

Smart Phone Type DVR with
Button Camera
Model:PDV-900BU

User Manual

Specification

BODY

Width 75.5mm

Height 153.6mm

Thickness 7.9mm

Weight 168g

Battery 3600mAh (typical value)

Capacity 4GB + 64GB

DISPLAY

Size 5.99-inch

Resolution 2160 x 1080

Contrast ratio 1500 : 1

PPI 403

Brightness 450cd/m² (typical value)

Manufacturing technique In-Cell full lamination

PLATFORM

OS Android 7.0 (Nougat)

Qualcomm® Snapdragon™ 632 high-performance mobile platform

14 nm FinFet process with low power consumption

Main frequency up to 1.8 GHz

Adreno™ 506 GPU

Standard 4 GB RAM

MEMORY

Card slot microSD, up to 256 GB (dedicated slot)- Dual-SIM model

Internal 64 GB, 4 GB RAM or 128 GB, 6 GB RAM

Extended Hidden Button Camera

1080p@30fps, 1/4 CMOS, FOV: 68 degree, Size: 15x15x18mm

SOUND

Alert types Vibration; MP3, WAV ringtones

Loudspeaker Yes 3.5mm jack Yes 32-bit/384kHz

audio - Active noise cancellation with dedicated mic

COMMS

WLAN Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot

Bluetooth 4.2, A2DP, LE, aptX

GPS Yes, with A-GPS, GLONASS, BDS, GALILEO

NFC Yes

Radio No

USB 3.1, Type-C 1.0 reversible connector

BATTERY Non-removable Li-Ion 3600 mAh battery

NETWORK

GSM : B2/B3/B5/B8

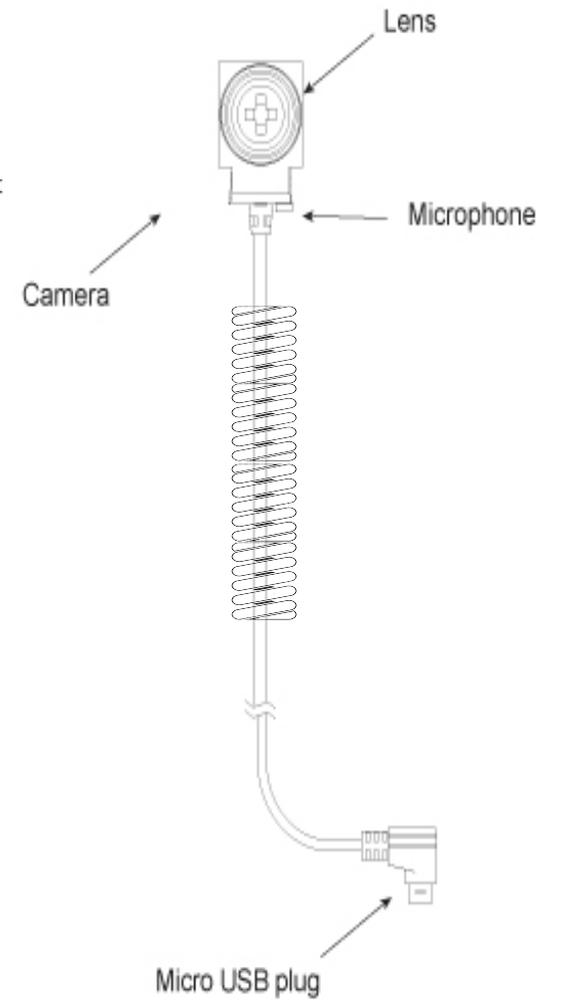
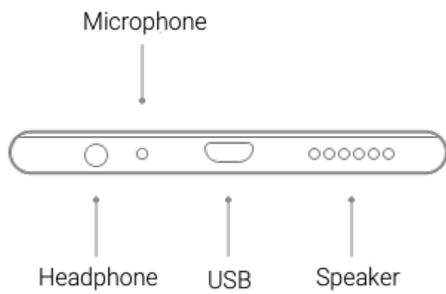
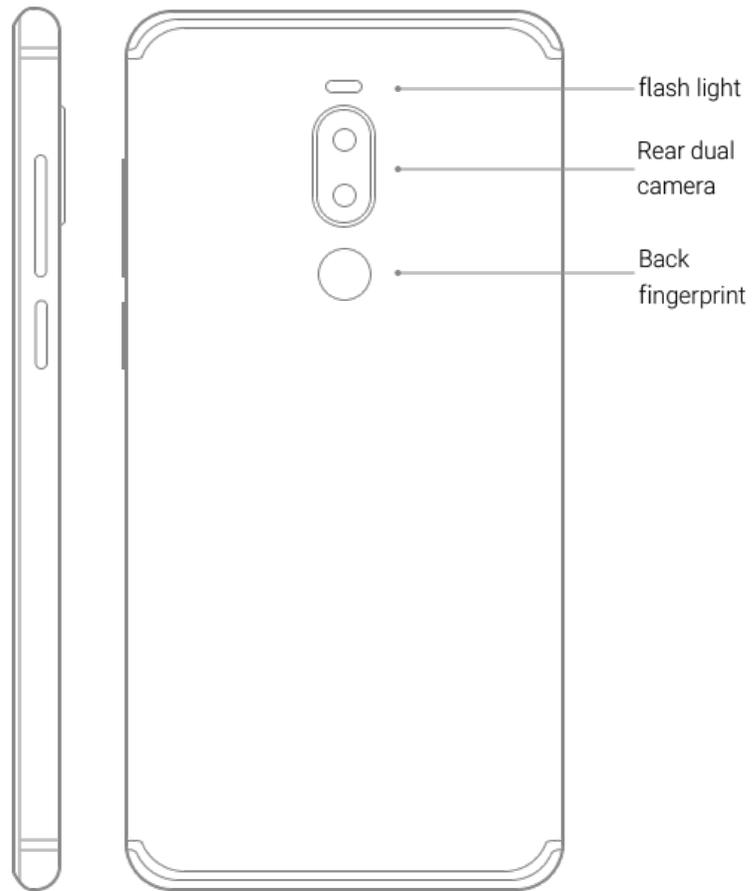
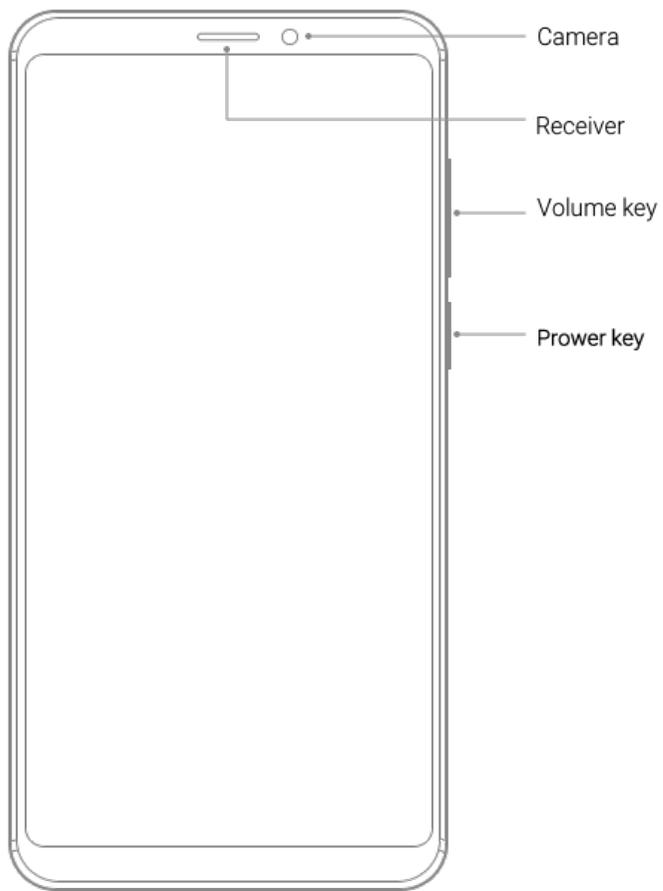
WCDMA : B1/B2/B4/B5/B8

