

4G Video Transmitter Guidelines

(Remark: the guideline is just for the Audio & Video Transmit Unit with C/S technical framework, there is a special guideline for the Unit with the ones of B/S)

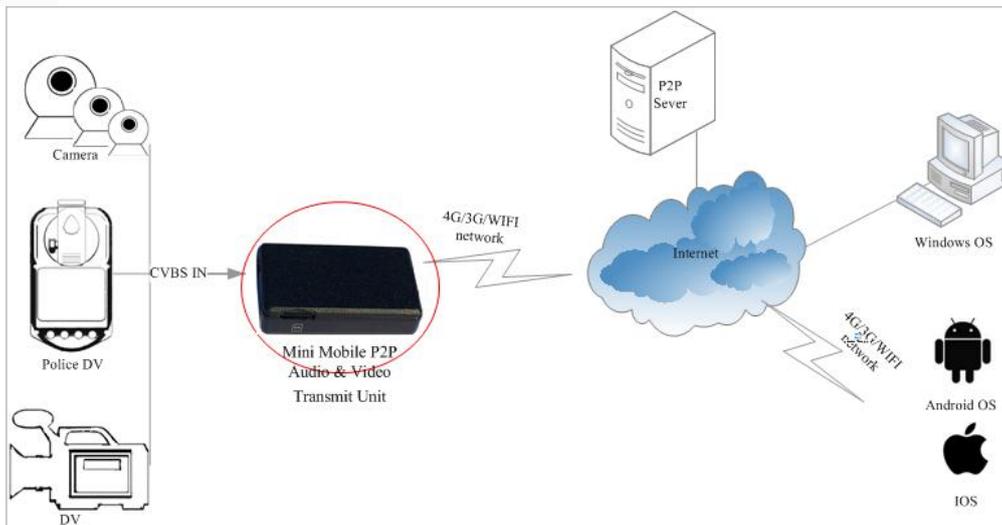
1. Product introduction

1.1 Appearance structure:



Product Reference

1.2. The topology chart :



1.3. Advantage of the product

1.3.1. Low bit stream technology:

a) C/S technical framework : Using H.264 coding technology and P2P communication protocol. Supporting Intelligent terminals with IOS or Android OS or Windows OS to connect the unit directly.

b) B/S technical framework : Using FLV coding technology and RTMP Streaming media communication protocol. Supporting web page video.

1.3.2. More Networks optional:

a) The standard configuration: WIFI \ AP.

b) The optional configuration: 4G LTE TDD \ 4G LTE FDD \ 3G WCDMA.

1.3.3. Parameter setting: IOS phone、Android phone、PC are supported to connect with the AP and to set or modify the parameter related.

1.3.4. Storage way optional: video and audio information can be stored in mobile phone terminal、PC terminal or TF card inside the unit.

1.3.5. Automatic to dial: The unit can be redialed automatically to connect with the network again when the network being interrupted.

1.3.6. The heartbeat function: only the customer software operated can the video stream be transmitted, Other situations the heartbeat function works and the stream flow can almost be ignored.

1.3.7. Small size: being convenient to carry and use as spy button DV.

1.3.8. GPS positioning: it belong to optional configuration.

1.4. Parameter table:

Parameter	Introduction in brief
networking protocol	C/S: P2P B/S: RTMP
Video management	C/S: client apps of android OS, IOS and Windows OS are all supportable B/S: web page management way is supportable
Network optional	The standard configuration: WIFI \ AP. The optional configuration: 4G LTE TDD \ 4G LTE FDD \ 3G WCDMA
Video code	C/S: H.264 B/S: H.264 RTMP, FMS is applicable
SIM Card	Support Micro Card with 3G standard or 4G standard
Power switch	The type with 5V/2A DC: To start or restart by pushing the power switch button for 2 seconds, to switch off by pushing for 5 seconds. 5V/2A DC, Standard Micro USB 2.0 terminal The type with 12V/2A DC: It can connect with the power outlet directly via a power adapter
Functional switch	Three band switch: WIFI mode、AP mode、3/4G mode AP mode: Under power on situation, IOS phone、Android phone、PC are supported to connect with the AP directly and to set or modify the parameters related, such as network mode, WIFI account, the video resolution, bit rate, time, image, and so on WIFI mode: Under power on situation, the unit can be transmit the data via a preset and available WIFI network account. 3/4G mode: Under power on situation, the unit can be transmit the data by 3/4 network available
CVBS IN	USB AV terminal is applicable a) to connect with the CVBS OUT terminal of the other camera devices such as Police DV, and so on b) one choice from two optional as follow: DC 3.3V OUT or Voice dual channel

