

# Android live streaming+groupPTT

## MCP APP

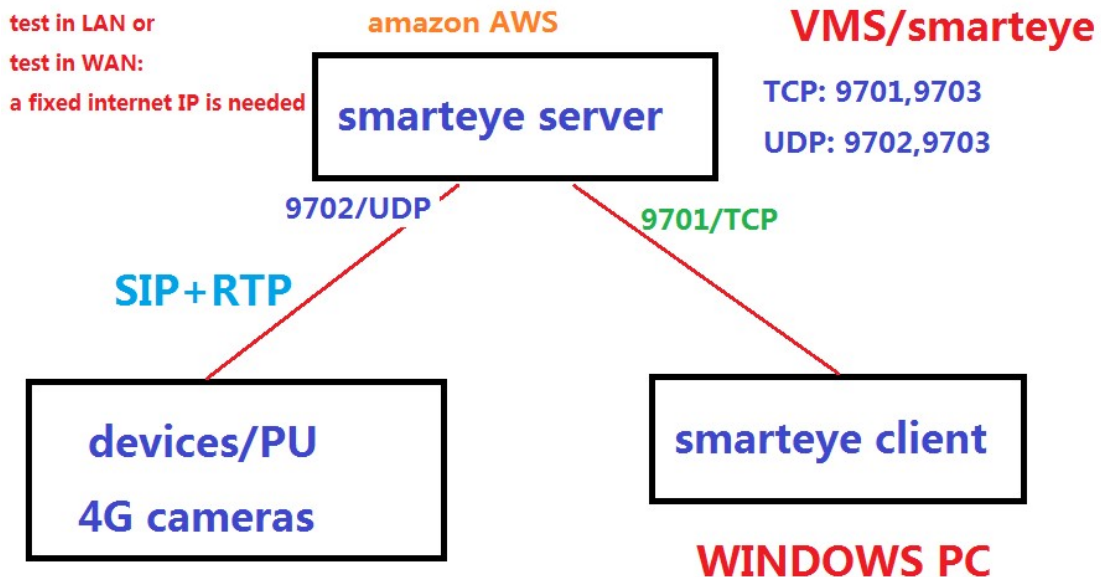
MCP provides below functions,

- ✓ encoder+live streaming push to VMS/smarteYE, including recording, live streaming, GPS tracking, 2-way audio , alarm report and snapshot. This part of work is called MPU
- ✓ groupPTT/PoC
- ✓ mobileClient(pull stream+decoder) + privateIM(like wechat)
- ✓ e-map to locate other units
- ✓ playback

free download MCP APK from below URL by web browser on your phone for free test with VMS/smarteYE.

<http://up.besovideo.com:7780/MCP.apk>

MCP can work as a 4G camera, and also as a mobile client to live view other cameras, together with group PTT/PoC.

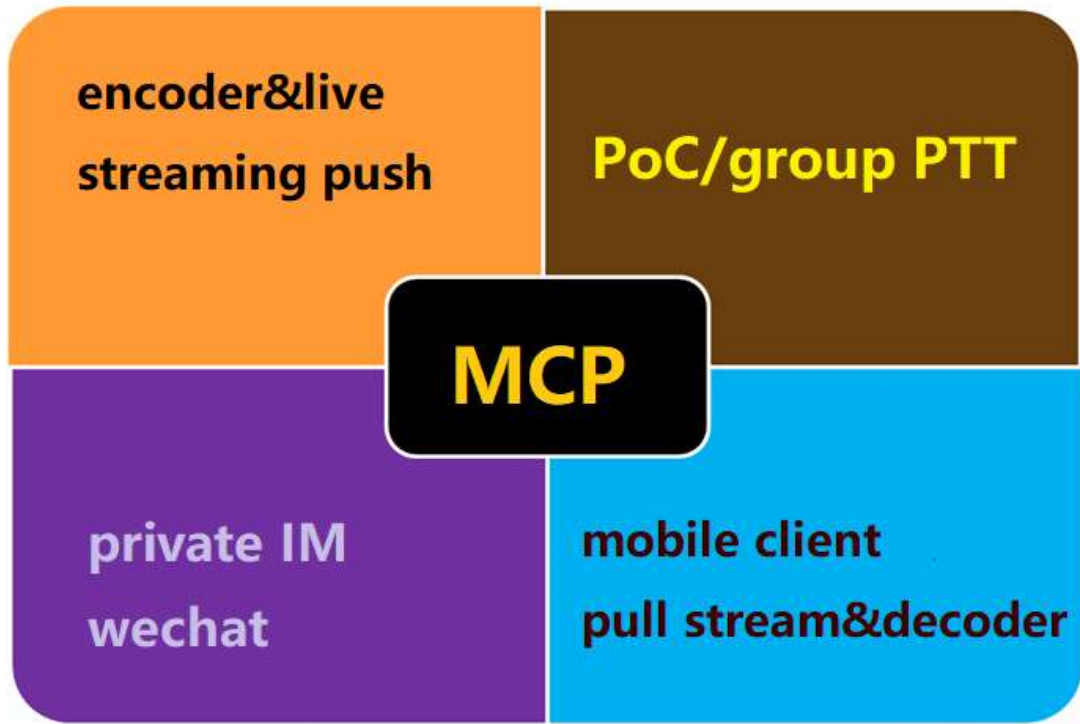


large scale VMS/smarteYE,

<http://en.besovideo.com/product/38.html>

# 1 main functions

main function blocks shown as below,



4:56

4G+ 67



Login:test



MCU function

Map



group PTT

POC



MCU=mobile Client

Preview

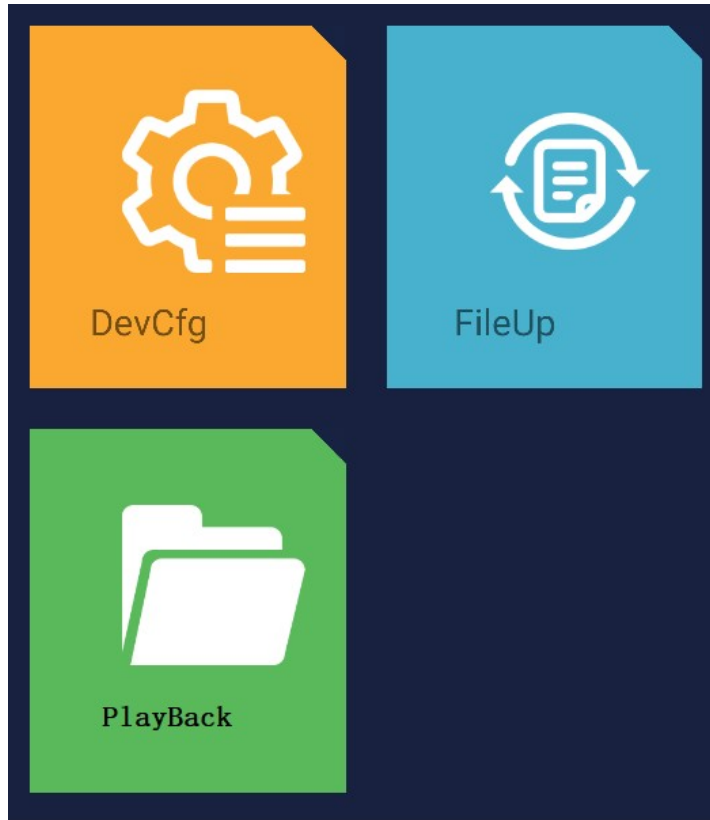


MPU=encoder+live stream

Record



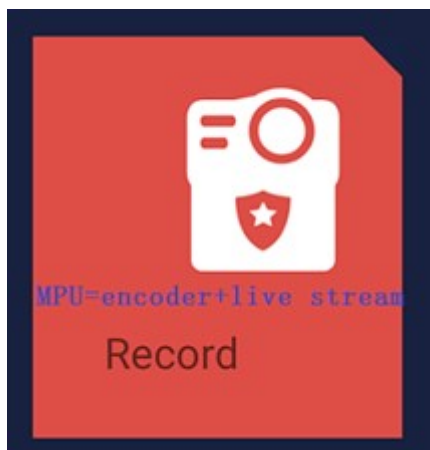
LocSet



Work on body cameras,



## 2 Encoder&live streaming upload



This audio&video encoder&live streaming upload function is called MPU(mobile pre-set,that is a mobile video terminal), that means a device, a 4G camera or a 4G DVR.

It responds to those keystrokes, including REC/snapshot/SoS/PTT etc, and the response is global in this APP, that means it works even in other function part within this APP.