TD-SCDMA : B34/B39

CDMA : BC0

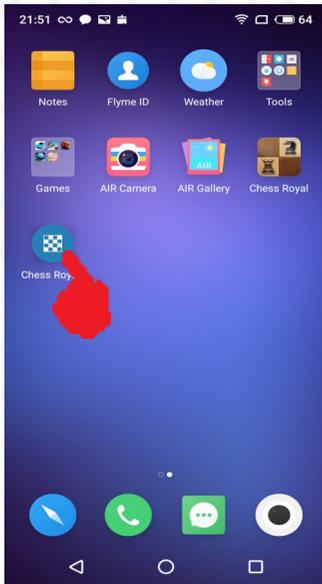
TD-LTE : B40

FDD-LTE : B1/B2/B3/B4/B5/B7/B8/B20

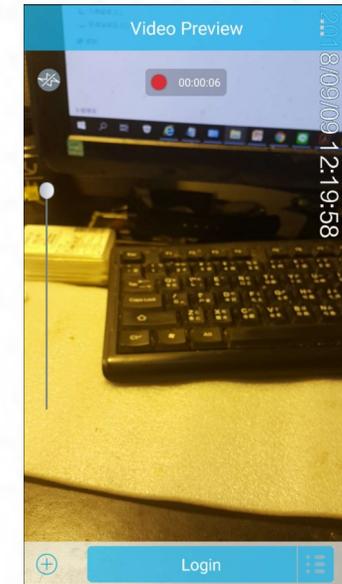
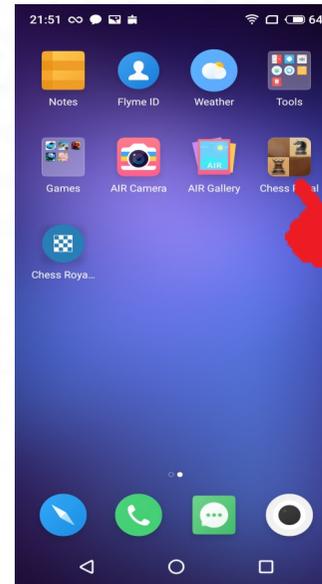


