

iOSD mini User Manual V1.06

Introduction

DJI iOSD mini is specially designed for DJI flight control system during the FPV flight or other aero-modeling activities. It displays real time video and OSD information, to bring users more involved flight experience.

Specified autopilot systems for the iOSD mini:

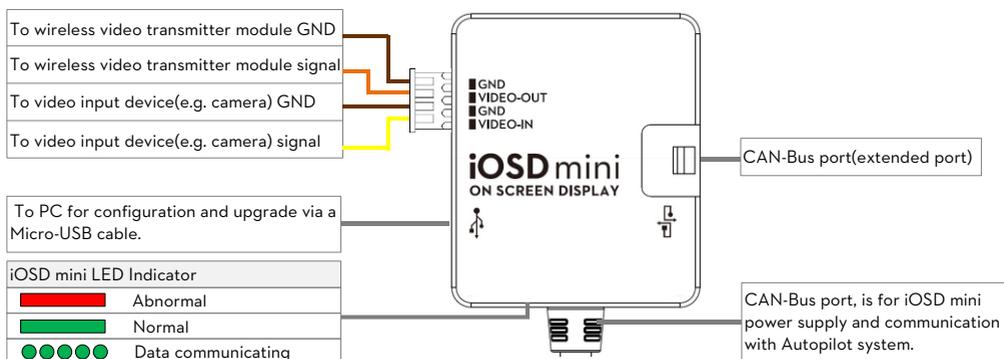
Autopilot System	Required Accessories	Firmware Version
NAZA-M series	NAZA PMU V2	4.02 or above
WooKong-M series	---	5.16 or above

Specifications

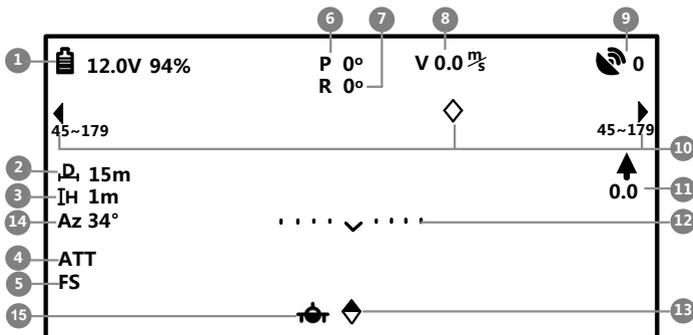
Voltage	6V	Working Current (Typical Value)	180mA@6V
Temperature	-20°C-60°C	Dimension	33.2mm x 28.2mm x 10.55mm
Weight	14g	Video Input/ Output Mode	PAL/NTSC (automatically recognize)

Assembly & Connection

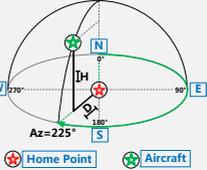
1. Prepare the iOSD mini, DJI autopilot system, video input source(e.g. camera), wireless video transmitter module(including transmitter and receiver), monitor, and then assemble all these to aircraft.
2. Connect the iOSD mini according to the following diagram. Connect your wireless video receiver module and monitor correctly.



OSD Display Description



NO.	Function	Display	Description
1	Power voltage	、blink	Real time battery voltage of the aircraft power, unit in V. (For PHANTOM 2 there will be current battery level percentage shown in addition.) Blink: first level low-voltage alert, the alert threshold is same to the protection voltage value set in the assistant software.
2	Distance between aircraft and home point	(unit in m)	Show when the home point is successfully recorded
3	Height	(unit in m)	Vertical height between the aircraft and the take-off point
4	Control mode	ATT, M, GPS	<ul style="list-style-type: none"> ● ATT is Atti mode ● M is Manual mode ● GPS is GPS mode
5	FailSafe mode	FS, APT, GHome	<ul style="list-style-type: none"> ● FS: FailSafe mode ● APT: Ground station mode ● GHome: Go home
6	Pitch attitude	P 0°	Positive value means the aircraft nose is pitching up; Negative value means the aircraft nose is pitching down.
7	Roll attitude	R 0°	Positive value means the aircraft is rolling to right. Negative value means the aircraft is rolling to left.
8	Flight velocity	0.0m/s	Horizontal speed of aircraft.
9	GPS satellite	0	Number of GPS satellites acquired.
10	Aircraft nose direction	、、	<p>Display the relative angle between the aircraft nose and home point. The aircraft nose is pointing to the home point when the icon is in the middle of monitor screen, which can help users to pull the aircraft back.</p>
11	Vertical velocity	0.0、 0.0	: Upward speed in vertical direction : Downward speed in vertical direction
12	Attitude line ∨	Use for aircraft attitude observation.

