G-OSD 3 User Instruction Manual

PRODUCT INTRODUCTION

Welcome to use GPS-OSD, which is specially designed for micro electric-powered plane with following features:

- GPS coordinate display, time display, airspeed display
- Display the GPS signal status in graphical
- Super light, high-sensitivity GPS module, high-speed 10HZ refresh rate
- Power voltage and AUX double testing, convenient to test the battery status of FPV graphical transmitting equipment, avoid lose airplane due to short of power supply
- Calculate the distance from home, get to know the flying distance
- Display the home direction and home distance in dynamical graphic.
- Temperature measuring (temperature module is for choice)
- High accuracy amps measuring, and calculate the battery consumption(amps measuring module is for choice), Support NTSC and PAL TV signal
- Support anti-glare shade control signal
- Support manual calibration

1.HARDWARE SPECIFICATION

Weight： Main board 5.7g GPS module 11.6g

Size： Main board 40mm*26mm*6mm GPS Module 16mm*28mm*8mm

Working Voltage： 7V-25V (suggest 2-5S Li-Po)

2.INTERFACE INTRODUCTION

Usage introduction & Setting Interface

2.1 Coordinate： Display the amps of G-OSD3 location

2.2 T15 Current area temperature

8 Current satellite quantity

COU "324" Course angle due North 0°,East 90° South 180° West 270°

2.3 1 0.0 V1 port AUX external power supply voltage reading

2 12.1 V2 port Power supply voltage reading (see below port 3.6)

2.4 0.0A Current reading of power supply from amps module电流模块所接电源的电流读

0mAH V2 amps consumption (see below port 3.6)

2.5 ALT"18"M Height reading of current GPS location

SPD 0 Current speed km/h or mile/h

2.6 RAN Horizontal distance from home

10.12.22.3 Current time

2.7 B Home direction

Location compass

TV Format：NTSC/PAL Video format choice

Speed Unit ： Metric/imperial choice

Time Zone ： Time zone choice

Adj V1+ : Adjust voltage of AUX port, increase 0.1V each press.

Adj V1 - : Adjust voltage of AUX port, reduce 0.1V each press.

Adj V2+ : Adjust voltage of main power supply, increase 0.1V each press.

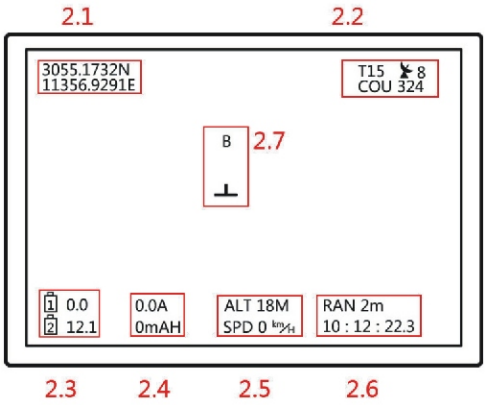
Adj V2 - : Adjust voltage of main power supply, reduce 0.1V each press.

ZERO 0.2A Present reading of amps module, return to zero after press, or you can adjust it by following parameters:

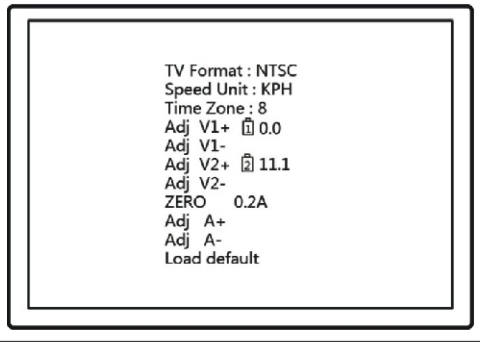
Adj A+ Adj A- Adjust reading of amps module, increase/reduce 0.1V each press

