

VD16-E Radio Control System User Manual





Standby Mode Interface Introduction

Settings: Tap on the icon to enter "Transmitter Settings" menu.
Sub-trim: Displays digital sub-trim value of all 4 channels.
Model Name: Displays your current model after selecting a set of model data.
Receiver Voltage: Displays receiver's current power voltage telemetry.
Aircraft Voltage: Displays aircraft's current power voltage telemetry.

SONTECH SOLUCION Camera SOUTECH SOUTEC

Interface Definition of Air Unit Camera: Video/HDMI interface URAT: Data transmission interface

S. BUS: S. BUS signal output interface

1-5: 1-5pwm output interface

4s-12s: 15-50v voltage/power input interface

How to Charge VD16-E Transmitter

Please charge the remote controller with USB cable as shown below. When it is charging, the red light is on; when completed, the green light is on.

> Status Indicator Red: VD16-E transmitter is off Green: VD16-E transmitter is on

Charging Indicator Red: Charging Green: Charging completed

Points For Attention:

1.Choose the right charger, use a standard 5V/2A adapter charger or ones having lower parameters. 2.Make sure that VD16-E transmitter is powered off in charging.

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3.VD16-E transmitter is equipped with a built-in 3000mAh Li-Po 1S battery, so please use a standard 5V/2A adapter charger. Charging time may be different using charger with different standards, please pay an attention to transmitter charging indicator in charging.

Setting Adjustments and Device Calibration

1.Select the flight control, ESC type, and then click Setting (keep the transmitter and the receiver connected before setting the device).

2.Calibrate the flight controller joystick through the flight control parameter configuration software. 3.Unlock and start flying.

Model Type

Type of drone Agricultural drone



Flight controller type Topxgun

Multirotor

Voltage type FOC

Receiver Voltage Connection

Please select power battery as the power supply for air unit (input voltage 15-20V). In VD16-E transmitter menu, click on "System Settings-General Settings---Voltage Receiving Settings", and you can find a real time voltage display in PWR section on the screen. And you can also set the lower limit of voltage so as to being alerted whenever the battery voltage is lower than the standard.

How to Link VD16-E Transmitter to a Receiver

VD16-E remote controller is linked with its corresponding receiver by default when manufactured. If the connection breaks off, or the transmitter need to be linked with another receiver, then the transmitter needs re-linking.

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Comm Set Bind Start Tx-ALARM C. 4/ LANG Chinese LowVol Alert 15.2V THR SelfCen Joy Mode2 RF Status C.N VIB ON RD step 5 Sound OFF

Steps to Link:

1.Power on receiver, press and hold linking button for 3 seconds till receiver status indicator blinks red quickly;

2.In VD16-E transmitter main menu, tap on "System Settings-General Settings".

3.In transmitter "Comm Set" menu, tap on "Bind" button, transmitter now is ready for linking.

4. When receiver indicator blinks green, linking steps are done, which is also shown in Comm set.

Points For Attention:

1. While binding, keep the distance between transmitter and receiver more than 1m.

2.Before linking transmitter to receiver, make sure aircraft engine is powered off and motor wires are off connection.

3. When linking steps are done, check if servo is working to make sure that linking is completed.



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How to place Receiver Antenna



Steps to Set Datalink

1.Connect the UART port of air unit to flight controller datalink port with the flight controller connection cable in the package.

2.Select the right flight controller type.

3.On a mobile device, search for an external Bluetooth device, choose the one called "02A******", which is of ten numbers. Enter the corresponding password "1234", and pair it with the device.

* If you select this device for Topxgun flight controller, please pair it with the Bluetooth device exclusive for Topxgun.

Paring steps:

In "Remote Control" menu, tap on "video/Data Transmission" Settings-- "Bluetooth" Settings and select Topxgun, which is "TOPGUN 02A******". When it is successfully linked, select it as the connecting method. 4.Turn on the ground station APP, check for the paired Bluetooth device and pair it with the ground station.

Instructions on HD Video transmission System

1. Link ports of antenna, camera and power to the port of air unit.

2.Connect mobile phone and remote control with the data cable, which is included in the package. And make sure remote controller is powered on.

3. Download an Video display APP.

* Due to the android system setting, please manually open the permission of the floating window function of the software for the first time to ensure normal use of the floating window function.

4. Turn on USB network sharing of mobile devices, and get real-time video on "Video Display" APP.

* Since USB needs to transfer images, please use Bluetooth for ground station connection.