It works on an android phone like this,



It works on 4G body camera like this,



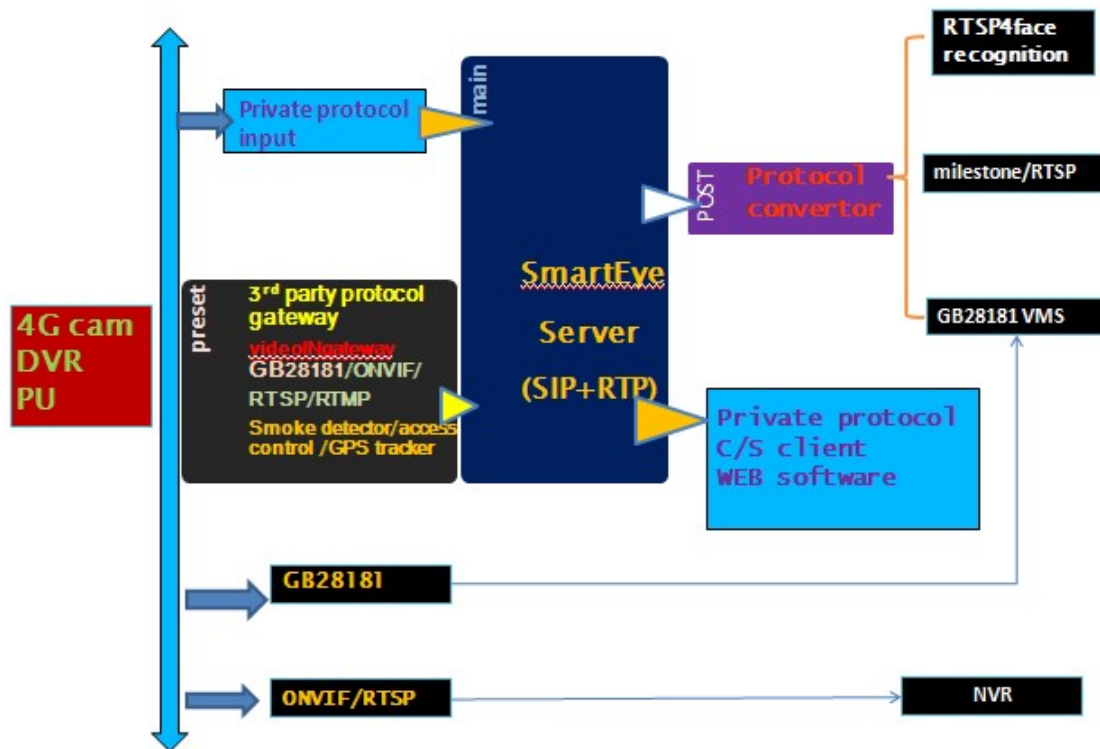
This part of software provides below functions,

## SmartEye system, key functions



And multiple protocols supported by the system, basic is the SIP+RTP based private protocol called smarteye, and ONVIF/RTSP etc well supported, e.g., good cooperation with milestone,





## 2.1 Live streaming to VMS

Demo test on the smarteye server in China,

- ✓ Server IP: 115.28.79.237, 9701/TCP for client login, 9702/UDP for camera login,
- ✓ username/passwd: test/123, bwc1/123456, bwc3/123456

there are two main mechanisms in live streaming,

- 1) The VMS/client requests actively, called VoD, there will be no data flow from the device if no request from the VMS, this is the usual way the unit works, that means the device won't push streaming to VMS by itself.
- 2) The device push stream to VMS on some certain urgent circumstances, for example, the SoS key is pressed.

test MCP with smarteye server in China

on android phone, MCP

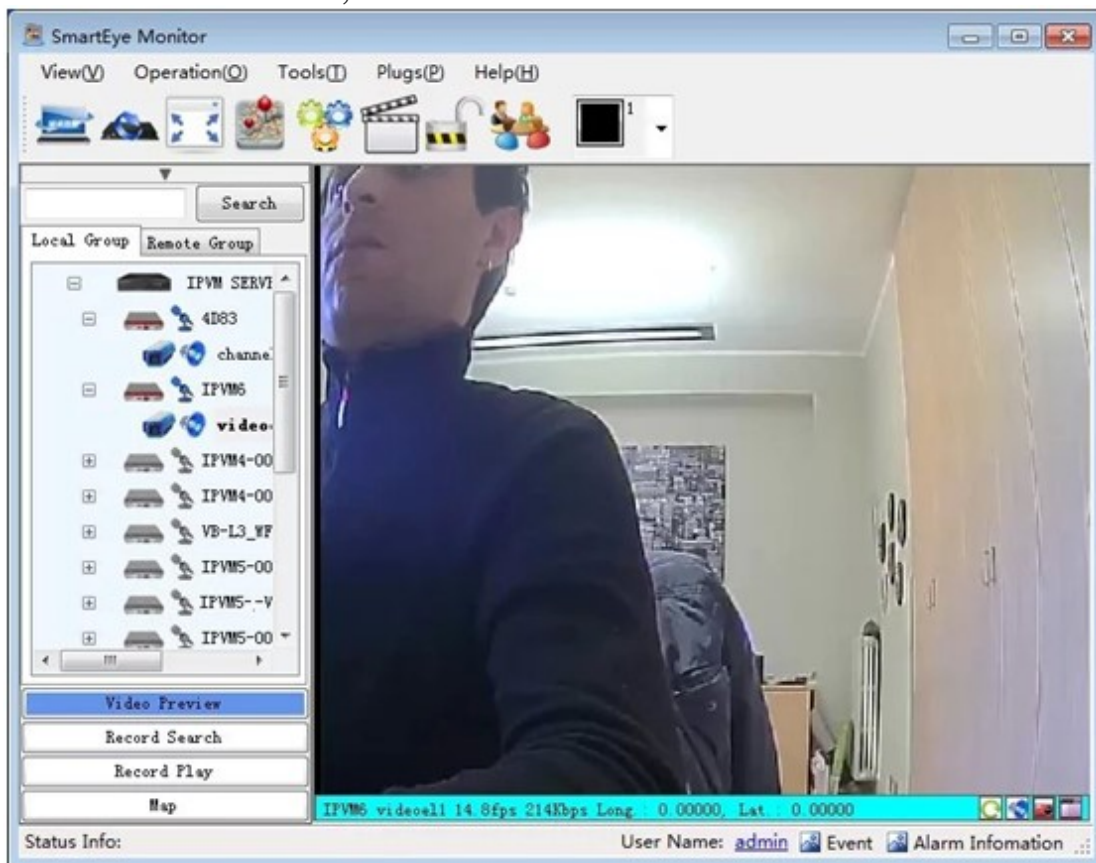


on windows PC smarteye client



MCP can work as a 4G camera, and also as a mobile client to live view other cameras, together with group PTT/PoC

Run smarteye client/Monitor, Double click on "video" channel to get live stream from the camera,



## 2.2 recording

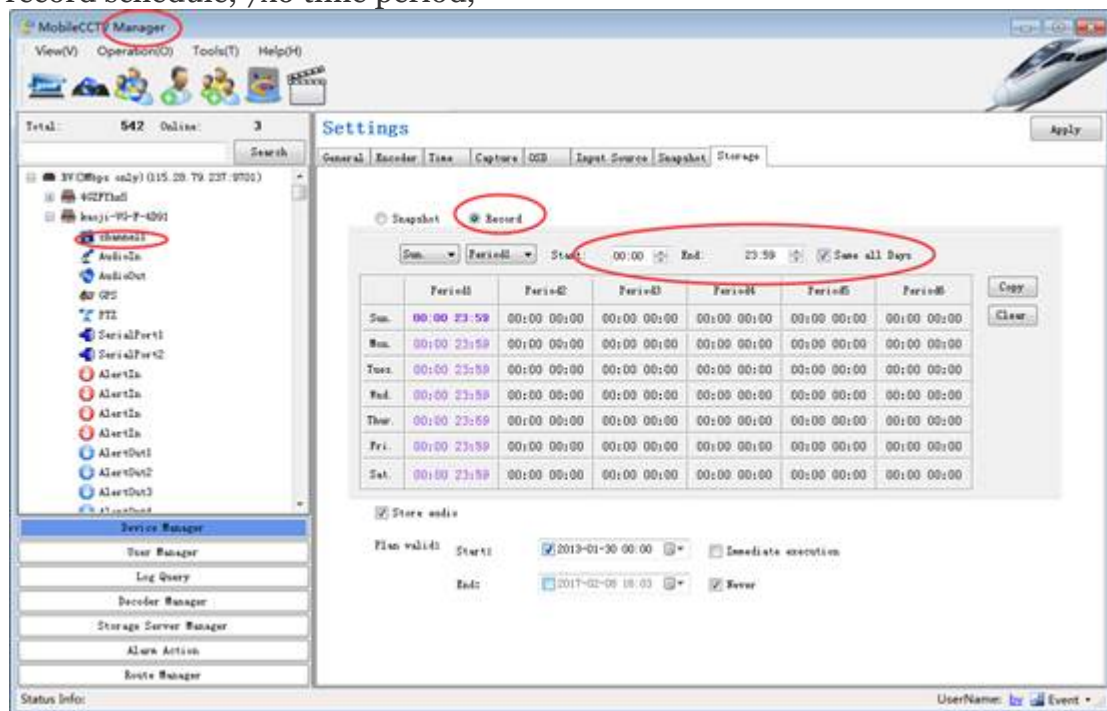
there are three places where the audio/video recording files locate.

- 1) Recording on the device,
- 2) Recording on the VMS/smarteye server side(NRU),
- 3) Recording on the smarteye client, that is recording at live view.

