# Phantom 2 FPV Hub Kit Instructions   V1.1

The Phantom 2 FPV Hub kit contains cables and the FPV Hub. It makes connecting an iOSD mini, iOSD Mark II or AVL58 wireless video transmission easy and solder free. If a non-DJI wireless video transmission system is required, it can be connected by soldering only 4 cables. The FPV Hub kit also can be used to connect the H3-2D gimbal, GCU and other devices on non-PHANTOM 2 flight platforms.
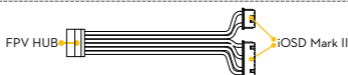
In the Kit

1. FPV Hub, the main board used to connect devices.
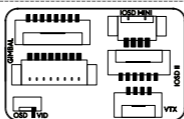
2. HUB-AVL58 cable, used to connect AVL58 and FPV Hub.
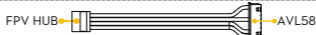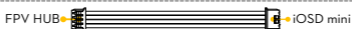

3. HUB-iOSD Mark II cable, used to connect iOSD Mark II and FPV Hub.

4. HUB-ZEN cable, used to connect H3-2D gimbal and FPV Hub.

5. HUB-iOSD mini cable, used to connect iOSD mini and FPV Hub.

FPV HUB • iOSD mini

6. HUB-VTX cable, used to connect the FPV Hub and other wireless

video transmission modules.

FPV HUB

DJI unspecified wireless
video transmission module

Connections

Phantom 2 users should refer to the below instructions when connecting

to the FPV Hub. AVL58 is recommended for wireless video transmission

using the HUB-AVL58 cable.

	Items	Functions
1	Wireless video transmission module	Video transmission
2	iOSD mini, Wireless video transmission module	OSD, Video transmission
3	iOSD MARK II, Wireless video transmission module	OSD, Video transmission, Data recording

Item 1: Wireless video transmission module connection only

HUB-ZEN cable

HUB-AVL58 cable

GIMBAL

iOSD MINI

iOSD II

Connecting with the 8-Pin cable reserved in PHANTOM 2

Micro switch stops at VID

OSD | VID

VTX

GND
VCC
VIDEO_GND
VIDEO

HUB-VTX cable
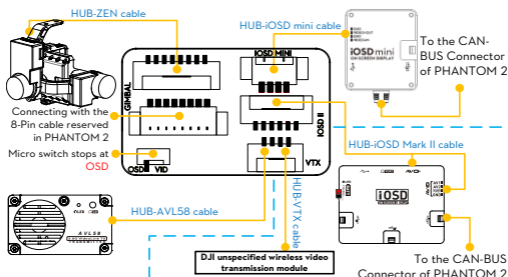
DJI **unspecified wireless video transmission module**
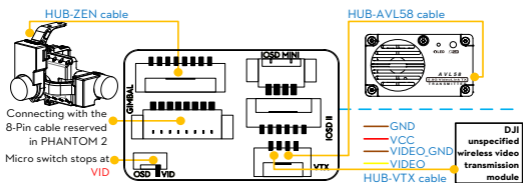
1) Stop micro switch at VID position if only wireless video transmission module is connected to the FPV Hub.

2) Wireless video transmission module is an alternative to the AVL58. If using AVL58, connect it to the FPV Hub using the HUB-AVL58 cable. If using a different wireless video transmission module, connect it to the FPV Hub using the HUB-VTX cable according to the pin description on the HUB-VTX cable.

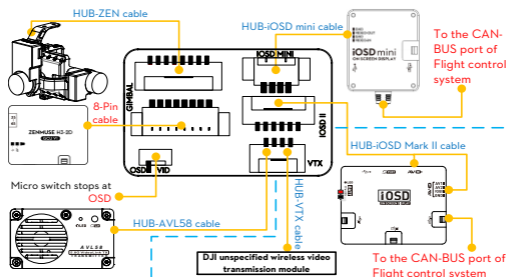|	
GND	Connect GND wire on Phantom 2 to GND port of wireless video transmission module.
VCC	The Phantom 2 power wire provides 1.5A@12V power. Connect it to the VCC port of the wireless video transmission module.
VIDEO_GND	Connect analog GND wire to VIDEO_GND port on the wireless video transmission module. If the video transmission module uses one GND port on the transmitter, connect both GND and VIDEO_GND to that port.
VIDEO	Connect analog video output to video input port on wireless video

	transmission module.

