

Law Enforcement Bodycam 3G/4G LTE/ WiFi/GPS H.265 NFC AI BodyWorn camera

For WZ128

1 Brief

IP68 slim model, long time shooting, over 10 hrs at 1080P@25fps, octa core MTK675x, full FDD LTE frequency band (B2/4/5/7 for America) support, group PTT/PoC, NFC, 3.1" LCD android 4G body camera, BC310, full AI powered, face recognition, LPR etc.

<http://en.besovideo.com/product/83.html>

Terms,

The body worn camera, or brief to BWC, or called as the device, the unit.

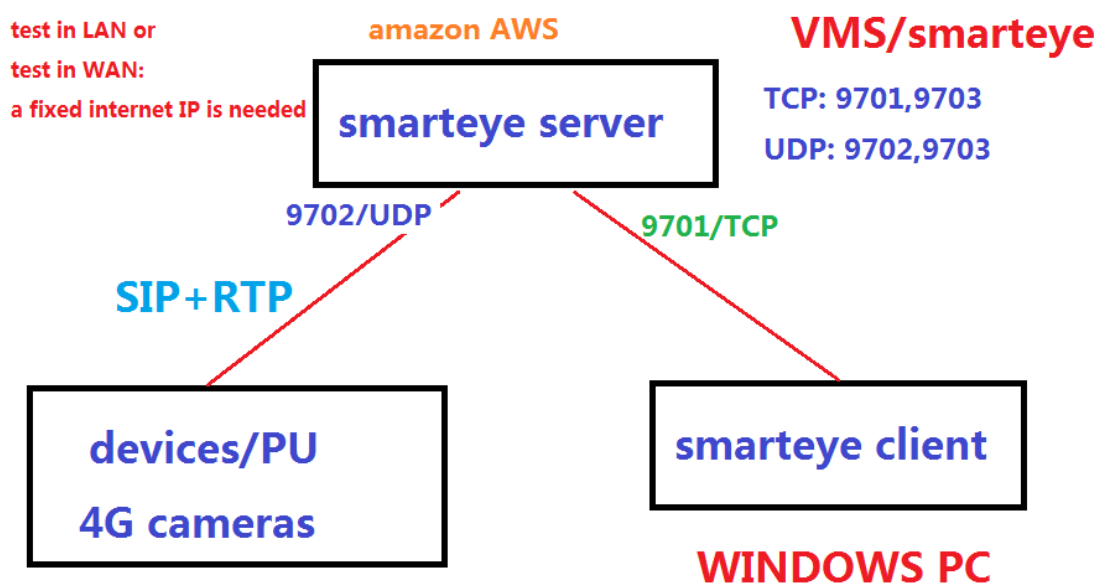
2 SPECIFICATIONS

Model: BC310, 4G LTE model

Item	Description
System	Built on MTK octa(8) core chipset@2.0GHz, Android 8.1, 2GB RAM
Durability	Drop resistance 3m, -20°C~60°C
Protection	GB4208-2008 IP68
Display	3.1 inch TFT LCD(480x800), capacitive touch screen
View angle	Wide view angle with distortion correction, horizontal angle >120
camera	16MP 1/3' CMOS, 1920*1080,135 degree FOV
Video encoder	Max: 1920×1080@30fps
Recording format	.mkv
Snapshot	Max: 16MP, JPG file, 4608*3456
Shutter	Electrical shutter
Night vision	Auto switch, IRCUT, Infra-red >10m High power LED, aluminum plate cooling Laser positioning
Position	Built-in GPS/BEIDOU/ GLONASS
Networking	4G FDD/TDD LET, 5-mode, WCDMA/TD-SCDMA 2G/GSM (Band2/3/5/8) TD-SCDMA(Band34/39) WCDMA (Band1/2/5) LTE-TDD(Band38/39/40/41) LTE-FDD(Bnad1/2/3/4/7) EVDO(BCo)
	Built-in wifi, 802.11b/g/n/ac
	Remote live view/monitoring via wireless network,managed by large scale networking VMS software/Smarteye.
NFC	yes
Compass	Built-in compass
Data connection	Mini USB 2.0, BT4.0
Charger	DC 5V, 1000mA adapter, USB cable
Battery	li-battery, 3250mAh (4.35V),hot swap
Storage	32GBbuilt-in ROM/FLASH,2GB DDR3 RAM