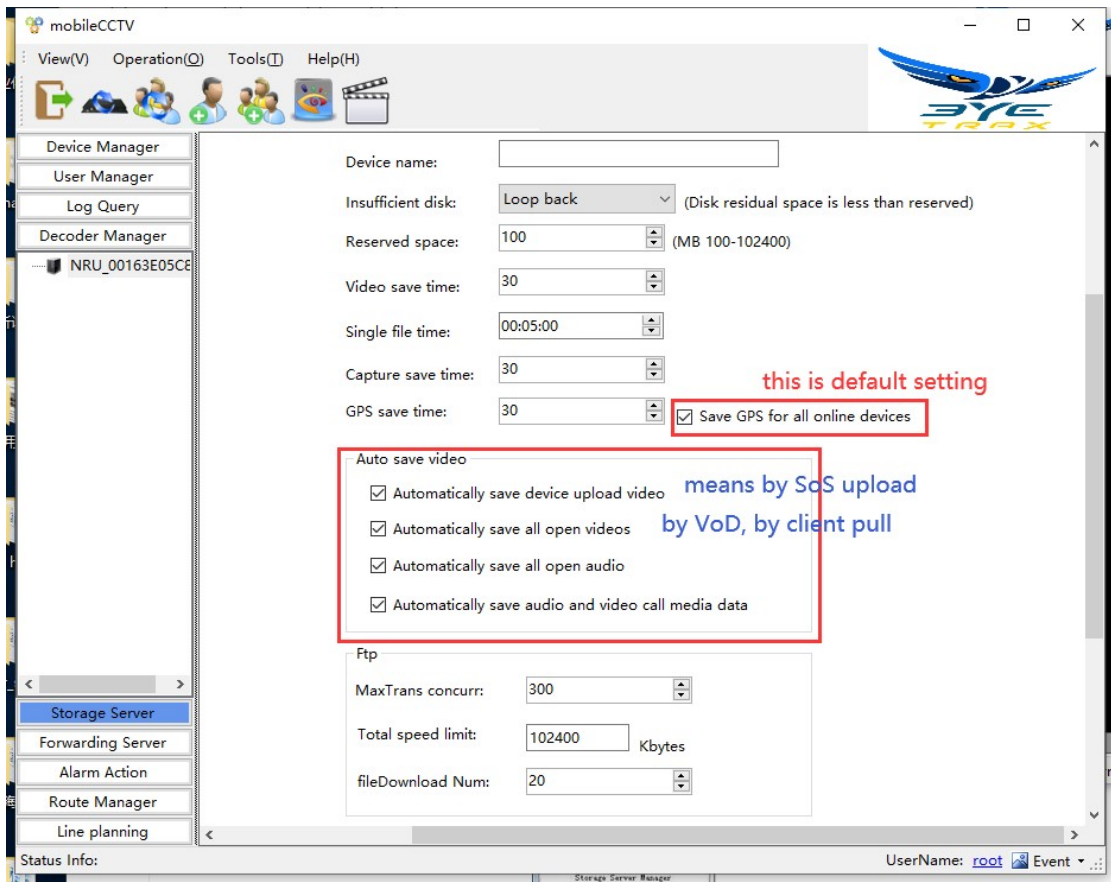
### 2.2.1 for recording on server side

there is recording schedule and downloading schedule,

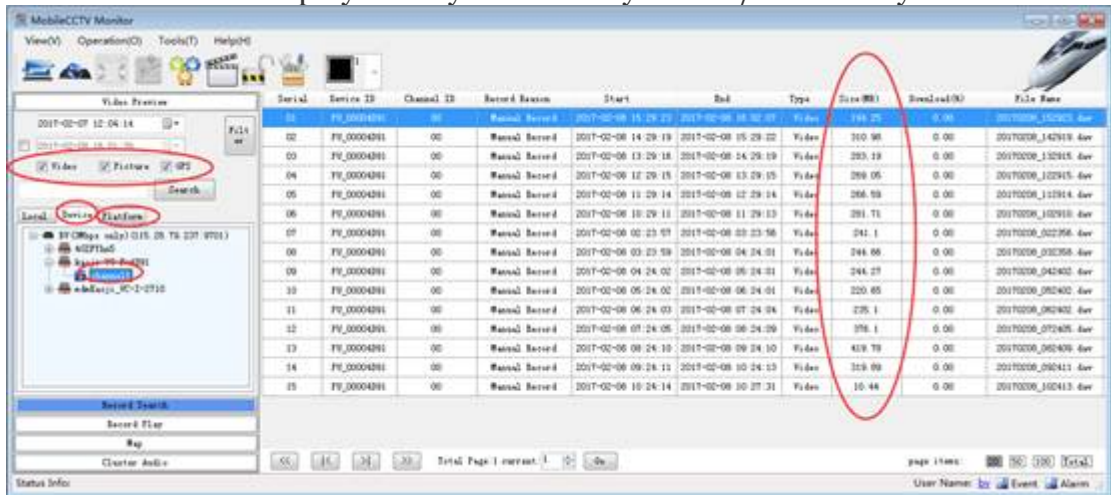
- A) Recording schedule is to  
record schedule, 7x6 time period,



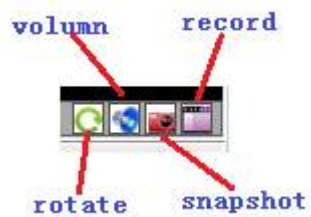
and may recording any streaming through the server,



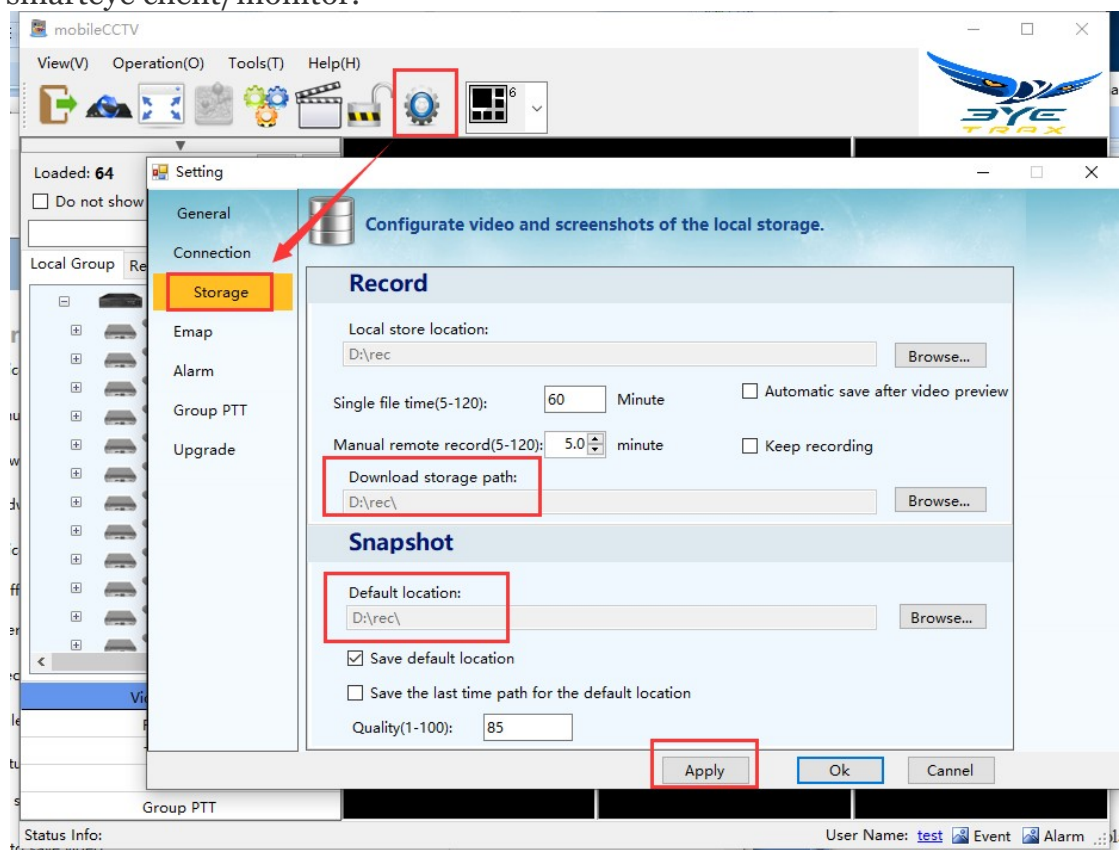
The recording files in the above three places can be reached&download&playback by the smarteye client/Monitor by date&time.



## 2.2.2 for recording on client



click this “record” to record audio/video stream in smarteye client/monitor.



