# PHANTOM 2 FPV HUB Kit Instruction   V1.0

PHANTOM 2 FPV HUB kit contains only cables and the FPV HUB to make connections convenient, easy and thus removing the need to do soldering when connecting them to an iOSD mini，iOSD Mark II or a DJI specified wireless video transmission module AVL58. Only 4 cables require soldering if users opt to use a wireless video transmission that's not specified by DJI.

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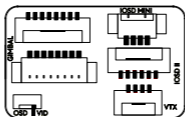
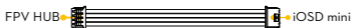2. HUB-AVL58 cable, used to connect AVL58 and FPV HUB.

FPV HUB ● — ● AVL58

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

FPV HUB ● — ● iOSD Mark II

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

FPV HUB ● — ● H3-2D

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 module.

FPV HUB — DJI unspecified wireless video transmission module

Connections

Choose devices collocation used with FPV-HUB according to required functions.

	Collocation	Functions
1	Wireless video transmission module	Video transmitting
2	iOSD mini, Wireless video transmission module	OSD, Video transmitting
3	iOSD MARK II, Wireless video transmission module	OSD, Video transmitting, Data record

For wireless video transmission, the ALV58 is recommended for easy connection, using a HUB-AVL58 cable.

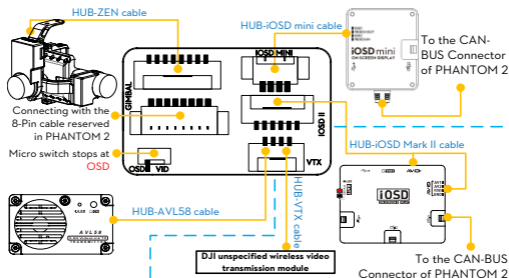### Collocation 1: Wireless video transmission module connected only
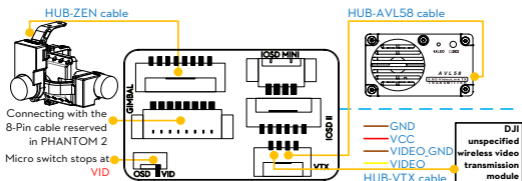
1) Stop the Micro switch at VID position if only wireless video transmission module is connected to the FPV HUB.

2) Wireless video transmission module is alternative to AVL58 or others unspecified. If using the AVL58, connect it to the FPV HUB via HUB-AVL58 cable. If using other wireless video transmission

module, connect it to the FPV HUB via HUB-VTX cable according to pins description of the HUB-VTX cable.

GND	GND wire from PHANTOM 2, connect it to the GND port of wireless video transmission module.
VCC	Power wire from PHANTOM 2 provides 1.5A@12V power. Connect it to the VCC port of wireless video transmission module.
VIDEO_GND	GND wire of analog video signal, connect it to the VIDEO_GND port of wireless video transmission module. If the video transmission module used has only one GND port on the transmitter, it´s alright to connect both GND and VIDEO_GND to the only GND port.
VIDEO	For analog video output, connect it to the video input port of the wireless video transmission module.

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

1) It´s alternative to use iOSD mini or iOSD Mark II.

2) Stop the Micro switch at OSD position when iOSD is connected to

the FPV HUB.

3) Please refer to Collocation1 to connect the wireless video transmission module.

Notes

(1) If using the FPV HUB, the original 4-Pin cable and video cable on PHANTOM 2 will be spared, please remove and clear them out. Make sure the video cable is totally cleared without any copper wire left to prevent short circuit damage.

(2) All the connection operations should be conducted when the intelligent battery is powered off.

(3) Check whether pins of the connectors on the FPV HUB are straight and in good condition before connecting. Please and plug and unplug the connector carefully to avoid damage or short circuit.

(4) It´s not recommended to install the FPV HUB and extended devices inside the PHANTOM 2 aircraft.

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

(6) FPV HUB is non water-proof, if it is wet, please wash it with alcoholic cleanser and dry it before use. Otherwise components may be damaged cause of electrochemical corrosion.

(7) Do not leak any metal, conductive objects into the connector pins of FPV HUB to prevent short circuit damage.

(8) It´s not recommended to use cables not in the kit to connect devices

to avoid unexpected damage.

(9) Make sure the connection is correct when using wireless video transmission module unspecified by DJI.

Tips

(1) FPV HUB has a resettable fuse for over circuit precaution. The fuse will automatically open to prevent damage if the working current of power consuming devices (except DJI Zenmuse series) goes over 2A or if VCC and GND short circuited. After the short circuit trouble issued or the over current load is removed, turn off the power of the intelligent battery, the fuse will recover after 10secs.

(2) A component will be damaged if PHANTOM 2 has been short circuit once. In this condition, users still can use the FPV HUB and make the PHANTOM 2 work well again, ignoring the damaged component.

Declaimer

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