Load default Return to default setting

Usage Interface

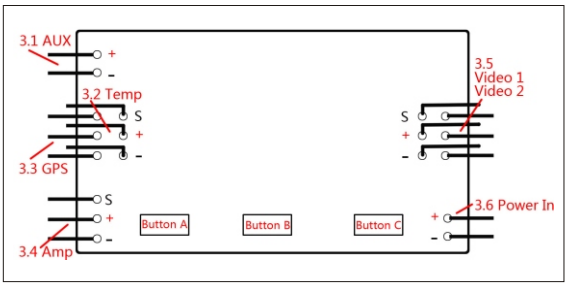


Setting interface
(cut off, press Button C and plug in)

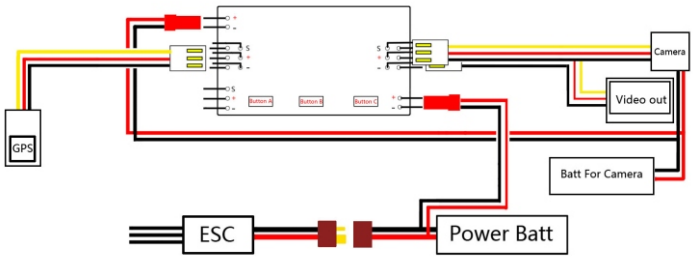


3.CONNECTING AND BUTTON INTRODUCTION

3.1 AUX external power supply port： Measure the external power supply voltage (V1 port)
3.2 Temp module port： Measure the area temperature of the temperature module
3.3 GPS module port： Main module, display the coordinate
3.4 Amps module port: Measure the amps of power supply
3.5 Video 1/2 video overlay :Overlay the input/output port of video, two ports are interchangeable
3.6 Power In： power supply port for G-OSD3 main board (V2 port)
Button A:
Usage interface: store the current location as "Home"
Setting interface: choose the current choice
Button B: choice up in the setting interface
Button C: choice down in the setting interface (cut off ---pressing---plug in----into setting interface)

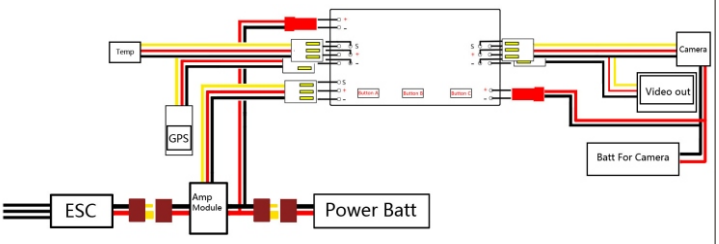


Suggested Connecting Diagram



Can measure the Power Batt voltage and Batt consumption (V2 port), meantime can measure Camera Batt voltage, avoid the voltage is too low.

Suggested Connecting Diagram (whole set)



Amps module can measure the current voltage and amps (V1 port) by series on power supply, meantime can measure the voltage of Camera Batt, amps consumption and temperature.

4.OTHERS

4.1 When the present location set as "home", if keep still or moving less than 5KM/H, the "home" direction (B) will keep jumping, which is normal.
4.2 When the GPS module searched more than 3 satellites, the location will be accurate.
4.3 When the GPS module moves more than 5KM/H, the system will start automatically "home direction" and "course angle"; when the speed less than 5KM/H, this function will stop and return to last data if speed returns.
4.4 When you use the amps module to test amps, pls be careful the safety amps is below 80A, and theoretical max Amps is 150A.
4.5 When you use the temperature module to test temp. of something, pls make sure the detector close to something, otherwise it can only measure the surrounding temp.
4.6 We try to adjust the amps reading as 0.0A under the condition of no load, but the amps reading keep jumping caused by electrostatic field or other reason, we are deeply sorry about it.

5.ATTENTION

5.1This OSD is specially designed for micro electric-powered plane, cannot change to any other usage.
5.2 Please use this product within reliable distance, do not let the plane beyond the view distance.
5.3 Please operate the plane at open and no man's land.
5.4 Please supply the power in strict accordance with safe power voltage, and use the low-noise, reliable power module or battery system.
5.5 Please do not arbitrarily maintain, rebuild, detect or upgrade this product.
5.6 Please do not let the children play this product, or put the product into the mouth.
5.7 Forbid to use this product at gas station and other places where definitely regulate no use for wireless signal.