## 2.2.3 for recording within the camera

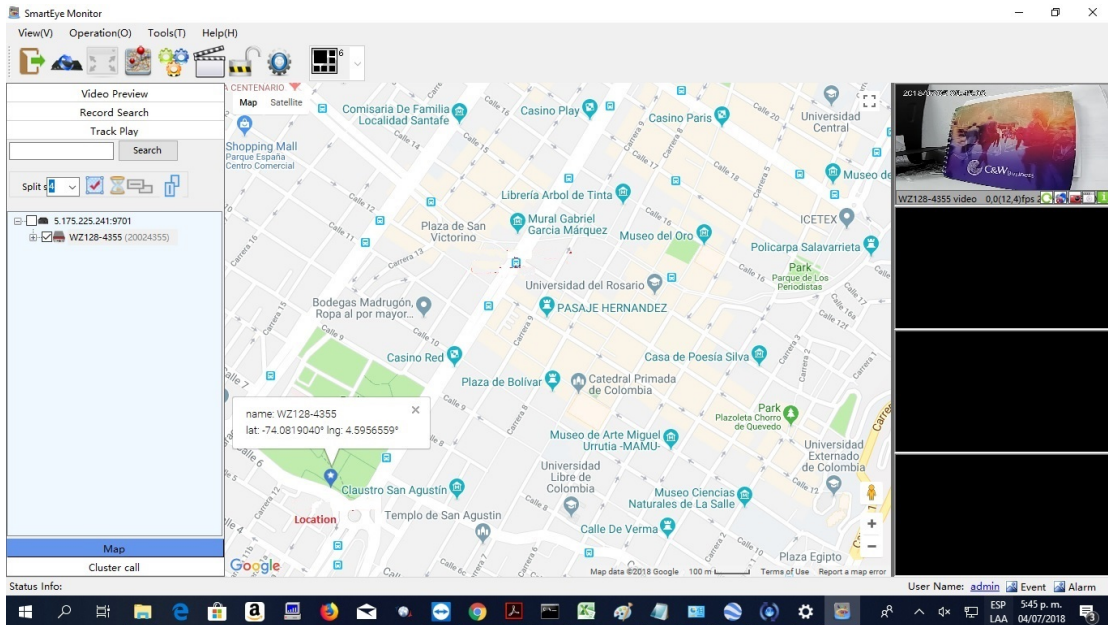
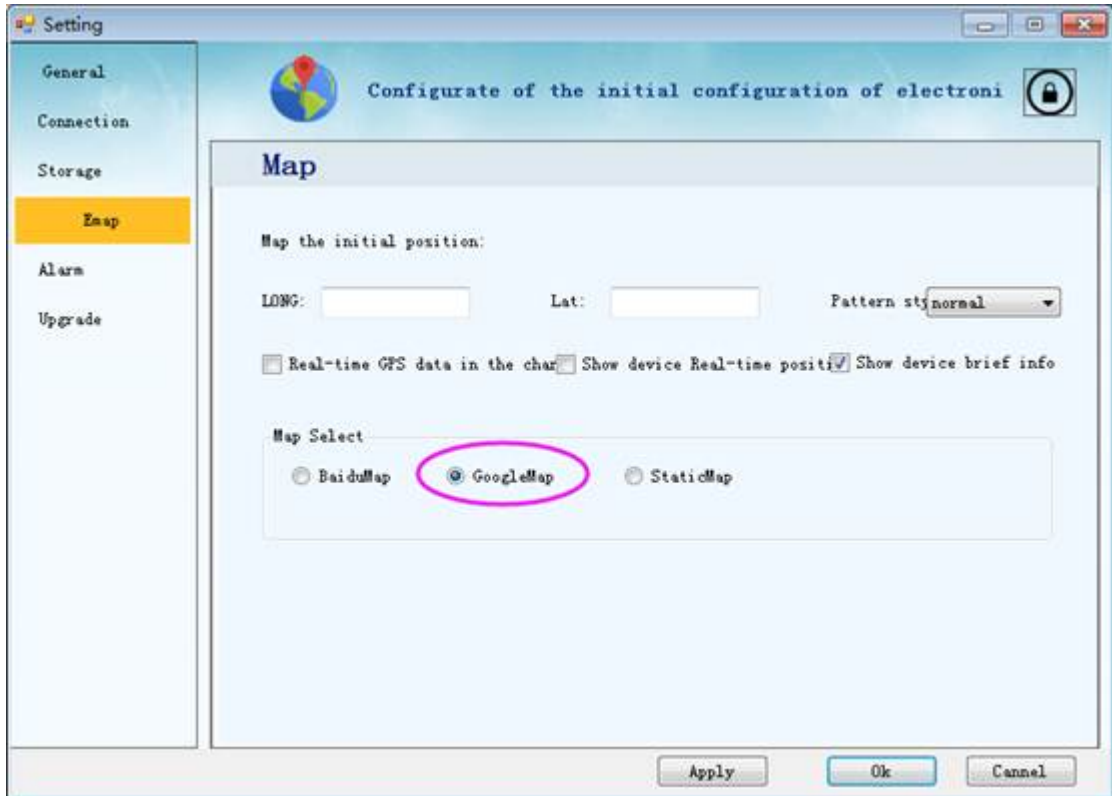
the camera records audio&video when “REC” key pressed, there will be a red dot to indicate recording, and a red LED blinking slowly at the same time. Note, keystrobe only valid for body cameras, not for phones.

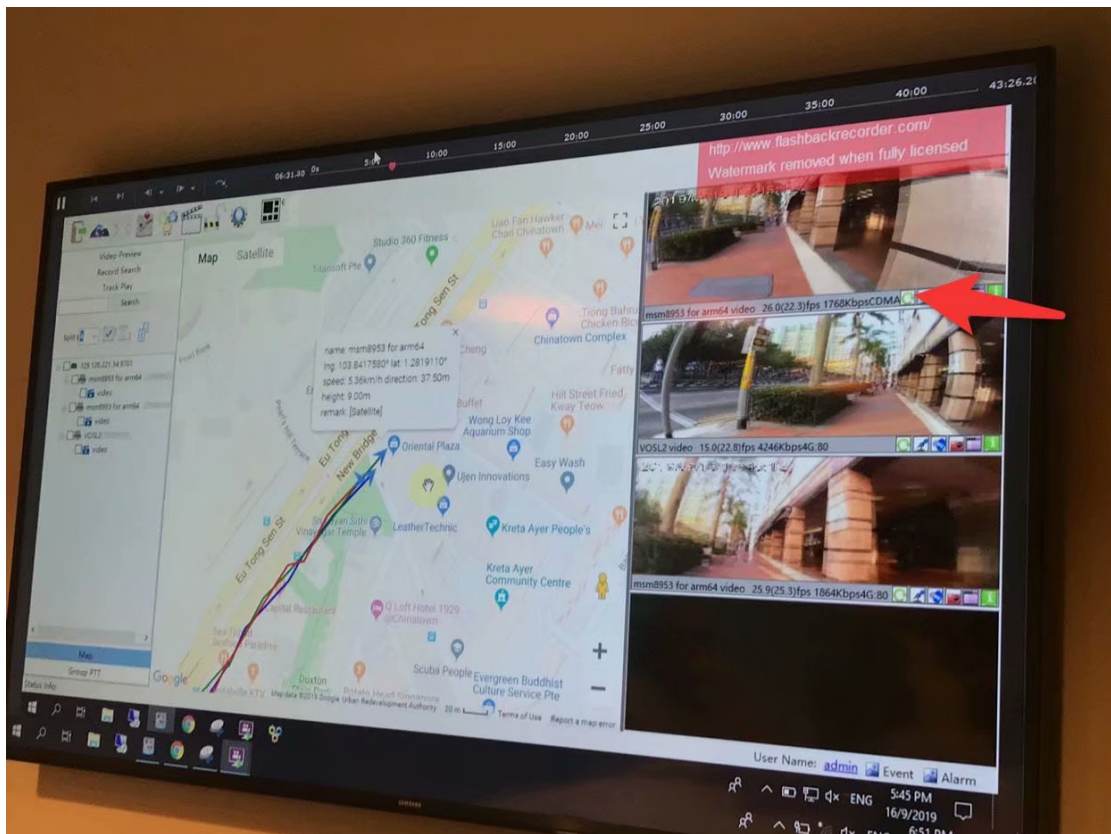


MCP can do local playback, pls refer to below chapter for “playback”.

## 2.3 GPS tracking

There are real time GPS location, tracking and history track playback.  
Set to google map, archgis is supported.





## 2.4 audio

there are below audio functions,

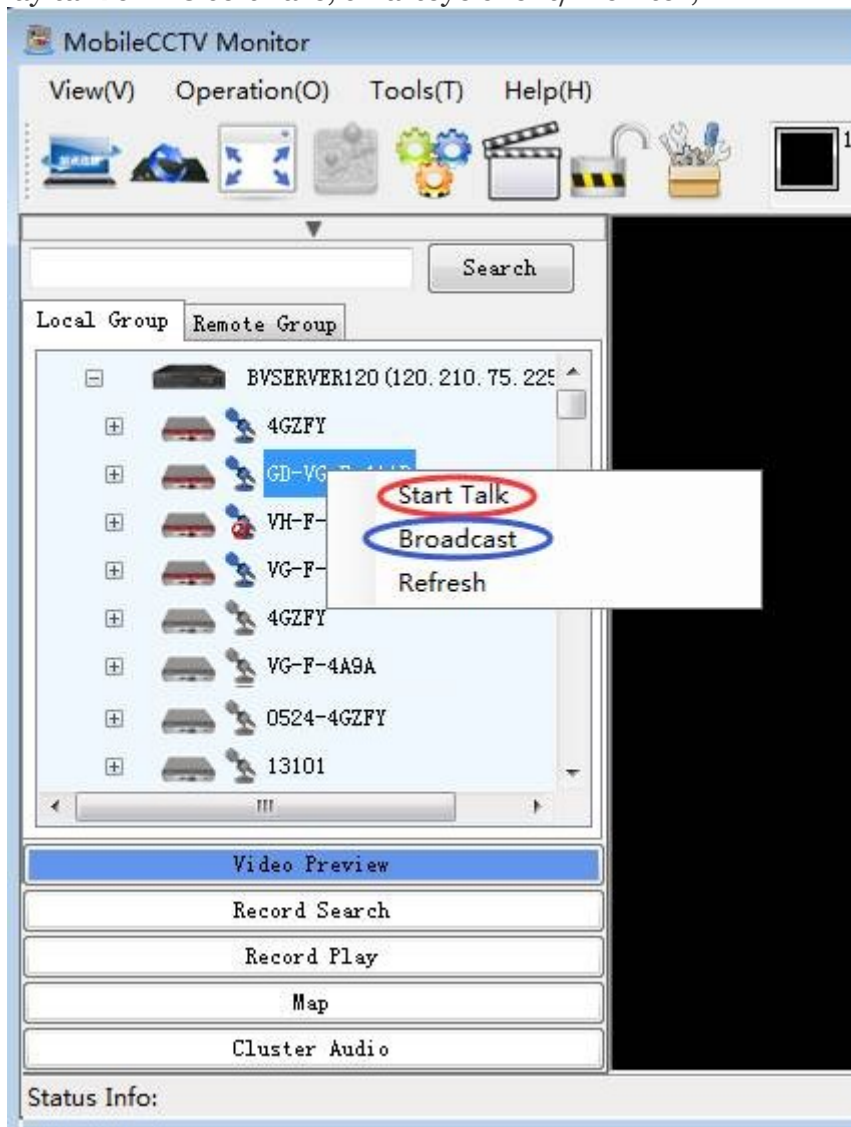
- 1) audio from device to VMS, single direction,
- 2) audio broadcast from VMS to many units, single direction,
- 3) 2-way audio between VMS and device,
- 4) group PTT among many devices and client