dimension	102mm(L)×63mm(W)×18mm(H)
Weight	177g,IP68

3 System Networking



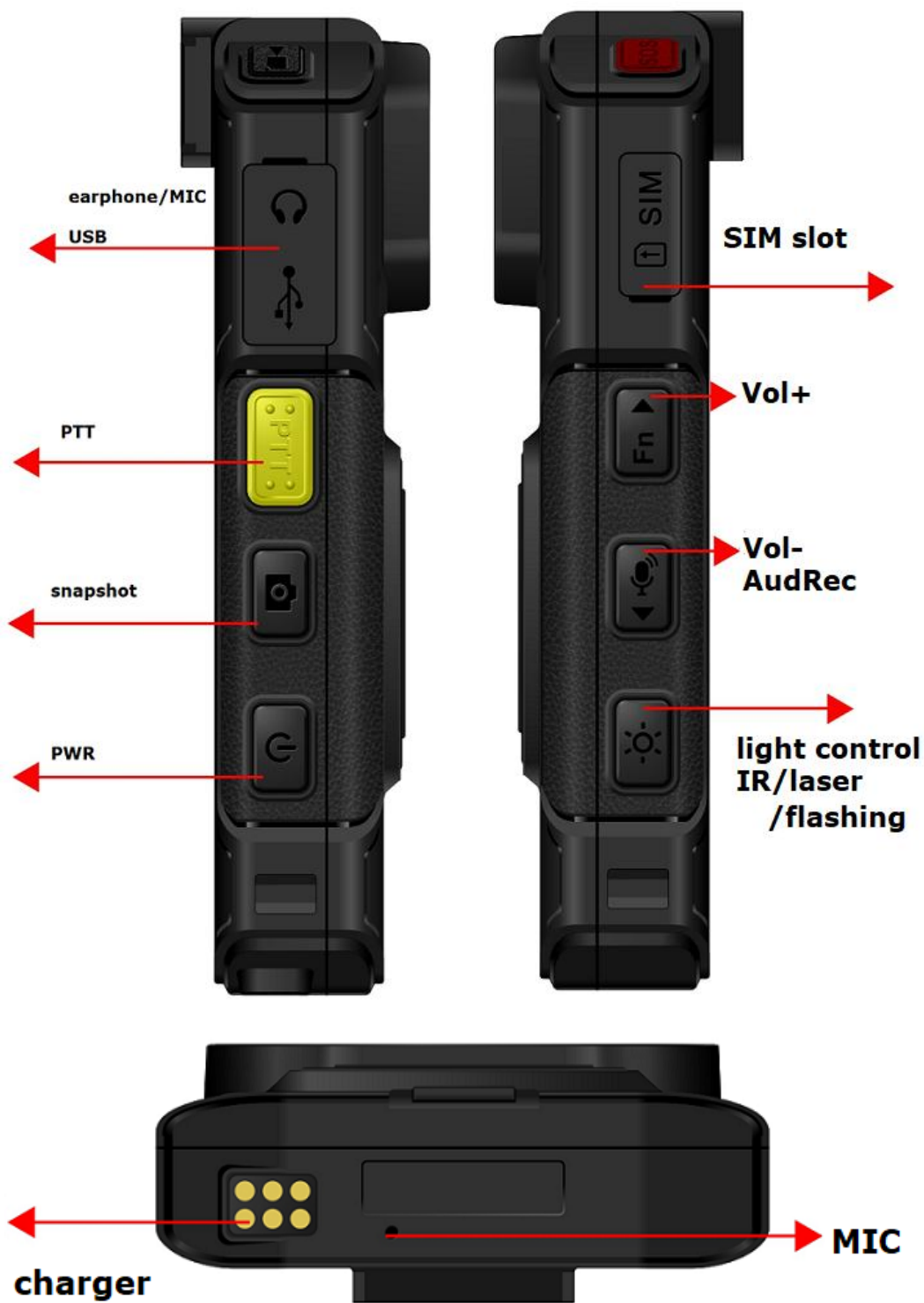
4 Hardware Description

4.1 Brief





Mcam: FF(OV4689) 2-3m,
2ndCam, 13MP, AF, Macro lens
3rdCam, 5MP FF



4.2 buttons

- 1) Power/return, long time press to power up/off, press to turn ON/OFF the screen

- 2) REC, press to start/stop recording, pls note, the big round button in the front panel is also defined to be a REC key for now