Quick Step 1 How to Record

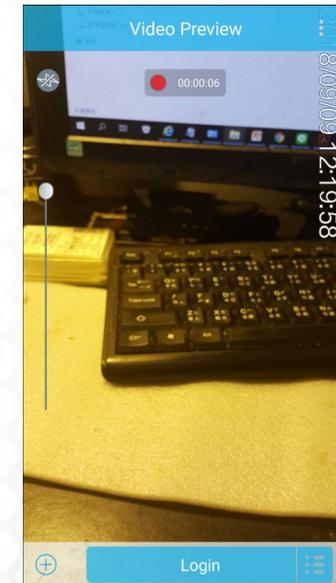
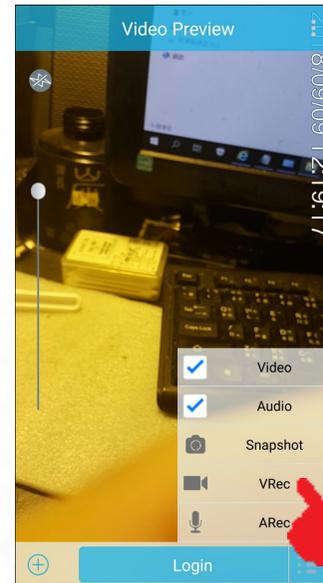
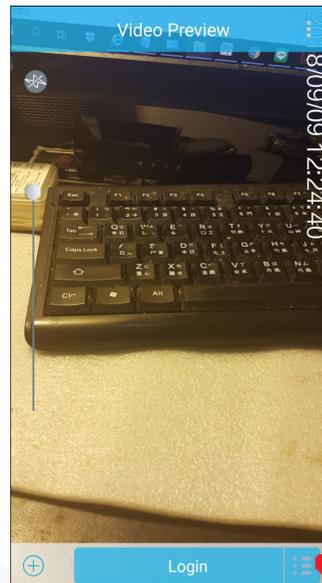
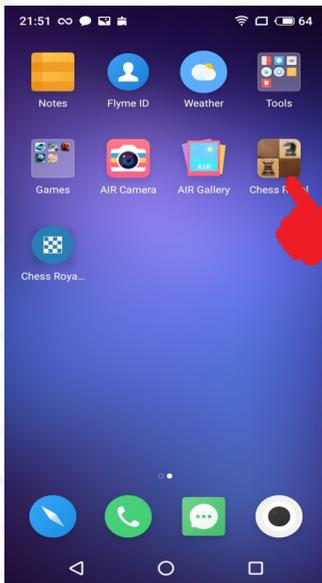
🕒 Quick Mode: Quick start/stop record



🕒 Auto Mode: Has to open this feature on setting

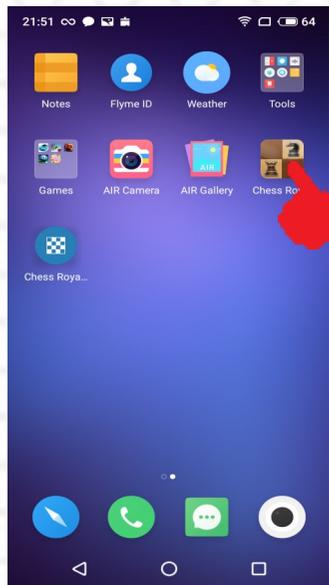


🕒 Manual Mode



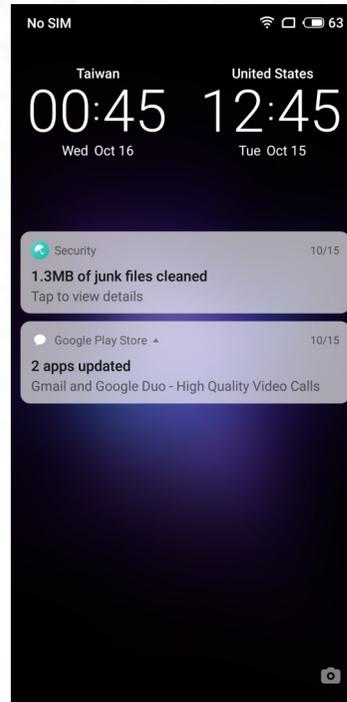
Quick Step 1 How to Record

Hotkey instant mode

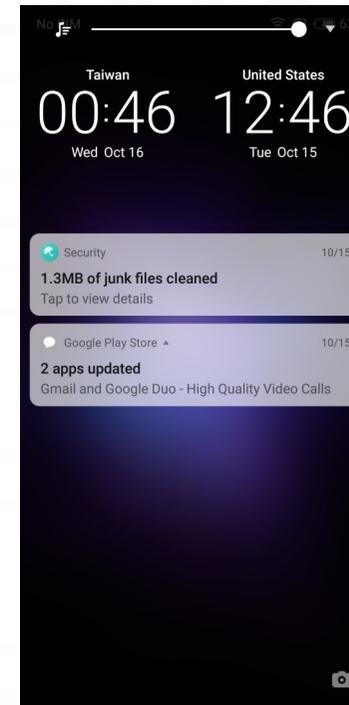


Run the APP Standby

(Put it on the back)