### 2.4.1 2-way audio

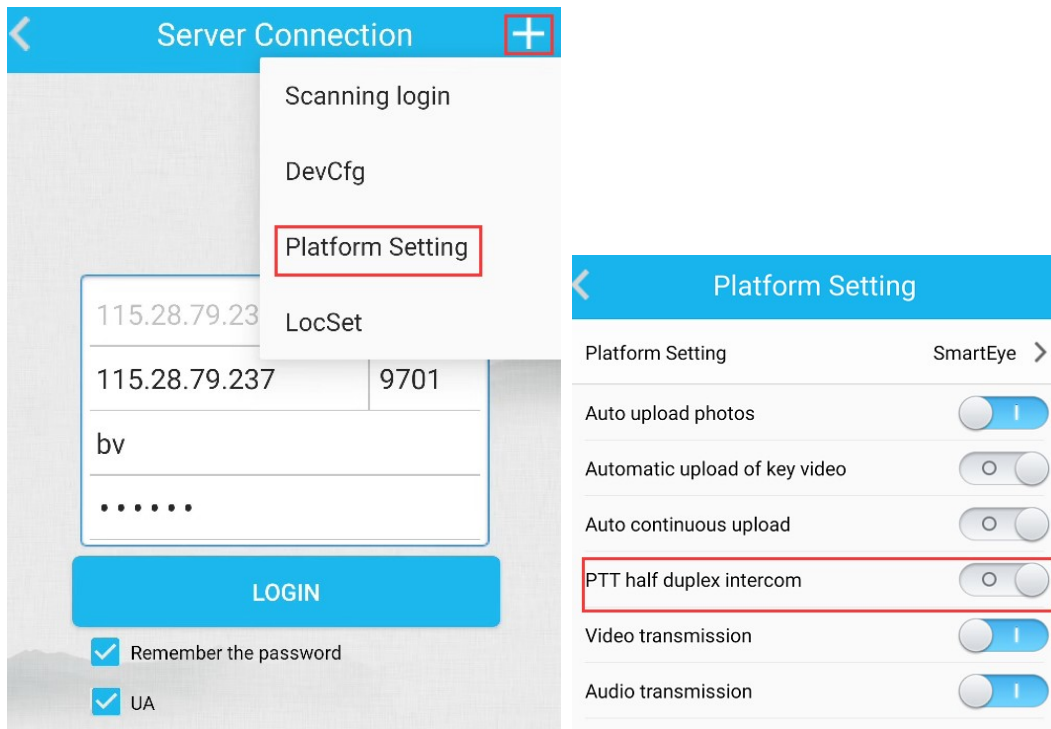
PTT is needed by default for 2-way audio between VMS/smarteye client/monitor and the camera, and Vol down key serves as the PTT key for common android phones, while for body cameras there are usually a dedicated PTT button. There is a switch option in MCP platform settings.



Start 2-way talk on PC software, smarteye client/Monitor,

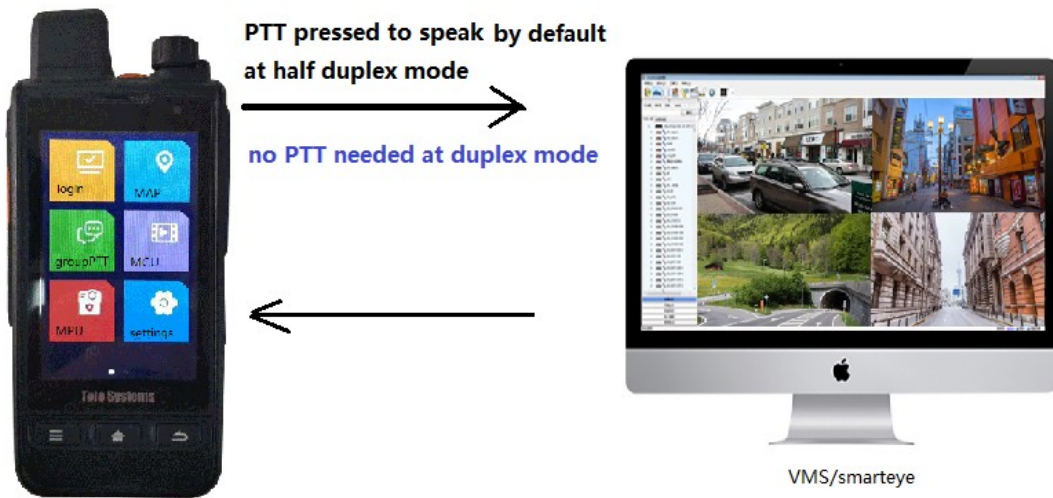


Settings in MCP,

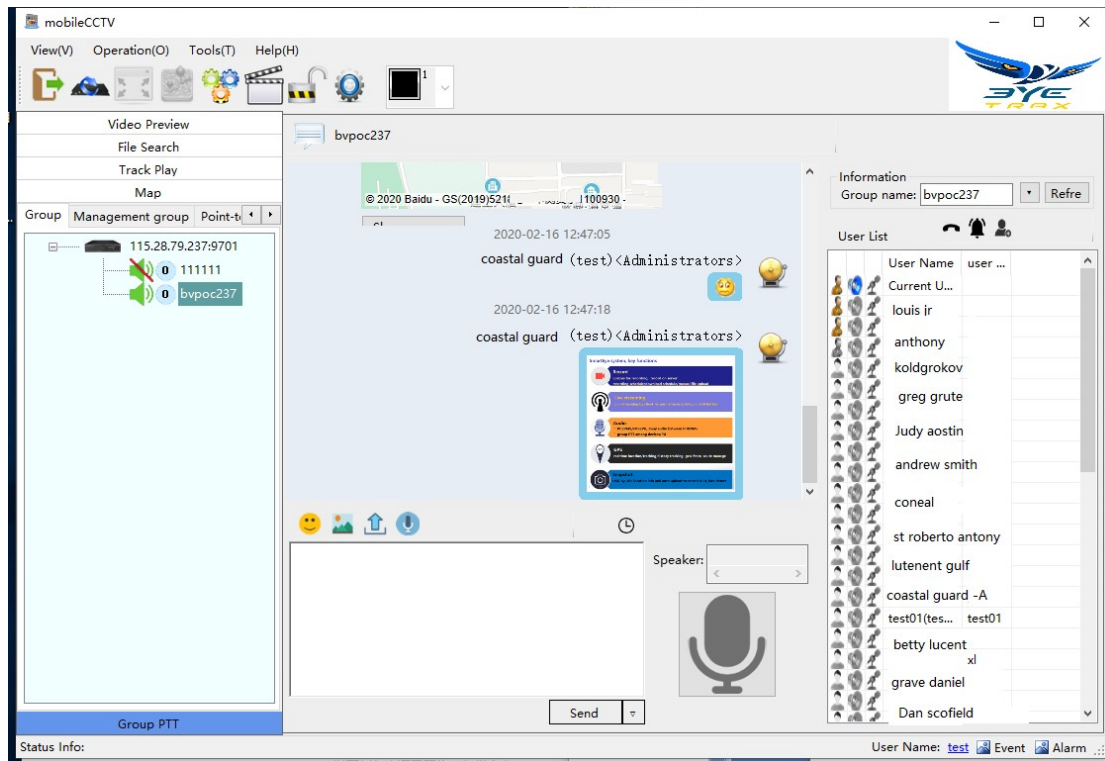


To diable this PTT half duplex option, it works in duplex mode, that means no PTT needed during the 2-way audio.