- 3) snapshot,press to do snapshot and upload
- 4) LIGHT control, press to enable/disable IR light,
- 5) PTT press to talk in 2-way talking or group PTT talking
- 6)



4.3 MICs&speaker

Built-in MIC*3,



External earphone&MIC supported,



4.4 LEDs



This status LED

1) Turn red&slow blink at recording, turn green when recording stopped

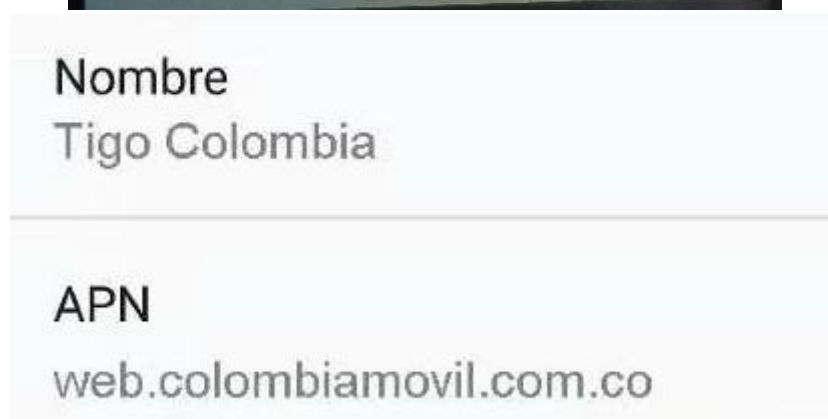
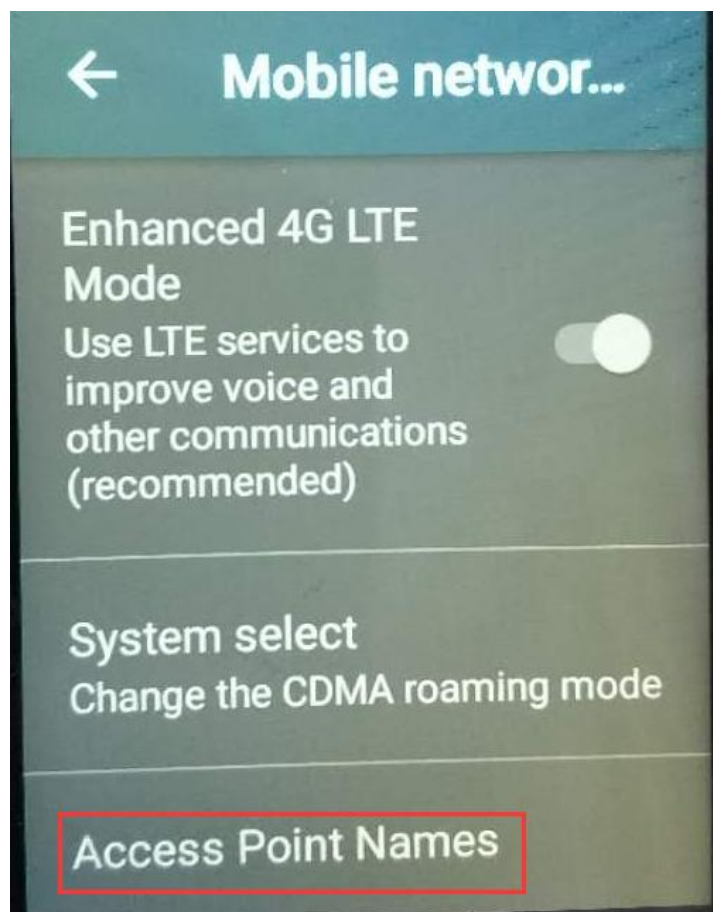
2)