13	Compass error indicator	 blink	Blinking  will appear when compass has errors, please calibrate your compass.
14	Azimuth angle	$Az(0^\circ \sim 360^\circ)$	<p>Azimuth angle is a horizontal angle measured clockwise from the North base line to the line goes through the home point and aircraft position. Users can locate the aircraft by calculating the aircraft position using Az, D_1, I_H.</p> 
15	Airport alert	 blink	 Blinks when the aircraft enters a no-fly zone*.  Disappears when the aircraft exits no-fly zone*.

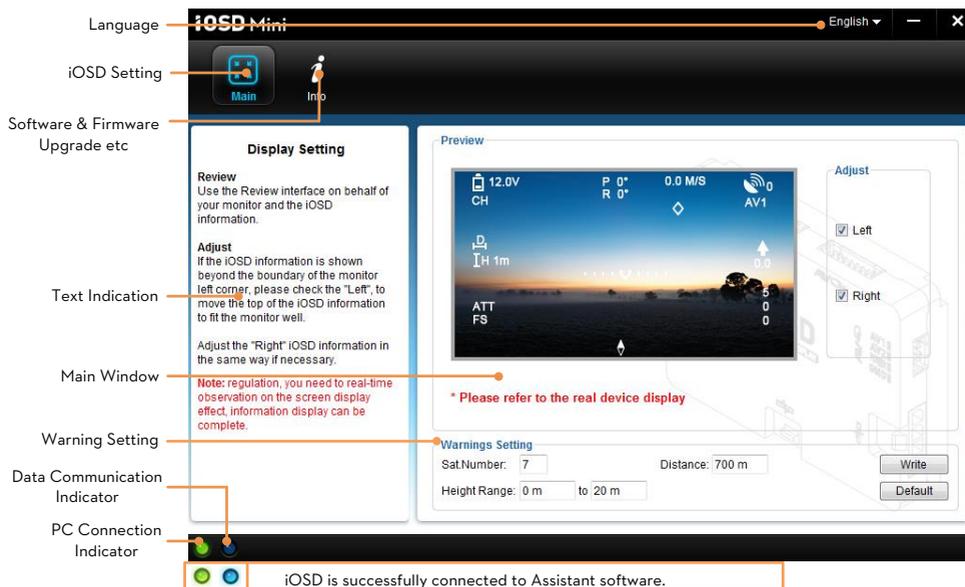
Notes:

* For more information about the no-fly zones, visit www.dji.com and download the *Phantom 2 User Manual*.

Install Driver and Assistant Software

1. Please download the driver installer and assistant software from the iOSD mini page of DJI website (www.dji.com).
2. Connect the iOSD mini and the PC via a Micro-USB cable, and power on the iOSD mini system.
3. Run the driver installer, and follow the tips to finish installation.
4. Run the assistant software installer, and follow the tips to finish installation.

Assistant Software Usage



Trouble Shooting

NO.	What	Why	How to
1	Only OSD information, video signal loss.	Video input error.	Ensure the connection between iOSD mini and video input port is OK.
2	Only video signal, OSD information loss.	Connection between iOSD mini and autopilot system error.	Ensure the connection between iOSD and DJI autopilot system is OK.
3	Both video signal and OSD information loss.	Signal transmission error.	Ensure the communication between the video transmitter and receiver is working correctly.
4	Both video signal and OSD information loss.	The video signal cable to monitor is unconnected or short circuit.	Ensure the connection of video signal cable is OK.

Disclaimer

Thank you for purchasing product(s) from DJI Innovations. Please read the instructions carefully before installing the hardware and software for this product, this will ensure trouble free operation of your product. DJI Innovations accepts no liability for damage(s) or injured incurred directly or indirectly from the use of this product.

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