Indicator light	Three in one features: Power indicator light: it will be red while power on for 2 seconds Working indicator light: it will be red and flashing uniformly when it normally operates Charge indicator light: it will be red at the beginning and it will become green while it have been charged fully after 2 hrs or so.
Video resolution	Two optional: CIF(352×288), D1(720×576)
Heartbeat function	To keep connecting situation with only several bit while the picture is under stationary state
Automatic re-dial	Watch dog has set to help the unit to automatic re-dial when the network interrupted
TV system	PAL/NTSC
Bit rate	64-6094K bit adjustable
Frame rate	1-25fps adjustable
Time delay	Less than 1 second under normal networks
Memory way	C/S: video and audio information can be stored in mobile phone terminal、PC terminal. It also support to be stored in the TF card within the unit B/S: all of the information can be stored in the IP sever or TF card
GPS	GPS positioning function supported
Battery	Model with 5V/2A DC: Polymer lithium battery, 3.7V, about 2000MHA, it supports the unit to continue to run for 2~5 hrs depending on the networks situation. It needs about 2 hrs to charge the battery. Model with 12V/2A DC: no battery inside the unit
Power consumption	Less than 3W under normal 3G or 4G network operation, and less than 1.3W under normal WIFI mode
Time print	The actual date and time can be displayed on the Video screen of the customer software
Appearance	Plastic. 76mm(L)×46mm(W)×20mm(H). Black. Less than 90g with battery inside
Outside the work environment	Celsius -10℃~+55℃, humidity 10%~90%

2. Device Operating guide

2.1. **Power supply / Charge:** Model with 5V/2A DC: USB power adapter with 5V/ 2A DC is applicable. It need 2 hrs to charge the battery full.

2.2. **SIM Card:** Micro card of 3G or 4G is applicable. The unit can transmit data by 3/4G networks in 30 seconds or so while it power on in a normal 3/4G networks

2.3. **To connect the AP hotspot:**

2.3.1. To activate the hotspot: Under the situation of power on, push the slide to AP mode, 25 seconds or so late, the AP of the unit will be activated with the indicator Light flashing and the unit will enter the mode for parameter setting.

2.3.2. To connect with the AP (name:CVAP) hotspot: Setting your PC or mobile phone to WLAN mode to search and choose the AP network of the unit: CVAP



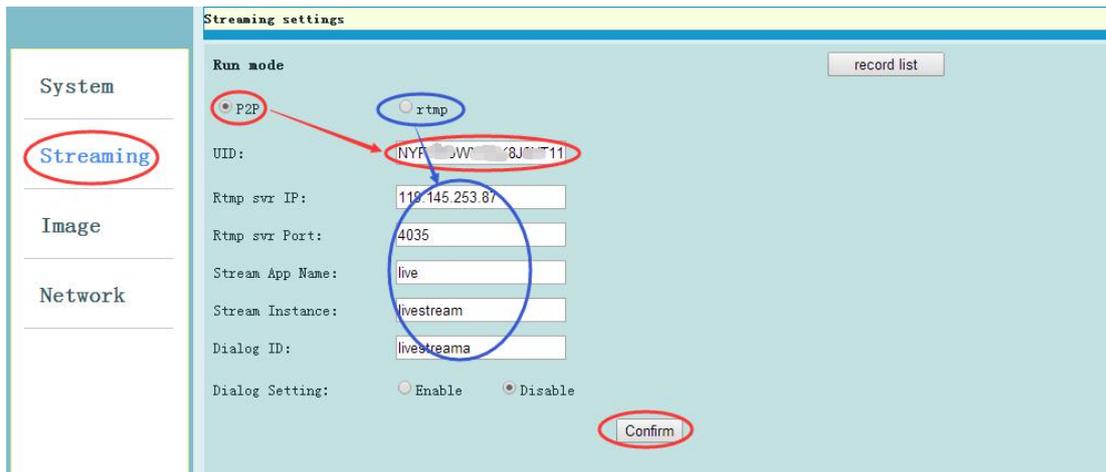
2.4. **Setting the parameter related:** visit the IP of the unit with [HTTP://192.168.199.1](http://192.168.199.1) in any browser to enter the setting interface as follow:



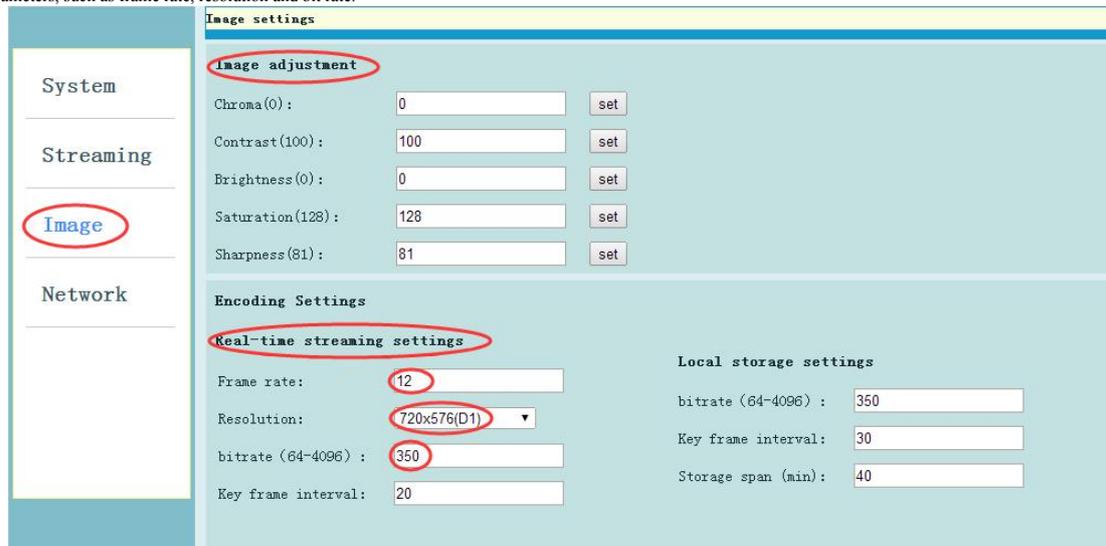
2.4. 1. System settings : Under the menu of current state as follow, to set time synchronization, system upgrade, access password, and so on. **You are kindly and strongly advised to changes the the password at once. The password supported a 6-digits combination of numbers and Alphabet letters**



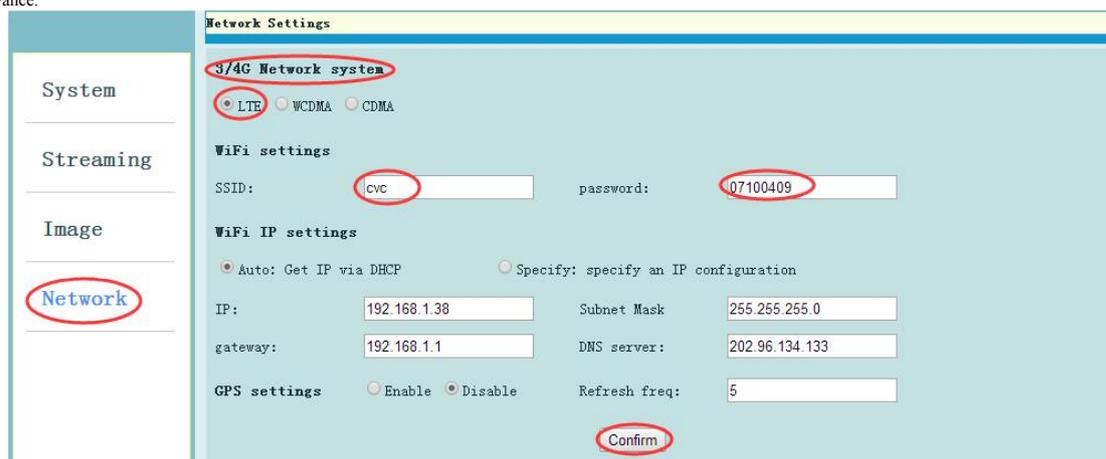
2.4.2. Streaming settings: Under the menu of current state as follow, to choose the run mode by P2P mode or RTMP mode. Under P2P mode, to key in the unit's UID, which is a special 20 bit symbol combining with English letters and numbers.