Red LED blinking for recording indicator,

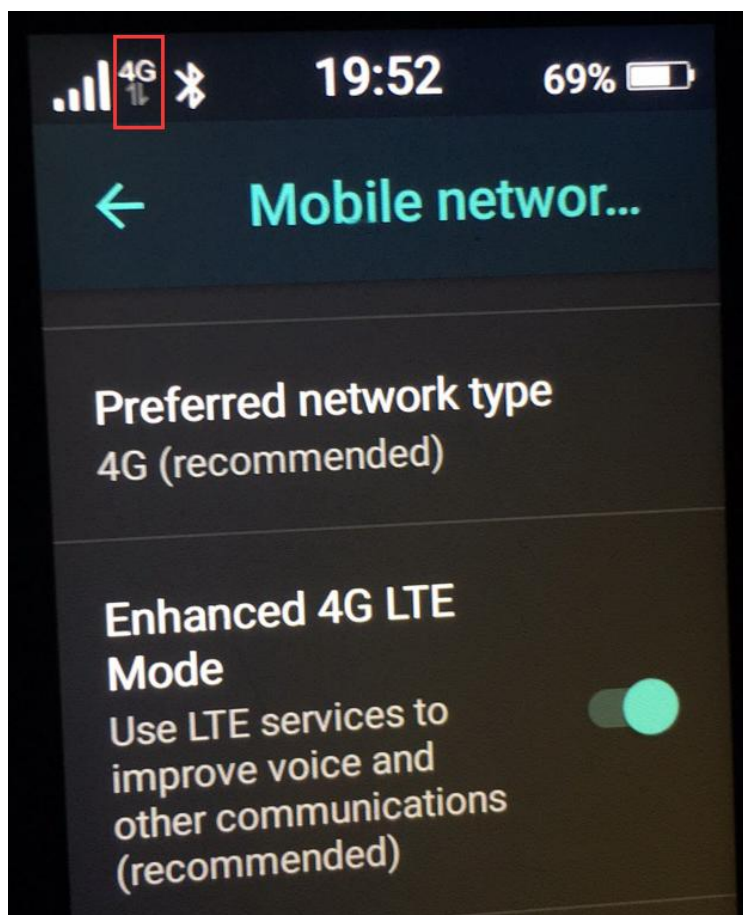


5 APN&cell network

Valid only after a SIM card inserted,

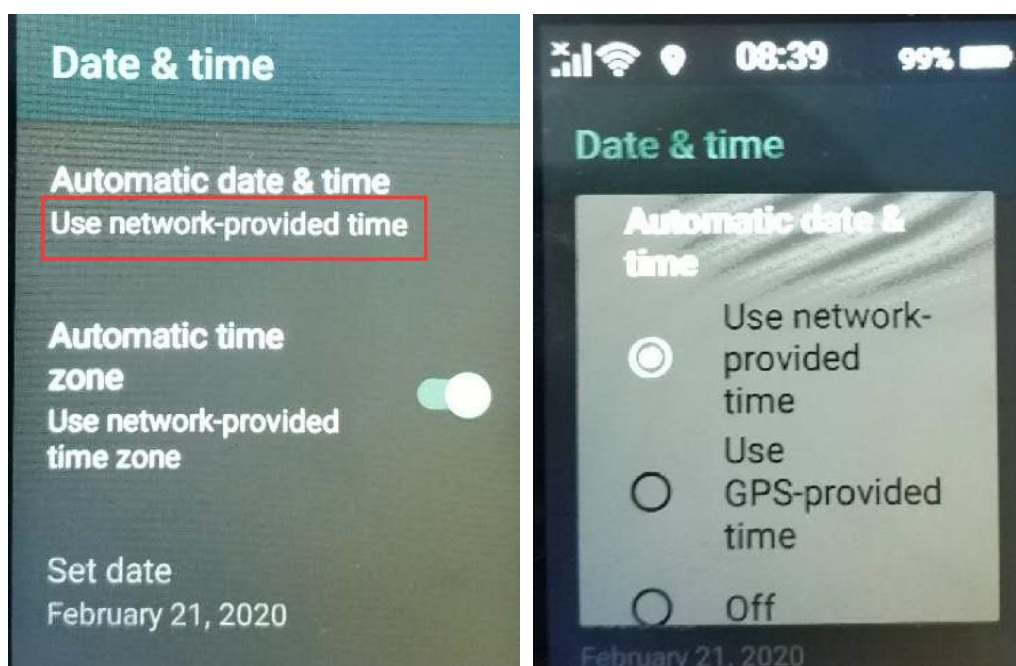