**2-way audio between VMS and MCP/camera**



**2.4.2 group PTT on PC side**



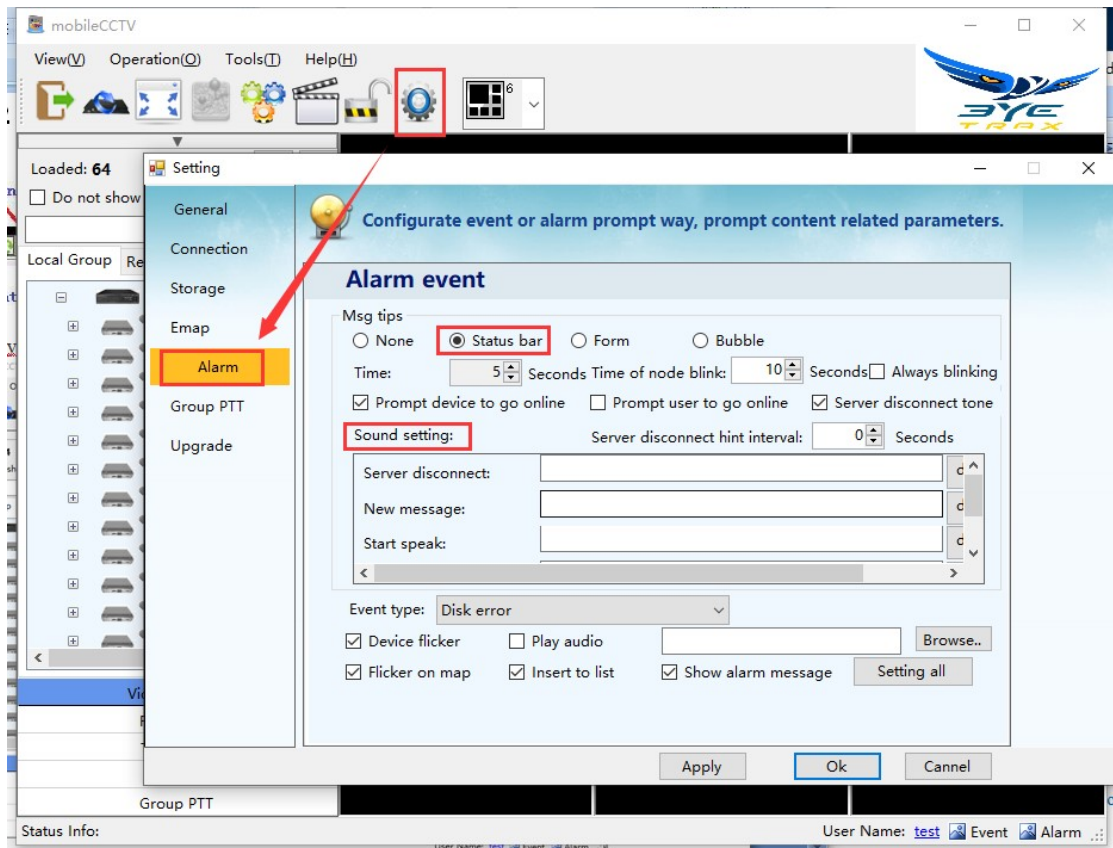
## 2.5 snapshot&upload

the camera will automatically upload the picture to the VMS soon after snapshot taken. There is a option in the settings for this operation ON/OFF.

## 2.6 alarm

SoS is a typical alarm action.

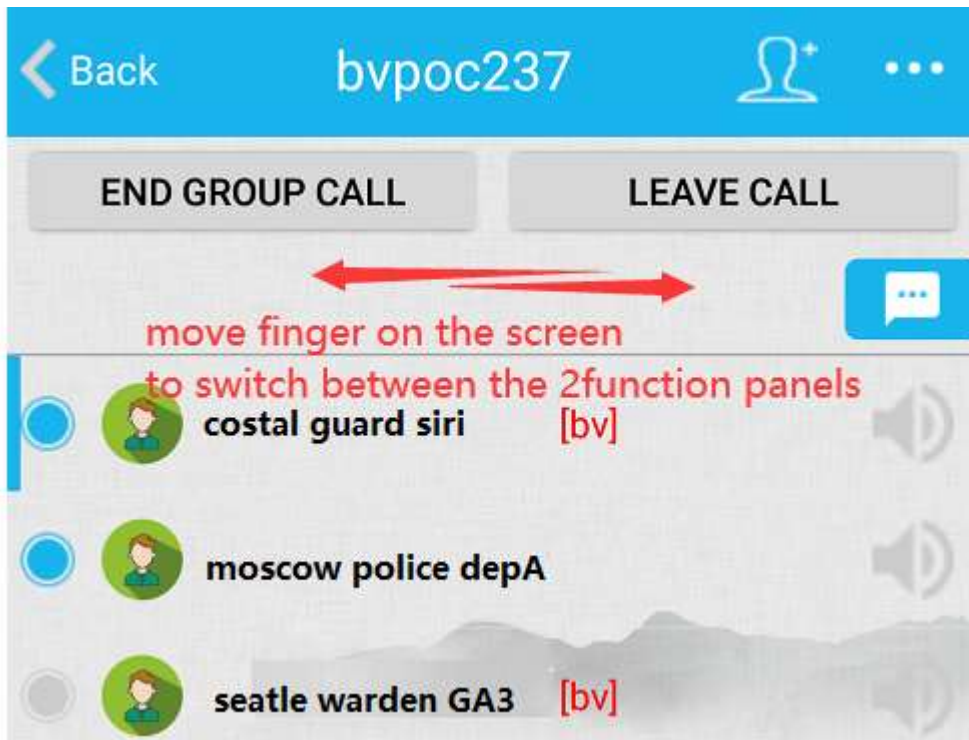
The camera will push streaming to the VMS actively when the SoS key is pressed, and live video appears in the smarteye client/monitor if any of it is on duty.



### 3 group PTT/PoC&built-in IM

there are two function panel, one is for group PTT/PoC, the other is a wechat-like IM function, to send text/audio messages, files, Expression pictures and location among contacts.

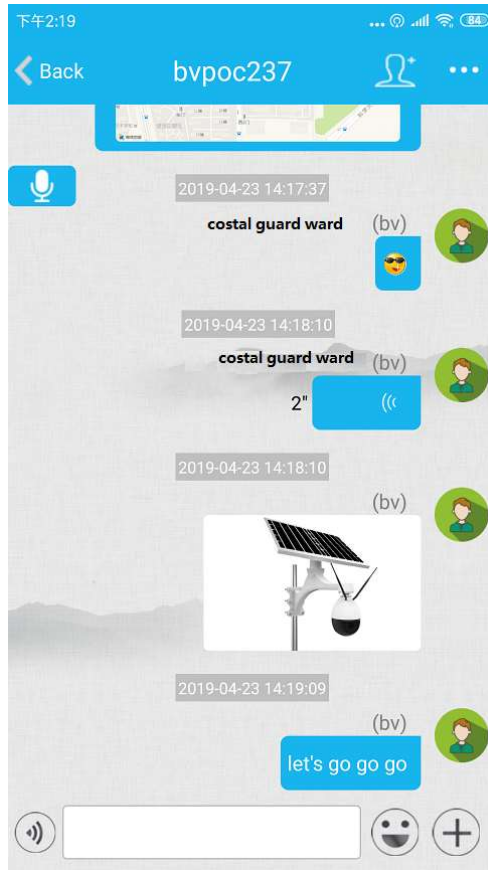
Move finger on the touch screen from right to left or vice versa to switch between these two panels.



Below is the group PTT function panel,



Below is the IM function panel,



And wechat-like video call between contacts is well supported,



## 4 mobile client,MCU function



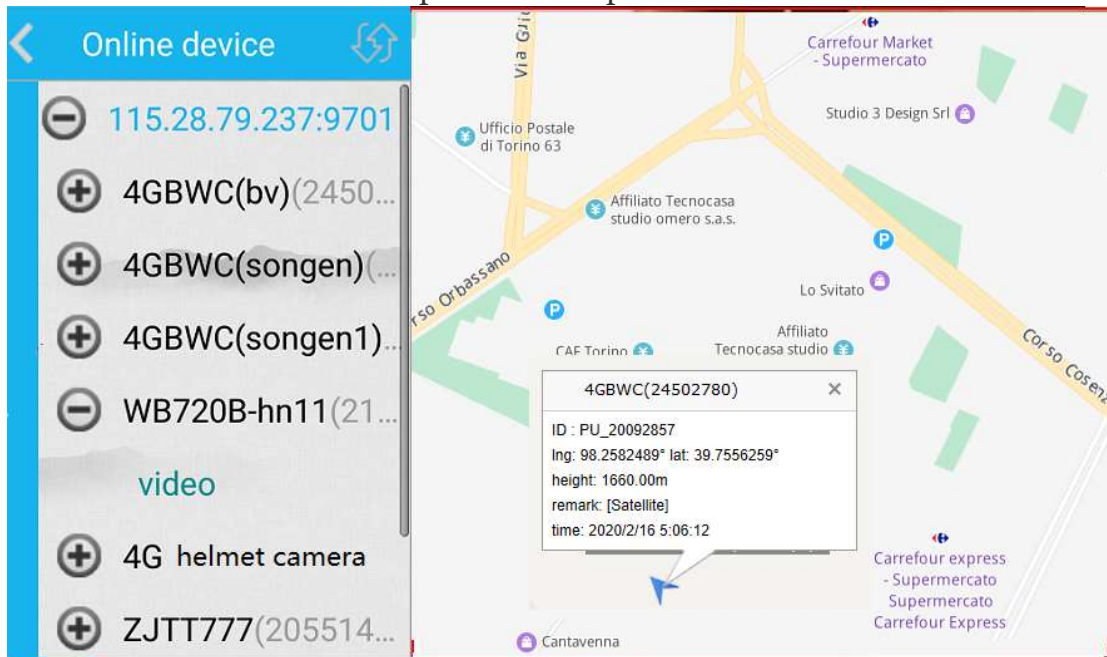
provides a mobile client function, that is to live view other units/devices.



