

## Transmitter (AP ) Video module RAK566 user manual

RAK566 is a long range 5.8G WIFI video module with Full HD(1080P@30FPS) transmitting.

- 1080P(1920\*1080)@30FPS;
- 720P(1280\*720)@30FPS;
- VGA(640\*480)@30FPS.

### PIN Definition



Label 1 Power definition      Label 2 Data(UART) definition

PIN	Name	PIN	Name
1	VCC 7-23V		
2	VCC 7-23V	1	UART TX ,TTL
3	GND	2	UART RX ,TTL
4	GND	3	GND

Notes: the power interface strictly prohibit to connect other connector . Or that must damage the module .

### DATA INTERFACE :

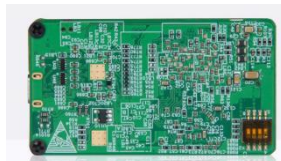
This UART is using for TRANSPARENT DATA .The socket will use UDP protocol .The IP address is the module' s valid IP address , and the UDP port is 1008 .

When the wifi device(smart phone) connect the softAP , the wifi device(smart phone APP) must open the UDP socket , and then send data to RAK566 module firstly . Once the module get the data , the data will be send out via UART and the module will remember the wifi device' s IP and UDP PORT. After that the module can send data back once the module receive data via UART .

Before Sending data to the module , you must add the protocol head (0x01 0x55) before the valid data . The module will cut off the protocol head and send the valid data via UART to the host MCU . The host MCU send the valid data to the module via UART . The module will add the protocol head(0x01 0x55) again before sending to wifi device .so the smart phone APP will get the data including protocol head.

- Such as, all data is HEX data .
- sending : **01 55 66 88 99 00 44**(5bytes valid data )
- ACK: **01 55 88 99 00 44 33**(5bytes valid data)

### DIP Switch definition



Notes: The DIP Switch is using for some new function . Must keep the lebel 3 and lebel 4 localing in OFF

position.Or willl make the module abnormal .

After power on the module,please scan the softap' s name: **RAK56X\_XXXXXX** (please make sure your **smartphone supporting 5G SSID**) . X means MAC address.password : 12345678

Android APP: <https://www.pgyer.com/camsight>  
IOS APP : Search in APPLE STORE with **camsight sport** and install.

Document Center:  
[www.rakwireless.com/en/download](http://www.rakwireless.com/en/download)  
[wiki.rakwireless.com/doku.php](http://wiki.rakwireless.com/doku.php)

Support Center:  
[supporten.rakwireless.com/](http://supporten.rakwireless.com/)

Website:  
[www.rakwireless.com](http://www.rakwireless.com)

APP SDK Source code(rakvideo):  
[www.github.com/rakwireless](http://www.github.com/rakwireless)

## RAKVideo APP Camsight user manual

**Note: Please make sure your smartphone supporting 5G WIFI!**

- 1, Firstly,power on the receiver and transmitter and waiting the blue LED light more than 10s. Open your smartphone' s WIFI setting and connect the receiver' s SOFTAP name (RAK56X\_XXXXXX) .
- 2, Please make sure your transmitter' s blue LED lighting more than 10s. Open camsight ,and click the play icon in the bottom-right corner. Then you can play the video now .



3,This product will show the transmitter' s IP address (default : 192.168.100.1)when you play the video .Camsight can record or take photo in local time .

4, In Camsight home page,you can input the RTSP URL to request the streaming in any product including Flylink product ' s URL is showing in the picture .  
**rtsp://admin:admin@192.168.100.1/cam1/h264.**