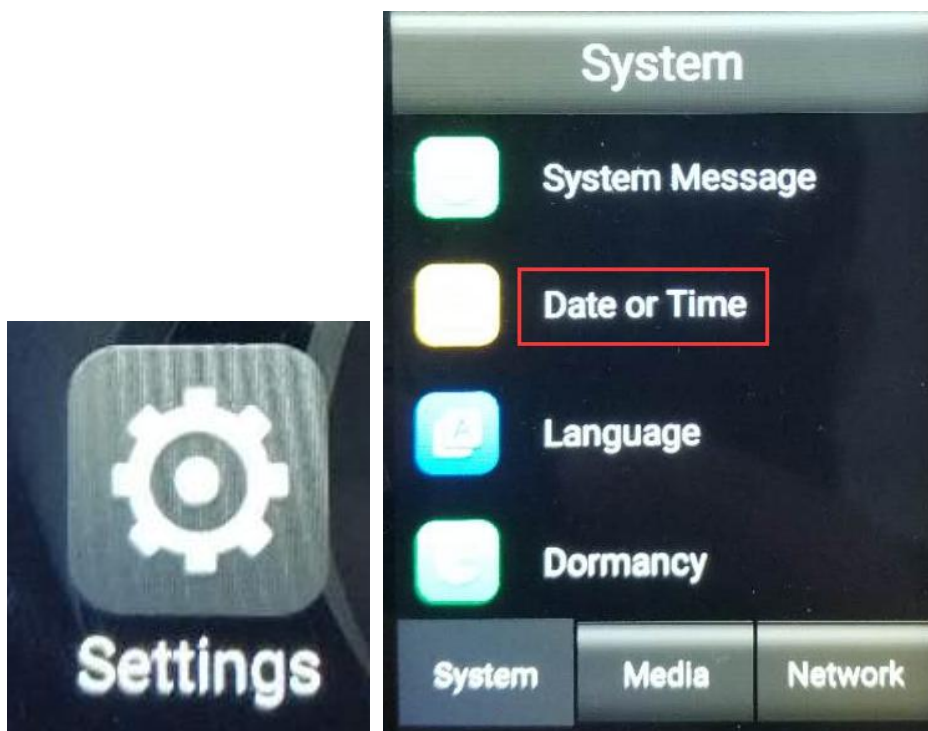


The 4G indicator appears when APN set with SIM card,



6 System time

NTP by default, so internet access is necessary at first use.