# 5 e-map to locate other units

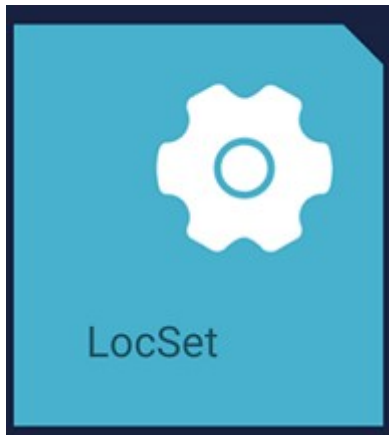


provide e-map to locate other units.





# 6 local settings

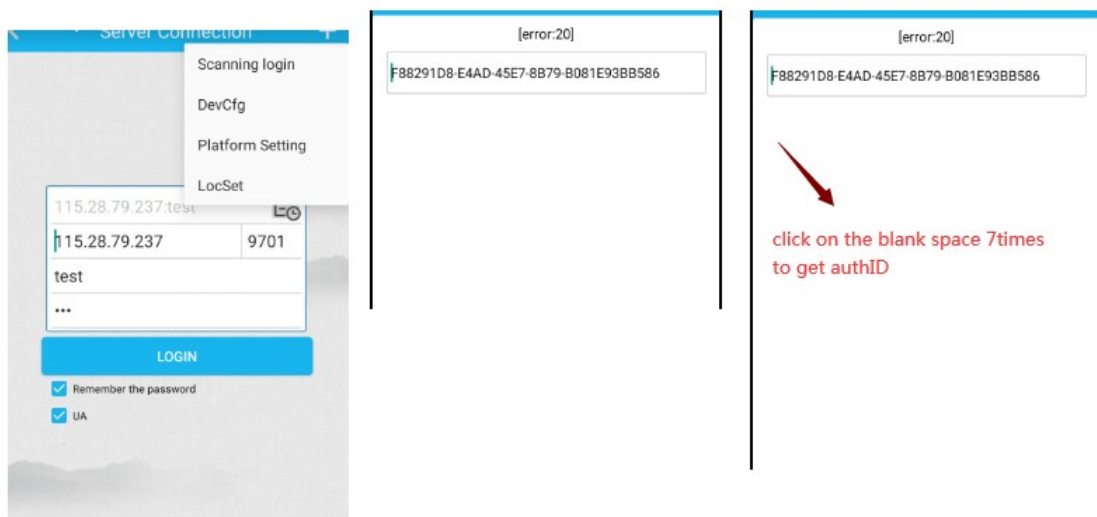


provides local settings.

## 6.1 authentication

there is two week free trial for new MCP user, and authentic needs to be done.

`get authID in MCP`



Pls note,

The camera/phone must have access to internet, better in SIM card/4G mode.

## 6.2 video resolution

this can not be modified before it disconnect from server.

Server Connection

- Scanning login
- DevCfg
- Platform Setting
- LocSet

115.28.79.23

115.28.79.237 9701

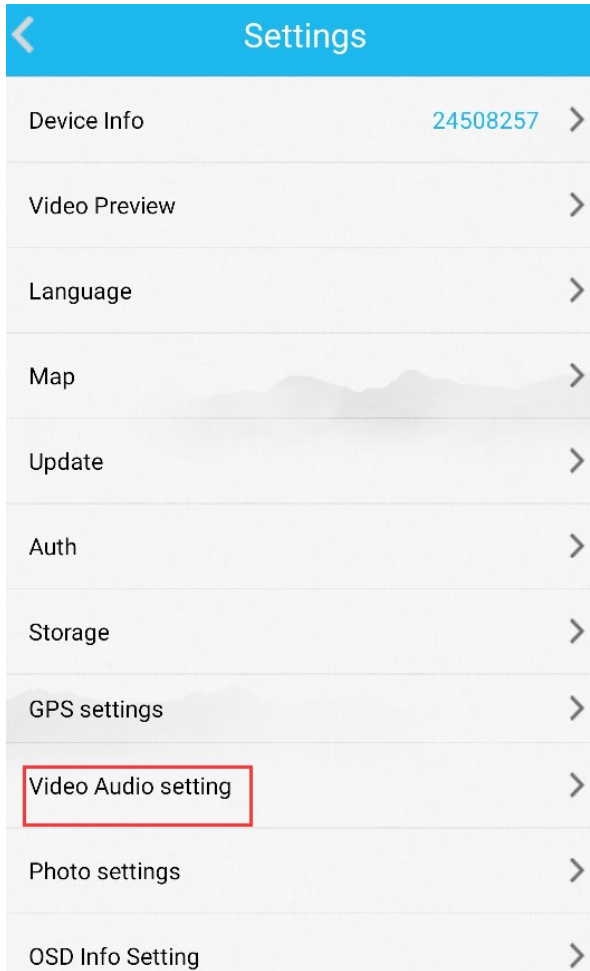
bv

•••••

**LOGIN**

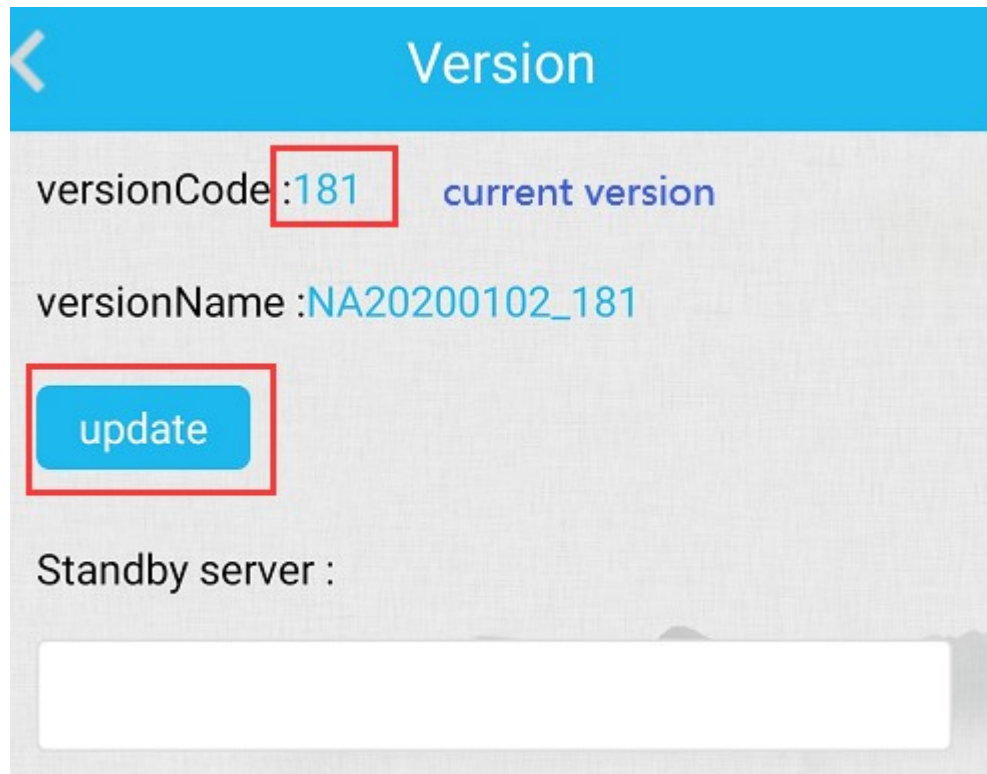
Remember the password

UA



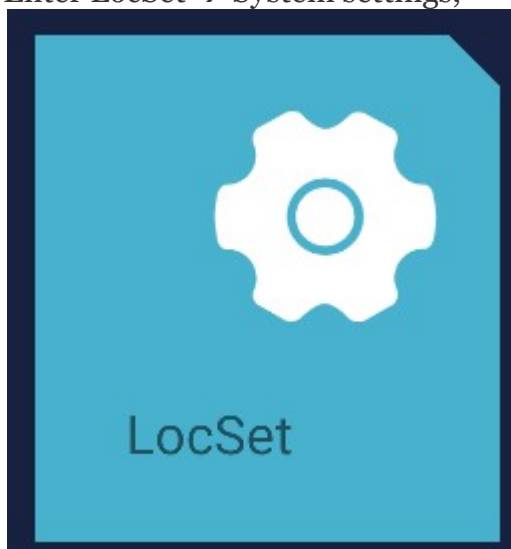
Video Audio setting	
Resolution	1280x720 >
Bitrate	1843 kbps >
Frame rate	25 >
Camera	Back camera >
Camera rotation(degree)	270 >
APM	>
Play effect	5000/500 >
Record encoder	H264 >
Transmission video encoder	H264 >
Display scale setting	Full screen >