Items 2&3: iOSD mini/iOSD MARK II and video transmission module connected

HUB-ZEN cable

HUB-iOSD mini cable

To the CAN-BUS Connector of PHANTOM 2

Connecting with the 8-Pin cable reserved in PHANTOM 2

Micro switch stops at OSD

HUB-iOSD Mark II cable

HUB-AVL58 cable

HUB-VTX cable

DJI unspecified wireless video transmission module

To the CAN-BUS Connector of PHANTOM 2

1) An alternative to using an iOSD mini or an iOSD Mark II.

2) Stop micro switch at OSD position when iOSD is connected to the FPV Hub.

3) Refer to item 1 to connect wireless video transmission module.

Non-Phantom 2 users should refer to the below for connecting the H3-2D gimbal, GCU and other devices to the FPV Hub.

HUB-ZEN cable
HUB-iOSD mini cable
To the CAN-BUS port of Flight control system
8-Pin cable
ZENMUSE H3-2D
Micro switch stops at OSD
HUB-iOSD Mark II cable
HUB-AVL58 cable
HUB-VTX cable
DJI unspecified wireless video transmission module
To the CAN-BUS port of Flight control system

1) Use the H3-2D GCU´s 8-Pin cable to connect the GCU to the FPV Hub, then connect it to a CAN-BUS port on the flight control system. This could be the spare CAN-BUS port on a PMU, iOSD mini or iOSD Mark II.

2) Connect iOSD mini or iOSD Mark II to CAN-BUS flight control system CAN-BUS.

3) Follow Phantom 2 instructions when connecting other devices.

Notes

(1) If using the FPV Hub, the original 4-Pin cable and video cable on PHANTOM 2 the will not be used. Please remove them carefully. Make sure the video cable is completely removed, without any copper wire remaining to prevent short circuiting.

(2) All connection operations should be conducted when powered off.

(3) Check whether pins of FPV Hub connectors are straight and in good condition before connecting. Plug and unplug connectors carefully to avoid damage or short circuiting.

(4) Install FPV Hub and extended devices inside the PHANTOM 2 is not recommended.

(5) Be sure to install the AVL58 away from the compass to avoid interference.

(6) The FPV Hub is not water-proof. If it gets wet, wash with alcoholic cleanser and dry before use. Otherwise components may be damaged cause of electrochemical corrosion.

(7) Do not place metal or conductive objects onto FPV Hub connector pins FPV Hub as this can cause short circuiting.

(8) Using cables not included in the kit for connections is not recommended.

(9) Make sure the connection is correct when using non-DJI wireless video transmission modules.

Tips

(1) FPV Hub has a resettable fuse for short circuit prevention. It will automatically open to prevent damage if the working current of power consuming devices (except the DJI Zenmuse series) goes over 2A or if the VCC or GND short circuit. After a short circuit, turn

off the intelligent battery and wait 10 seconds for the fuse to reset.

(2) A short circuit may damage Phantom 2 components. If this occurs, the FPV Hub will continue operations, by passing the damaged component.

Disclaimer

Please read this disclaimer carefully before using this product. By using this product, you hereby agree to this disclaimer and signify that you have read them fully. You agree that you are responsible for your own conduct and content while using this product, and for any consequences thereof. DJI accepts no liability for damages or injuries incurred directly or indirectly caused by abuse or operations failed to follow this manual of this product.

If you have any questions or concerns regarding your product, please contact your dealer or DJI Customer Service.