7 MCP Software how-to

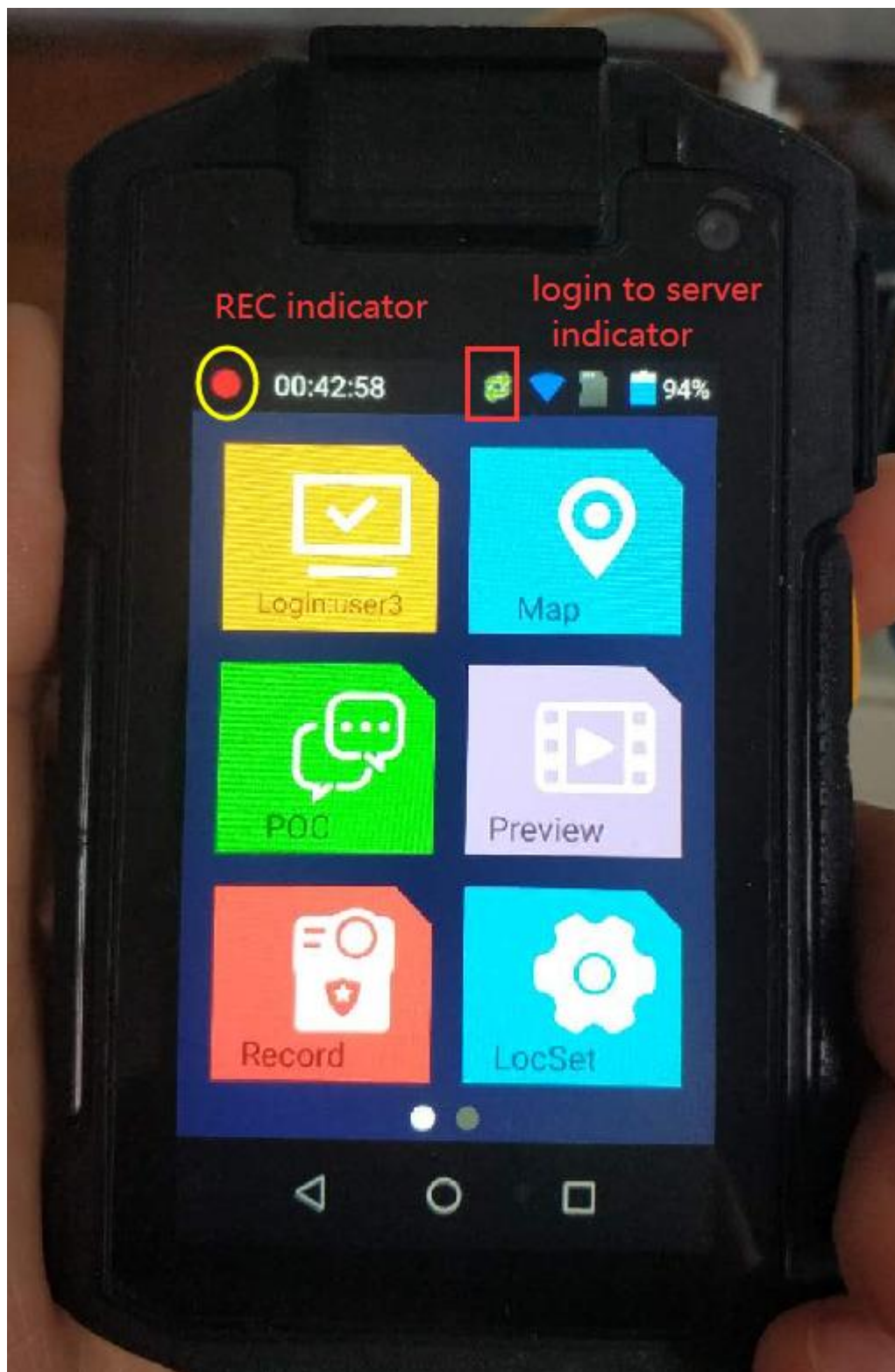
An APP by name of MCP works as the main program in this android system



based body camera,

it 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



pls refer to “MCP user manual” for details.