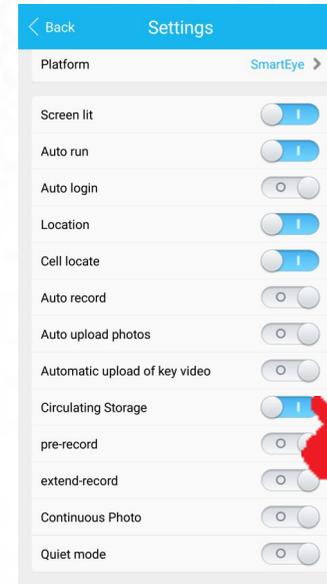
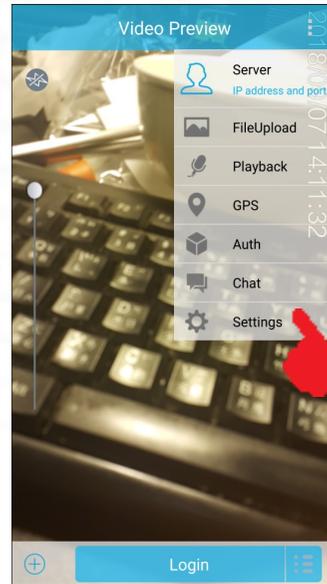
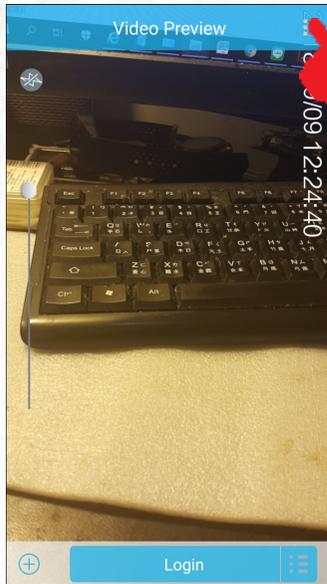


When screenlock just push the power button on the side once to wake up the screen



Then push the volume+ button to start record; volume - button to stop record. (it may switch to the silent mode for the vibrate alert)

How to Switch the auto & manual Modes



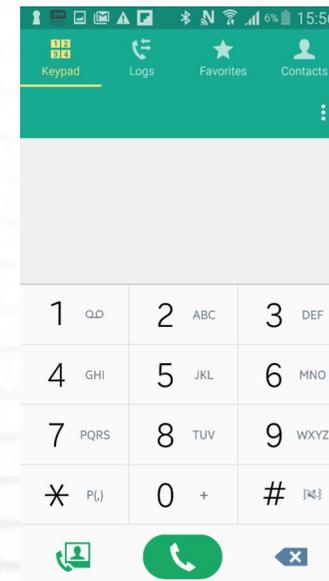
You can do anything on the phone as normal during recording



