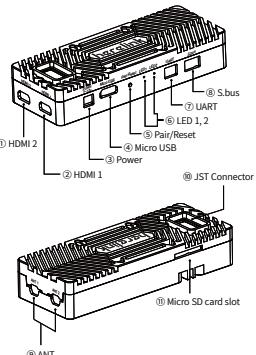


herelink

User Manual

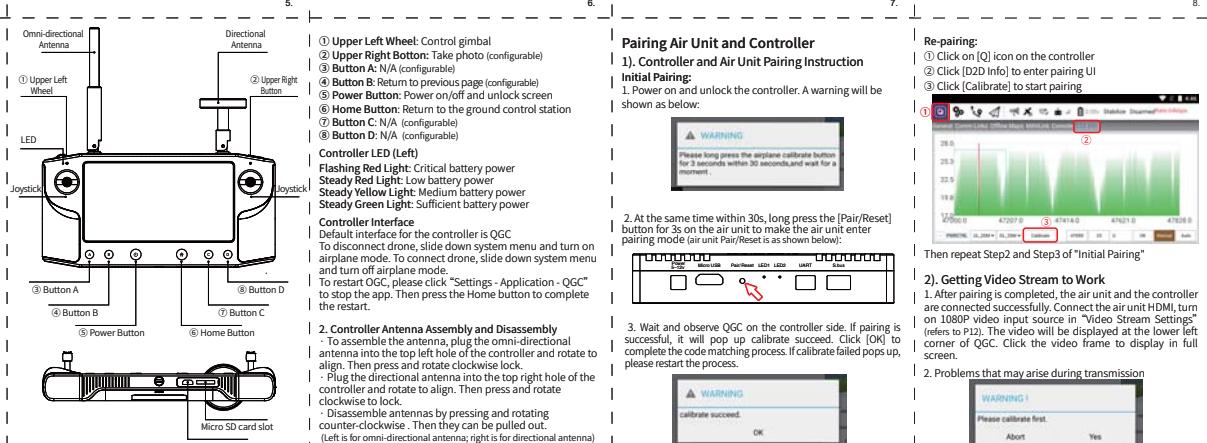
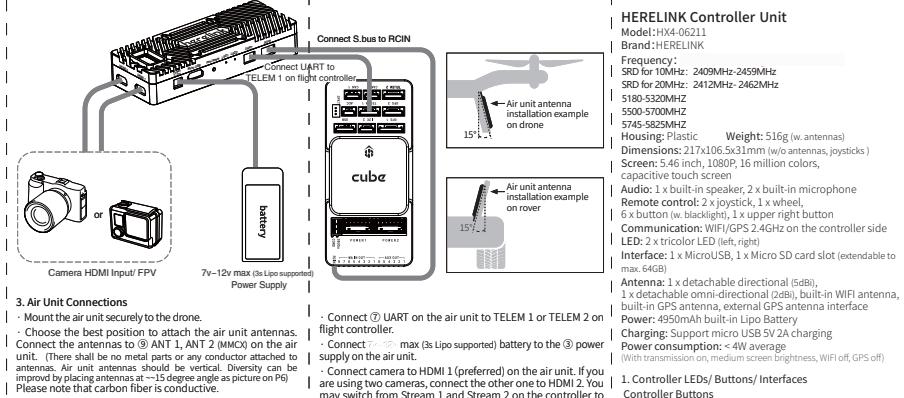
Please check on our website to find the latest user manual: <http://www.hex.aero>

