read for Flight

Place the aircraft in an open outdoor area, with its tail facing toward operator.

11.1 Aircraft Starting/Code-matching

① Insert the battery.

② Start remote controller and smart flight battery.

③ Place aircraft at horizontal position, ***right red LED light flashing until steady on indicates completion of*** IMU prewarming & code-matching.

(Right/left red LED lights alternatively flashing indicates aircraft being abnormal, see also APP tips.)
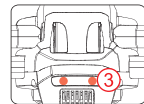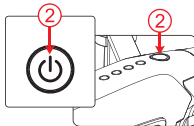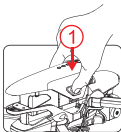
④ Open the Mobile Wi-Fi device, wait for 30 seconds, when at the same time appear "Vitus-Ground-***" and "Vitus-Air-***" , click "Vitus-Ground-***" , input password "1234567890" to connect and exit settings after a successful connection.
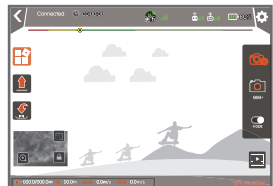
11.2 APP Connection

Connecting operation app. Walkera Drone

Walkera Drone

1. Click the icon on cellphone.

2. Choose aircraft VITUS, touch "Go to connect".

3. Enter main interface.

Connect game software Walkera GO

Walkera GO

➤

➤

1. Click the icon
   on mobile device

2. Connecting ......
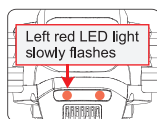
3. Enter main interface

⚠ Attention:
   • Walkera GO & Walkera Drone cannot be simultaneously used on the same mobile device,
     you can use another APP only when an App is exited.

11.3 GPS Indicator Lights

When the left red LED light slowly flashes,
you can work the GPS function

Left red LED light
slowly flashes

11.4 Motor Unlock/Lock

Motor Unlock

After successful code-matching, move the left & right sticks
down and toggle them outward, and hold for 1.5 seconds.
You will see **the right red LED light flashes**, indicating
that motors are unlocked. The unlocked motors will rotate,
and immediately release sticks.
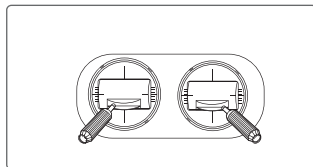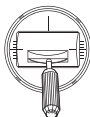
Motor Lock

There are two methods to lock the motors:

Method 1: When the aircraft has land, push and hold the throttle stick down. The motors will stop after 2 seconds.

Method2: Move the left and right stick down while toggle them outward and hold for 2 seconds.

You will see **the right red LED light always on**, indicating that motors are locked.

Method 1

Method 2