Play any other APP



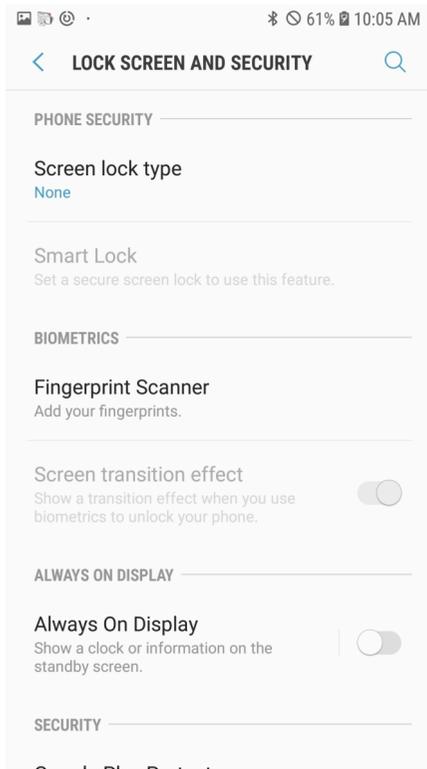
Lock the Screen



Taking a phone call

Quick Step 2 How to Record use Volume key

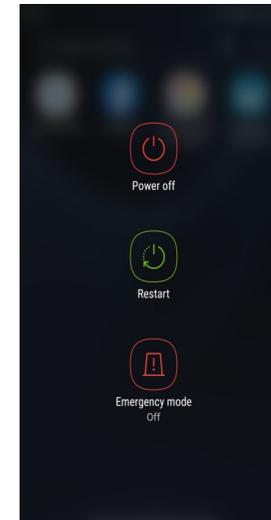
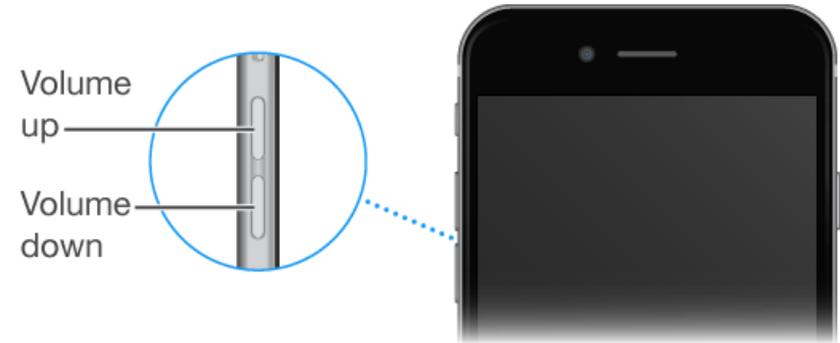
🕒 Hotkey instant mode



Before that make sure to disable the screen lock (to none) in the setup for better execution this concealed feature



Run the Chess Royal APP on Standby (Put it on the back)



When the phone is lock push the power button once to wake up the phone then hold the power button 2 sec till power off page come out then push the volume+ button twice to start record; the volume - button to stop record, it may respond one vibration alert for start record and 2 for stop to confirm the action every time.

Quick Step 3 How to Record by Headset Volume button



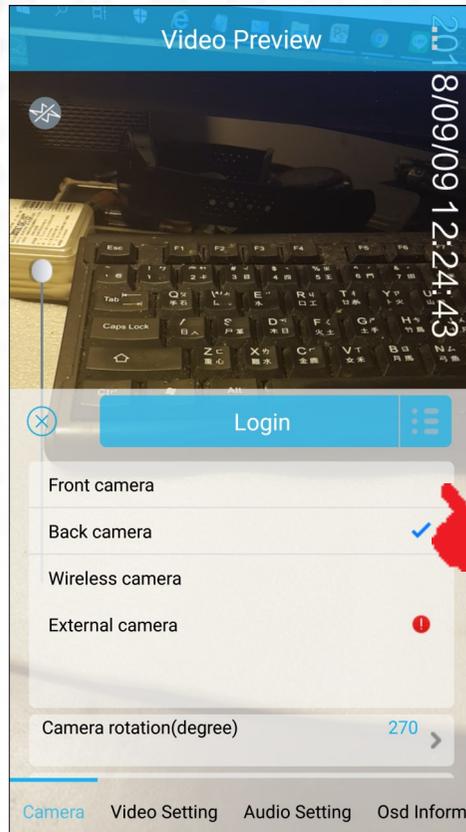
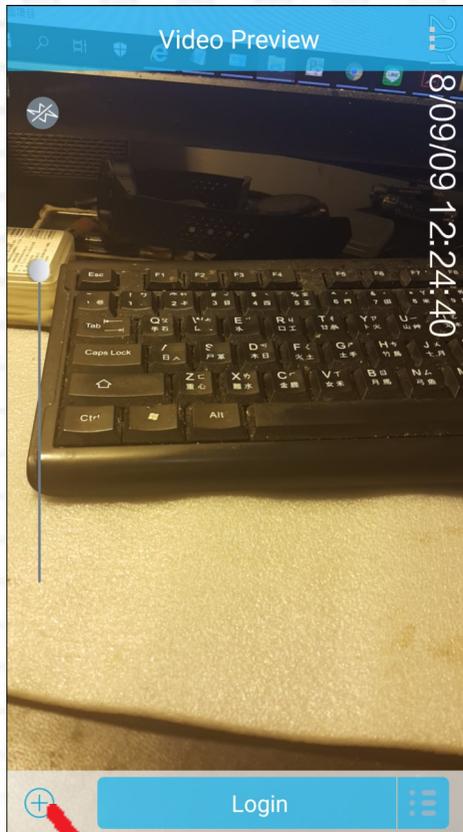
Run the Chess Royal APP on the back after Plug the earphone; Close the APP before unplugging the ear-