8 Work with VMS/smarteYE

test MCP with smarteYE server in China

on android phone, MCP

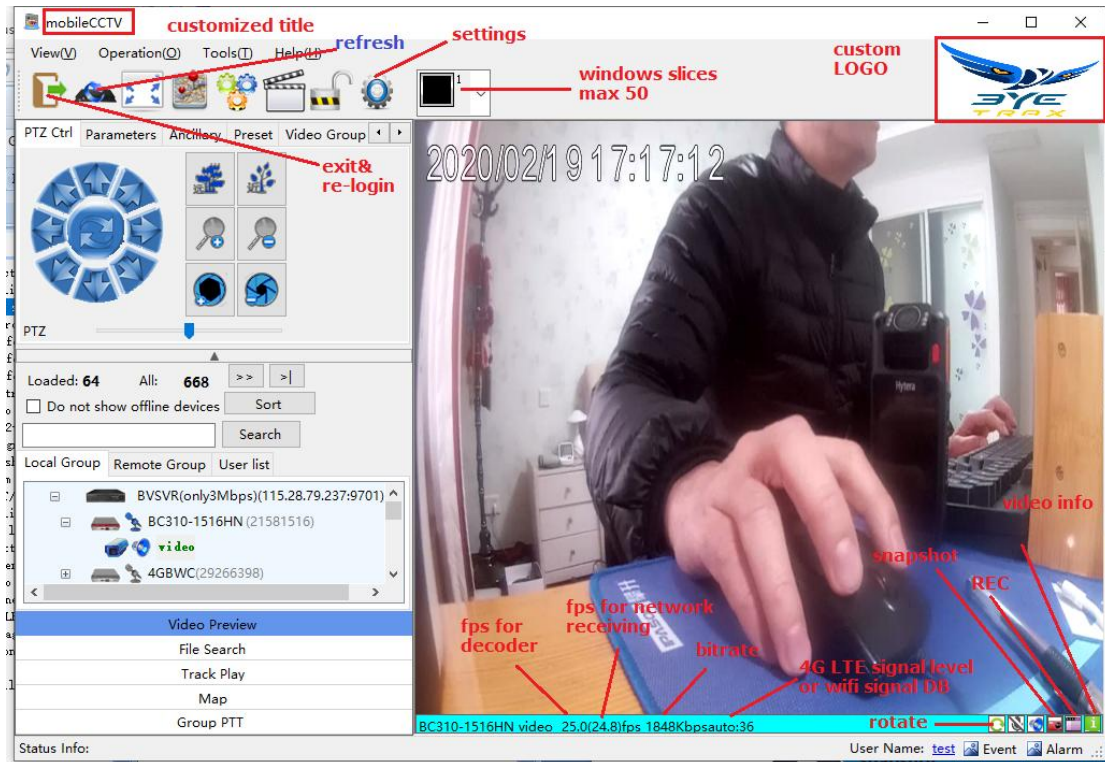


on windows PC smarteYE client

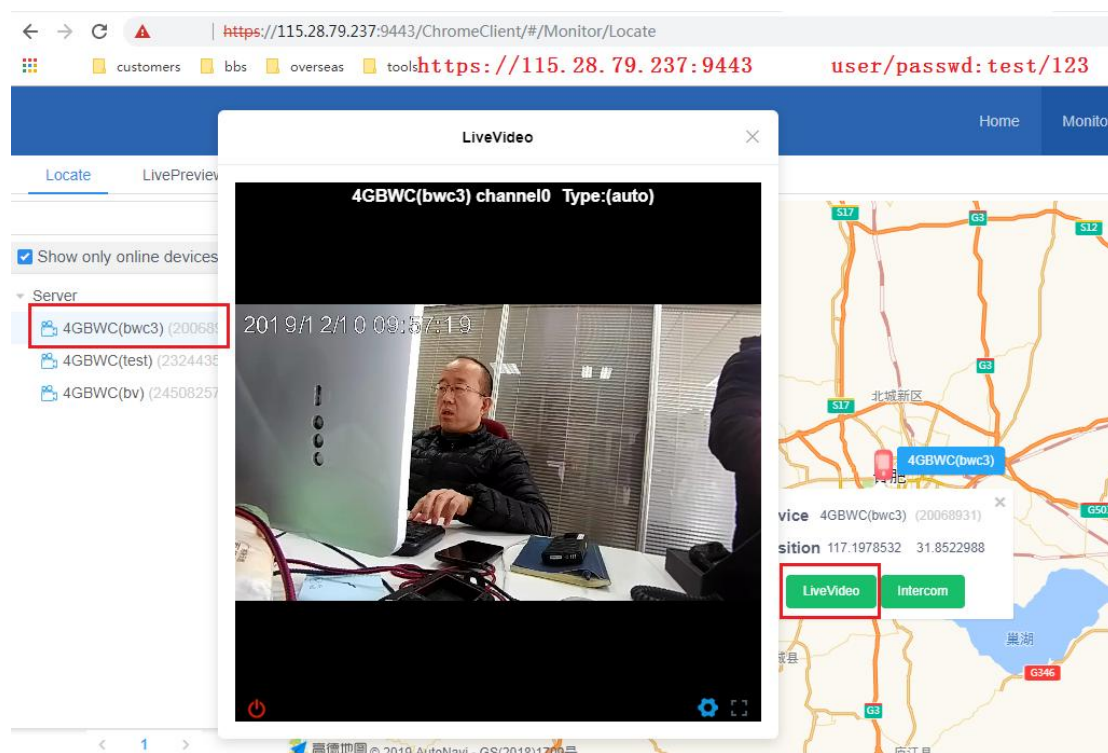


MCP can work as a 4G camera, and also as a mobile client to live view other cameras, together with group PTT/PoC

C/S client software,



WEB software,



VoD by client vs SoS to VMS,

4G body camera BC310+MCP cooperates with VMS/smarteYE,

<https://youtu.be/aeF7qp4XyCg>

4G body camera SOS push stream to VMS smarteYE,