2.4.3. Image settings: Under the menu of current state as follow, to adjust image situation such as chroma, contrast, brightness, and so on. According to the situation of the networks, to set other parameters, such as frame rate, resolution and bit rate.



2.4.4. Network settings: Under the menu of current state as follow, one network mode can be chosen in advance from LTE, WCDMA and CDMA. The SSID and it's password also can be set in advance.

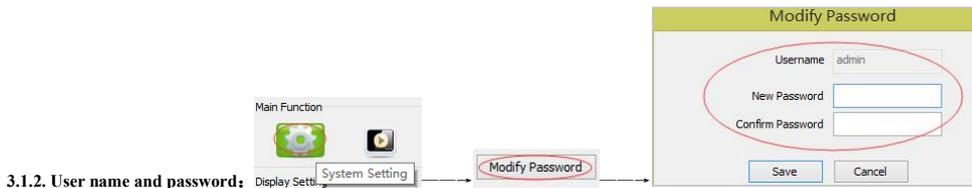
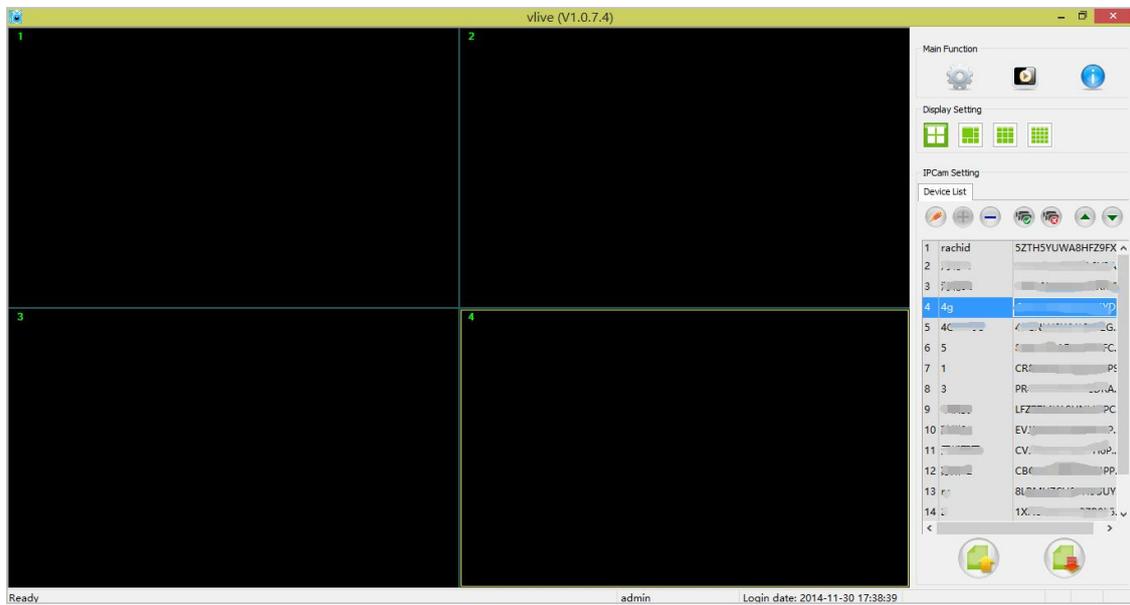


3. Client software and client apps operation guideline

3.1. PC client software

3.1.1. Installing and operating the client software: To visit http://pan.baidu.com/s/1bnfGTK7?qq-pf-to=pcqq_c2c to load the software  , to click the  to install it.

Afterwards a icon as  will appear on the desktop. To double click the icon  , an interface will appear as follow:



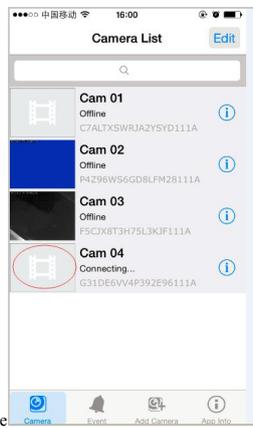
3.1.2. User name and password:



3.1.3. Add new device:

Under "Device List", to chose a number freely , to click +, "Add Device Information" interface will appear as follow:

some information can be set or modified respectively freely——



3.2.3. Watch the videos: Click the camera which be on line then watch the video respectively on line.