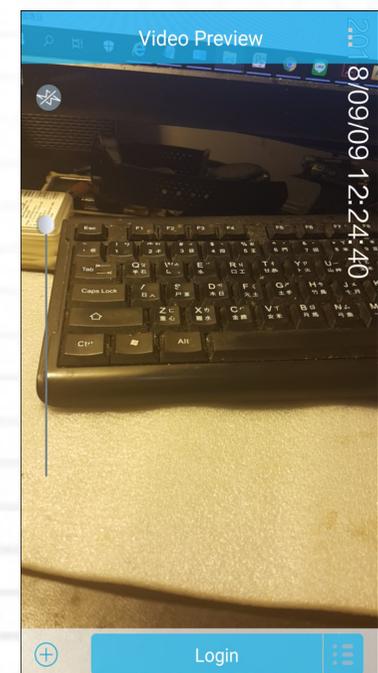
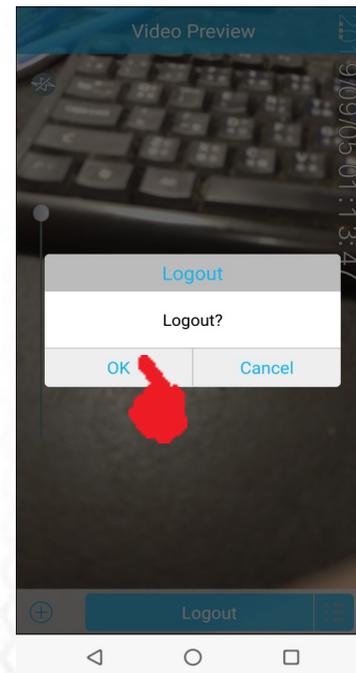
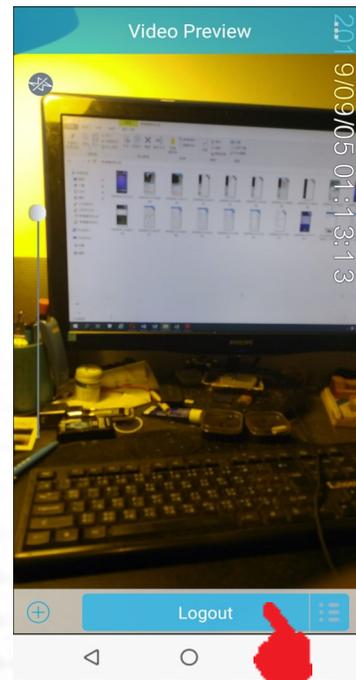
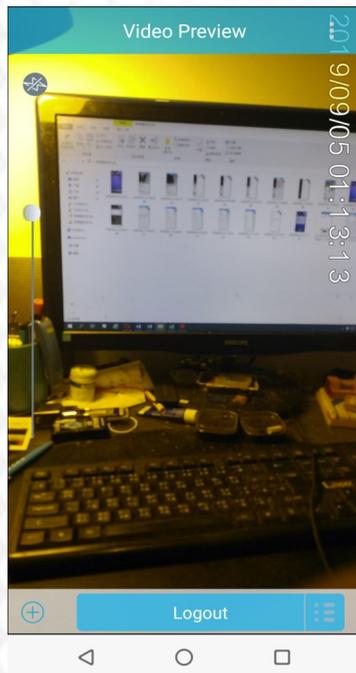
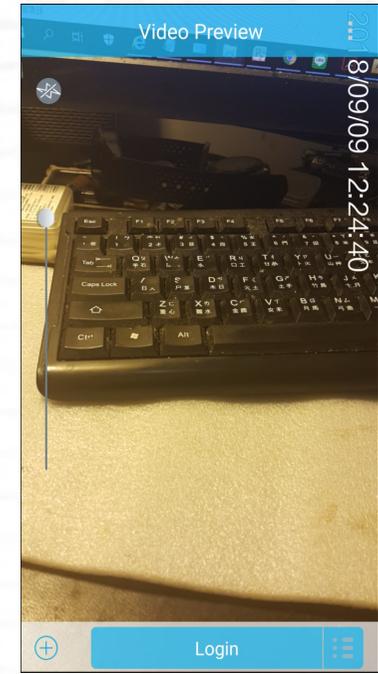
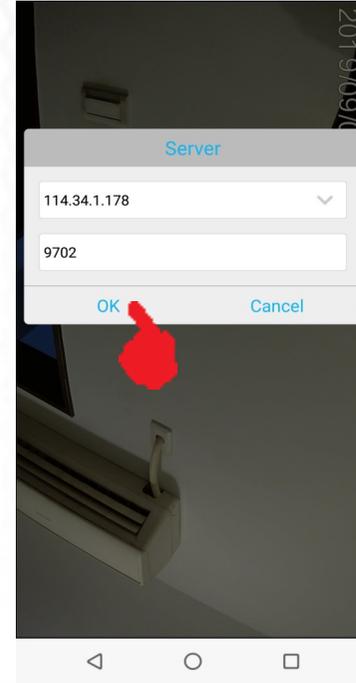
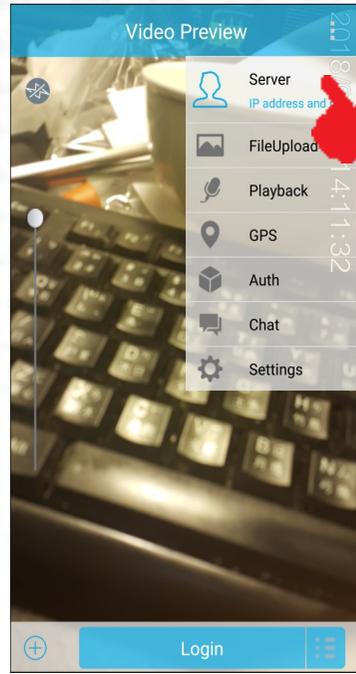
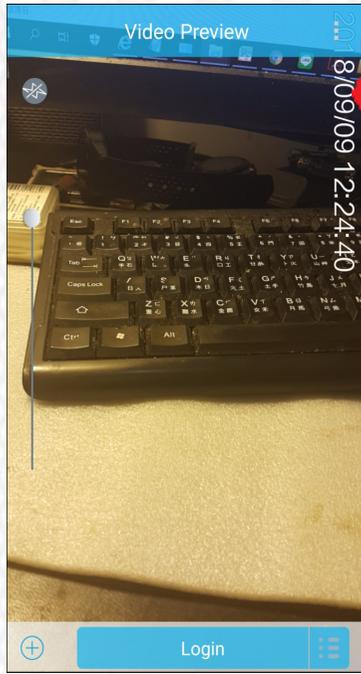
Plug the attached earphone or any other earphone with the volume control button on the cable. Push Volume+ to start record and Volume- to stop record then