Hardware Parameter	
2). Technical Specifications	
Air Unit and Controller Hardware Information:	
Processor: SoC – Pinecone S1	
AP: 4 x large core, Cortex A53, 2.2GHz	
4 x small core, Cortex A53, 1.4GHz	
GPU: 4 core, Mali-T860	
DDR: 7 x DSP	
Storage: Air Unit LPDDR3 1GB, Controller LPDDR3 2GB	
Air Unit/Controller: EMMC 4GB	
Transmission Range: FCC20km, CE/SRCC 12km	
Latency: Min 110ms	
Resolution: 720p@30fps, 1080p@30/60fps	
Frequency Band: 2.4GHz ISM	
Receive sensitivity: -99dBm@20MHz BW	
Interference recovery: > 1s	
HERELINK Air Unit	
Model: HX4-00210	
Brand: HERELINK	
Frequency: SRD for 10MHz: 2409MHz -2459MHz	
SRD for 20MHz: 2412MHz - 2462MHz	
Interfaces:	
① HDMI 2: Micro HDMI, for video input	
② HDMI 1: Micro HDMI, for video input [preferred]	
③ Power: 7V-12V max (3s Lipo supported) power input	
④ Micro USB: For debug or upgrade, support OTG	
⑤ Pair/Reset: For pairing and reset	
⑥ LED 1, 2: To indicate pairing status and transmission status	
⑦ UART: 3.3V / 5V UART	
1. Air Unit Status Indication and Buttons	
LED 1 (left)	
Steady Green Light: Receiving HDMI1 signal	
Steady Red Light: Receiving HDMI2 signal	
Steady Yellow Light: Receiving flight control data signal	
Changing Green/Red Light: Receiving two video signals	
Changing Green/Yellow-Red Light:	
Receiving two video signals and flight controller signal	
No Light: Receiving no valid video signal or flight controller signal	
LED 2 (right)	
Flashing Green Light: Pairing	
Steady Green Light: Receiving flight controller signal, and power is normal	
Steady Yellow Light: Unpaired/no valid signal received	
Flashing Red Light: Unstable power	
No Light: Air unit is not powered	



2. HERELINK Air Unit Set V1.1 Interfaces Definition

Power	Pin #	Name Description
① 2	1	Power IN 7V-12V max (3s Lipo supported)
	2	Ground pin
UART	Pin #	Name Description
① 2	1	RXD RX of air module 3.3V / 5V TTL
	2	TXD TX of air module 3.3V / 5V TTL
	3	Ground pin
S.bus	Pin #	Name Description
① 4	1	S.bus out 1 RC output
	2	Ground pin
	3	RSVD For future use
	4	Ground pin



Q1: Why is there no video transmission after the camera is connected to Herelink via HDMI? Meanwhile the controller screen shows "WAITING FOR VIDEO" and video stream at the upper right corner is changing around a few pixels?
Solid answer: Check if HDMI video resolution is 1080P (QGC resolution setting must be consistent with camera resolution setting). Please also check HDMI connection, or replace the HDMI cable with a new one.

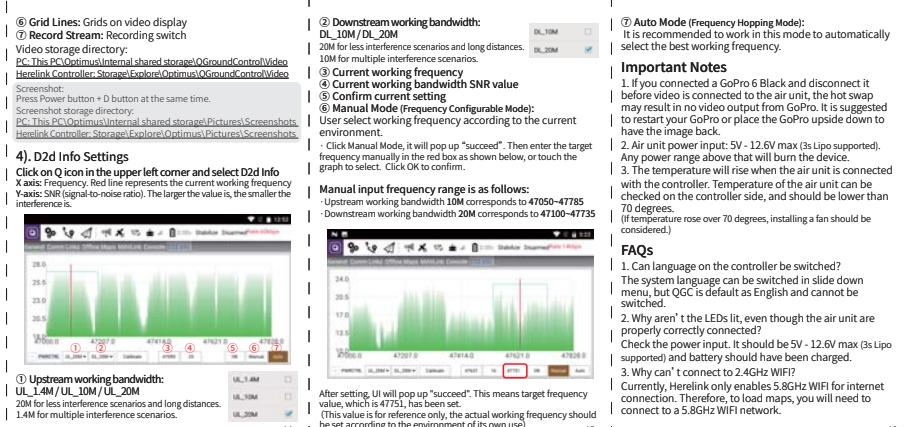
Q2: The link rate in the upper right corner display 0kbps
Solution: Re-pair or restart the unit.

3). Video Stream Settings

Click on the airplane icon at the upper left corner and select [Video Stream] from the drop-down menu on the right.



- ① Rate: Configure link rate (related to environment and current working mode)
- ② Stream 1: HDMI 1 (closer to power supply interface)
- ③ Stream 2: HDMI 2
- ④ Enable Stream: Turn on/off video display
- ⑤ 1080P Video: Choose between video resolution. When the radio button is on: 1080P; off: 720P



Warning

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standards(. Operation is subject to the following two conditions:

- (1) the device may not cause harmful interference;
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

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