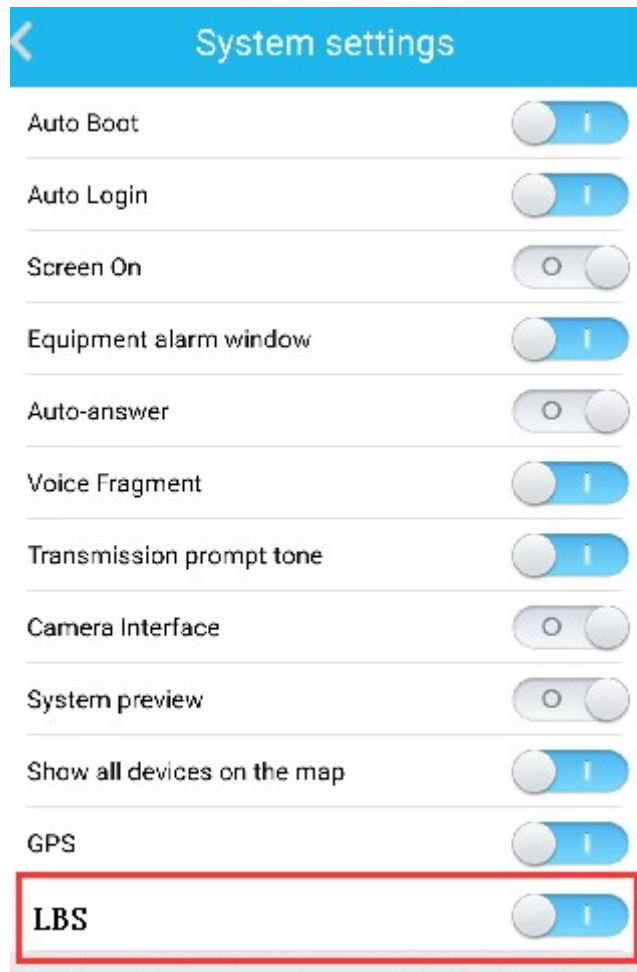
## 6.3 online upgrade



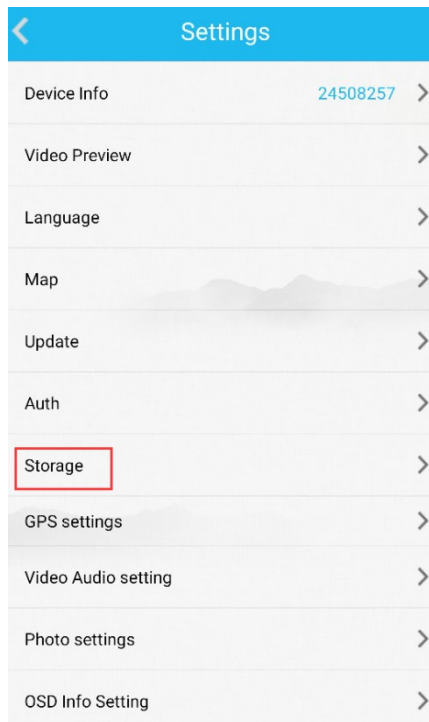
## 6.4 GPS&LBS for in/outdoor test

Enter LocSet → System settings,





## 6.5 Storage settings for recording





## Storage

Video time length(minute) :

10

how many minutes to  
create a recording file

post recorded time length(seconds):

10

Pre recorded time length(seconds):

10

Video storage path:

Built-in memory card Remain18.56G/  
Total51.49G



Video container format:

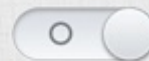


MKV

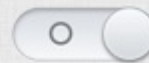


MP4

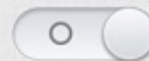
Auto record



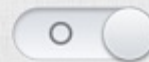
loop record



pre-record

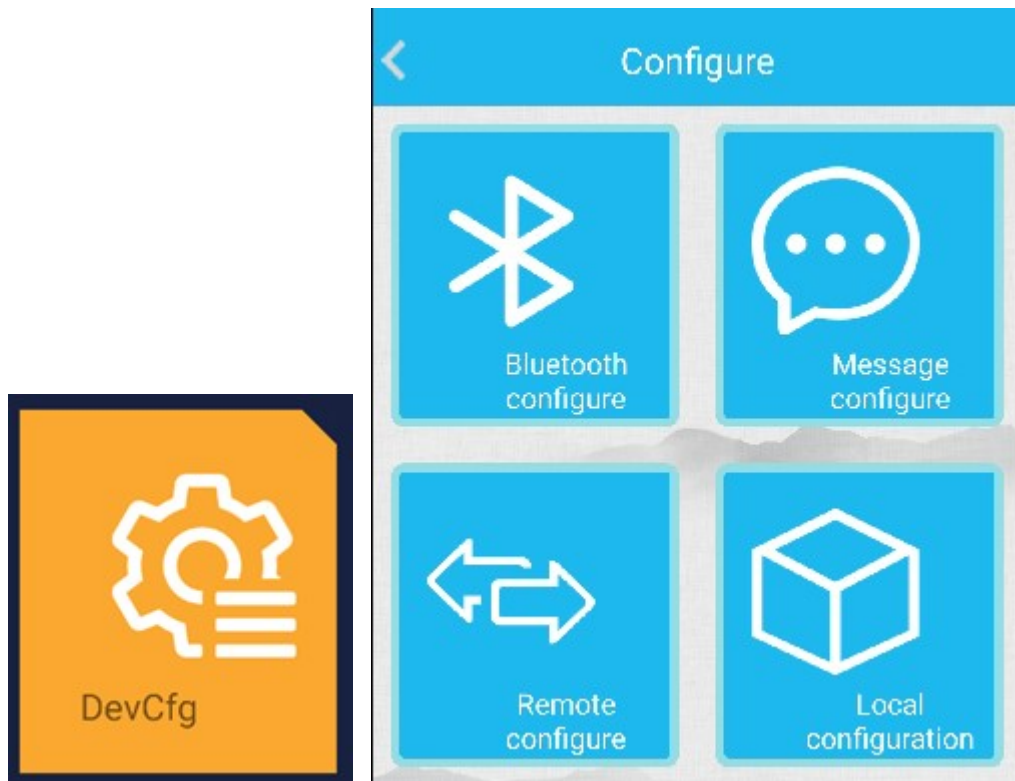


post-record





## 7 remote configuration on other devices



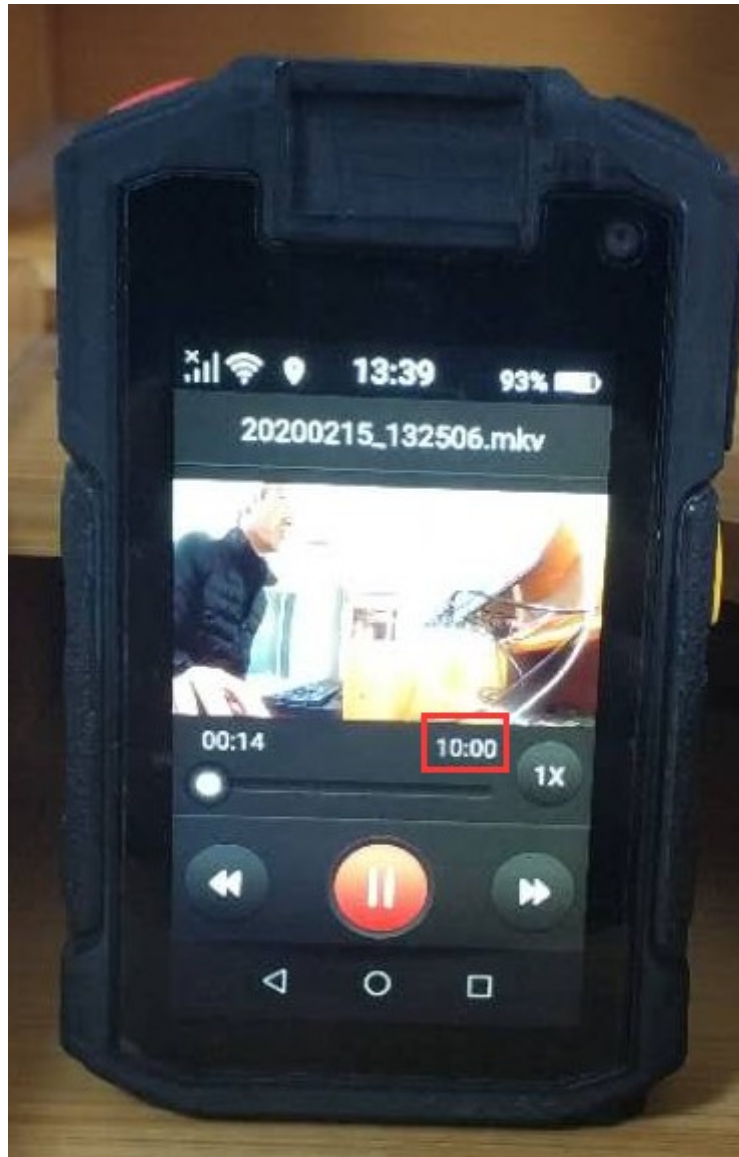
seldom used.

employed as a mobile client to do remote configuration to other units/devices, usually those embedded linux based 4G DVR/NVRs.

## 8 playback

MCP can do local playback.





## 9 manual file upload