*The phone screen need to open while this operation, if want to be valid also under the closed screen status (phone stand-by), only a random music need to be played with while operation

Quick Step 4 How to Switch Camera

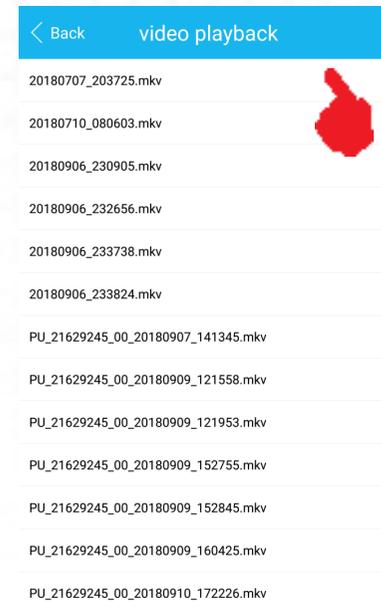
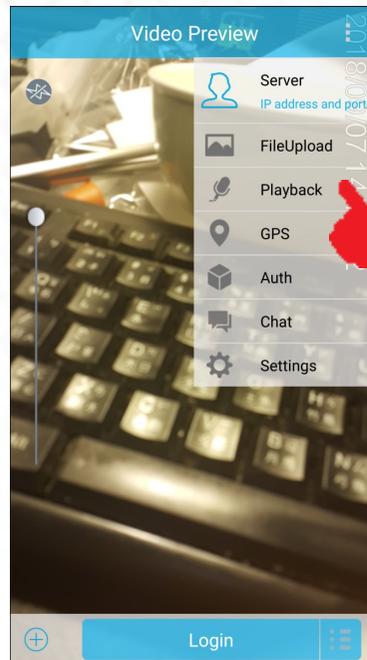
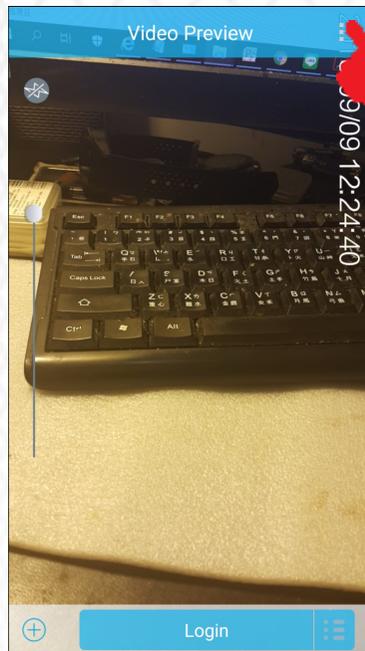


Quick Step 5 How to Active 4G Video Transmission(Optional)



De-Active the transmission

Quick Step 6 How to Play Back the video file



Quick Step 7 How to Read out the file

-Connect Phone with PC via USB cable

-Folder Position:

Built-in memory

PC>Meizu Note8>phone>MPU>storage>video

External Card memory

PC>Meizu Note8>card>Android>Data>

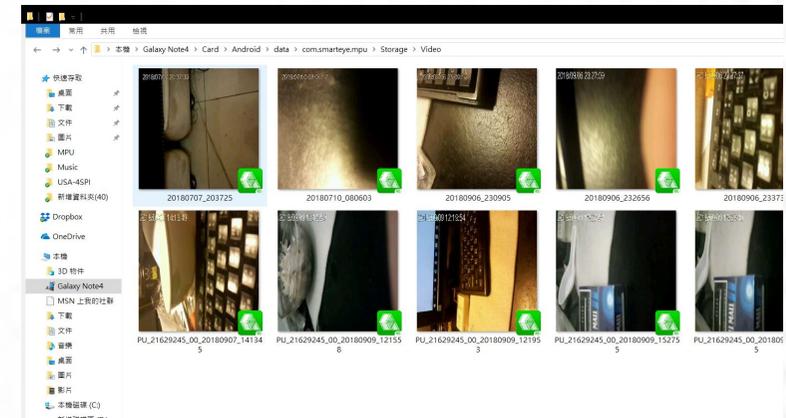
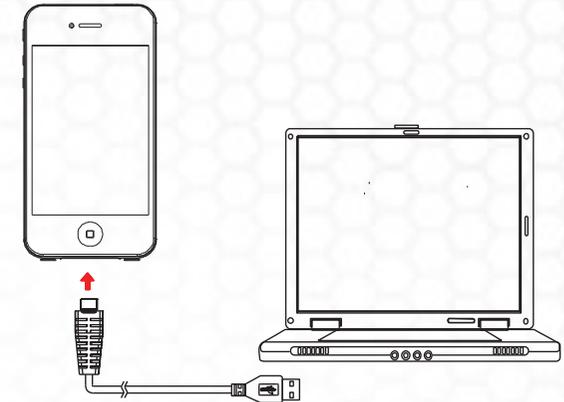
com.smarteye.mpu>Storage>video

