

Hawkeye digital camera video transmitter combo

User Manual

Specification:

Item	Spec	Remarks
Input voltage	DC-3.7V	Voltage range:2.5V-5.5V
Standby current	200mA	Adjustable power test:3.7V,open WIFI
Working current	230mA~300(dynamic)	Adjustable power test:3.7V,open WIFI
Charging current	250mA	Adjustable power test:5.0V
Power off voltage	3.35V	Adjustable power test
Power off current	<35uA	Adjustable power test
SENSOR	1/4 2 mega pixels	
FOV	Horizontal: 80°	
FPC type	KC20-V1.0	
Focal length	30cm	
Working temperature	-10°/+80°C	
Indicator	Blue light	Working indicator
WIFI Spec		
Protocol	802.11 a/n	
Modulation mode	OFDM	
Working frequency	1 channel: 5.180GHz; 2 channel: 5.200GHz; 3 channel: 5.220GHz; 4 channel: 5.240GHz; 5 channel: 5.745GHz; 6 channel: 5.765GHz; 7 channel: 5.785GHz; 8 channel: 5.805GHz; 9 channel: 5.825GHz;	
Transmission frequency	18dBm@11b/14dBm@11g/13dBm@11n (Tolerance:+/-2dB)	
Receiver sensitivity	1. 6M: -89dBm@10%PER; 2. 11M: -88dBm@8%PER; 3. 54M: -73dBm@10%PER; 4. 72.2M: -70dBm@10%PER	
Working mode	P2P	

1. Operating instruction:

- 1.Power on: long press “power on” button, blue LED flash slowly.
- 2.Power off: long press"power on" button.
- 3.Charging: charging by Type-C cable, red LED stay always on.
- 4.Pair successfully, blue LED stay always on.

Figure

Front side power on



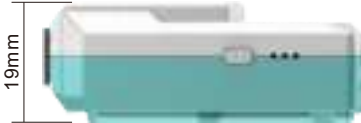
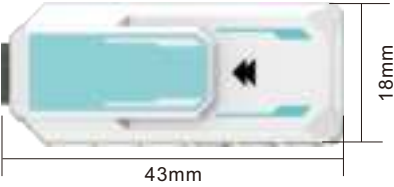
Front side charging



Back side bundled with 2pcs magnets



Dimension:



5G DIGITAL GOGGLES VIDEO TRANSMISSION SYSTEM

explorer digital receiver goggles

User Manual



**Warm tips:** pls read this manual carefully before operate the goggles, to avoid wrong operation cause the damage of the goggles or any other loss of personal property.

1. Features:

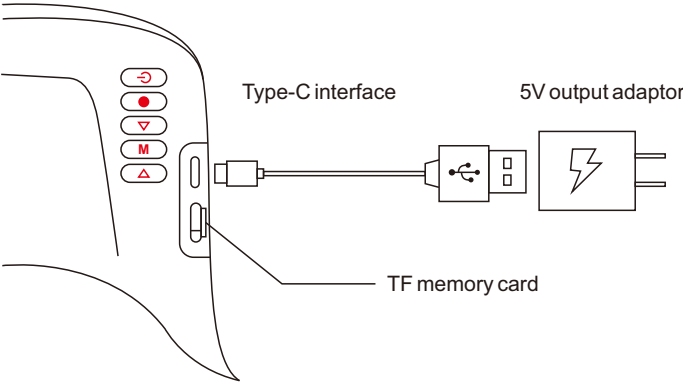
- 1. 5G digital wireless receiver screen, light and compact
- 2. 4.3 inch screen size, clear image transmitted by digital wireless video transmitter
- 3.Easy to use
- 4.High brightness 500cd/m
- 5.Weight only 350g(not including a chargeable 18650 battery)
- 6.Compact ergonomic design, immersive flying experience

2.Specifications:

Item	Spec	Remarks
Input voltage	USB 5V	Voltage range: 5.5V-4.5V.
	Lithium battery 3.7V	Voltage range: 4.5V-3.4V.
Standby current	400mA	Test by 3.7V
Working current	420-450Ma(dynamic)	Test by 3.7V
Recording current	470mA	Test by 3.7V
USB charging	670mA	USB 5V input
Power off voltage	3.45V	adjustable power test
Power off current	34μA	Tested by 3.7V
FFC type	0.5*16P*L100 reverse	
Screen type	RGB,800*480	
Recording resolution	800*480 20 frame	
Picture resolution	800*480	
Working temperature	-10°/+80°C	
Indicator	Blue light Red light Green light	Working indicator charging indicator/low Battery indicator Full charge indicator
WIFI Spec		
Protocol	802.11 a/n	
Modulation mode	OFDM	
Working frequency	1 channel: 5.180GHz; 2 channel: 5.200GHz; 3 channel: 5.220GHz; 4 channel: 5.240GHz; 5 channel: 5.745GHz; 6 channel: 5.765GHz; 7 channel: 5.785GHz; 8 channel: 5.805GHz; 9 channel: 5.825GHz;	
Transmission frequency	18dBm@11b/14dBm@11g/13dBm@11n (Tolerance:+/-2dB)	
Receiver sensitivity	6M: -89dBm@10%PER, 11M:-88dBm@8%PER	

3.FPV goggles charging:

- 1.FPV goggles charged by 1pcs 18650 chargeable battery, when voltage is too low, battery indicator remark shows red on monitor, means should recharge.
- 2.Charging methods
- 2.1: Power off goggles
- 2.2: By Type-C cable connect FPV goggles and adaptor(5V output adaptor like mobile phone one)
- 2.3: Red indicator turns on means goggles is charging, red LED turns off green LED turns on, means charging finished.



Warm tips: pls first insert TF card then power on goggles, it's better to format TF card before 1st time use.

4.Operating instruction:

1. (power on button)
2. (recording/picture shot button)
3. (down button)
4. (menu/confirm button)
5. (up button)
6. antenna interface
7. status indicator

Details instruction

1. Power on button: long press 2 seconds blue LED turns on to power on, in FPV mode double click "power on button" to open pairing menu, in menu mode short press "power on button" to exit menu.

1.1 Power off: long press 2 seconds blue LED turns off means power off.
2. recording/picture shot button

2.1. short press for picture shot

2.2. long press start recording, short press or long press to pause recording.
3. down button: in FPV mode adjust backlight/in menu mode move cursor
4. Power on then press"M" button to menu settings, press "up/down button" move cursor to select camera pairing, then press"M" button for confirm, searching camera then press"M"button for confirm, show pairing successfully. Goggles will auto power on, right now image shows, if no image, then power off then power on goggles.
5. Up button: in FPV mode adjust backlight/in menu mode move cursor
6. SMA inner hole antenna interface(match with inner pin antenna for use
7. Status indicator:

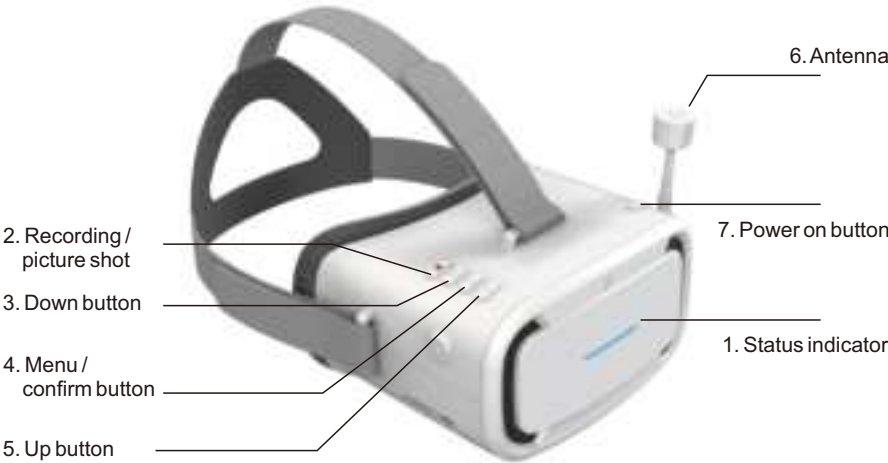
Blue LED turns on, working mode

Red LED turns on, charging mode

Green LED turns on, charging finished mode

5.Schematic diagram:

Front side



Back side



6. Warm tips:

1. goggles power on if there is no image, maybe short of power supply, pls make sure full of charging then operate goggles.
2. If there is no image, pls make sure the transmitter is working properly, pairing is successful.

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.