<https://youtu.be/w5d-94rtx4s>

9 Face recognition

Face recognition&matching can be done on both the front-end(the device/camera) and the back-end(VMS side).

9.1 Work on front-end

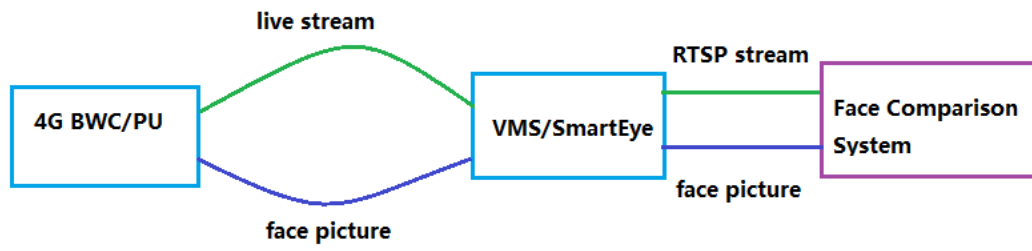
Pls note, 2-3m focus.



9.2 Work on back-end

The camera detects face, isolate the face picture and upload to VMS to do face matching, or give RTSP live streaming to 3rd party face matching algorithm software.

Both are supported, success stories include senseTime, face++,XRVision etc.



10 LPR

Only valid for Chinese plate.