-Can Use the file manager APP in the phone set to edit/
delete the files as well (files position same with the
above blue words part)

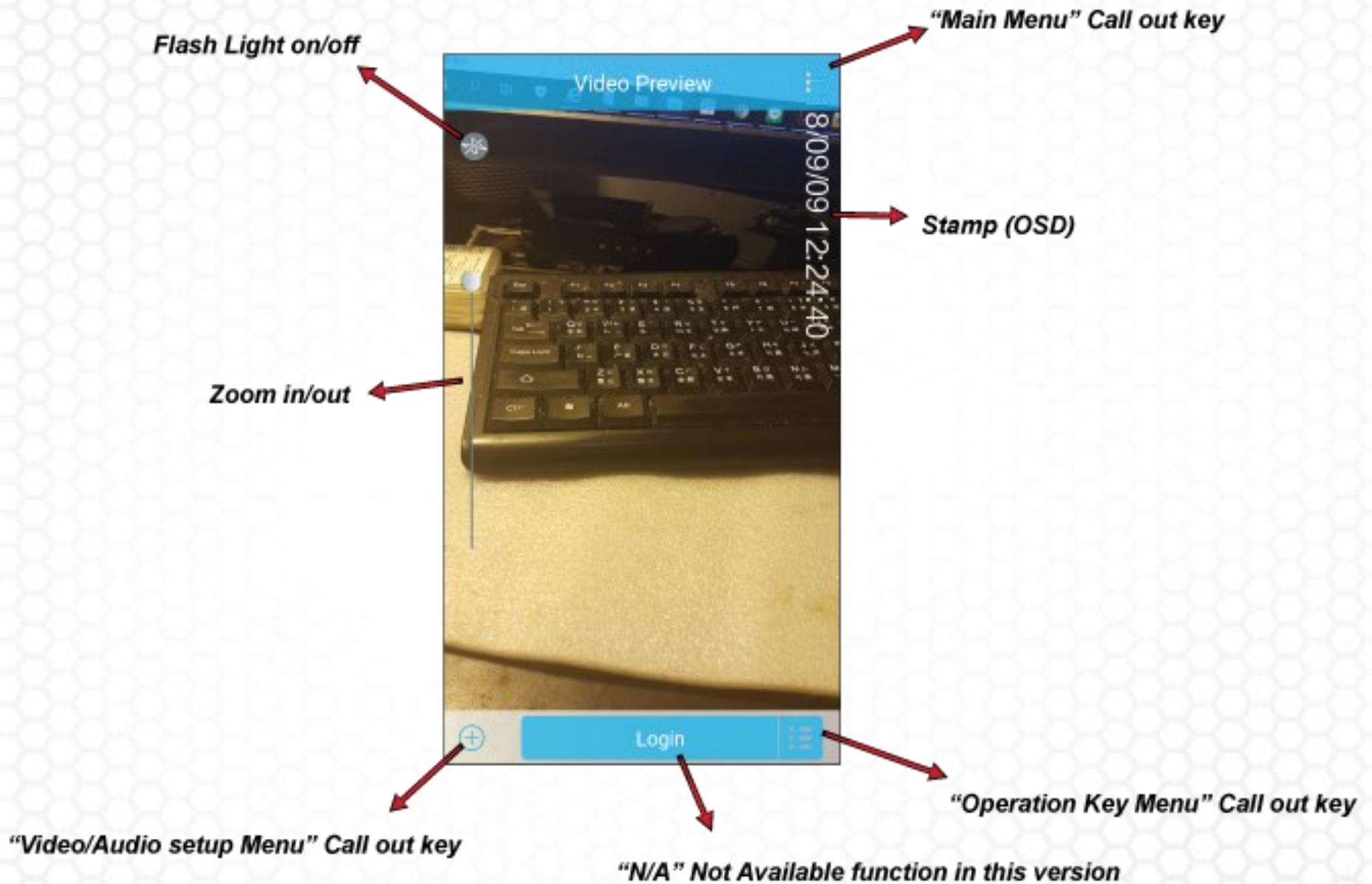
-If your PC can not recognize the phone you may check
the cable again or install its specific USB driver first from
the below link at:

<https://www.dropbox.com/s/bdckkio8kqkdi0b/Samsung>

[-Usb-Driver-v1.5.61.0.zip?dl=0](https://www.dropbox.com/s/bdckkio8kqkdi0b/Samsung-Usb-Driver-v1.5.61.0.zip?dl=0)

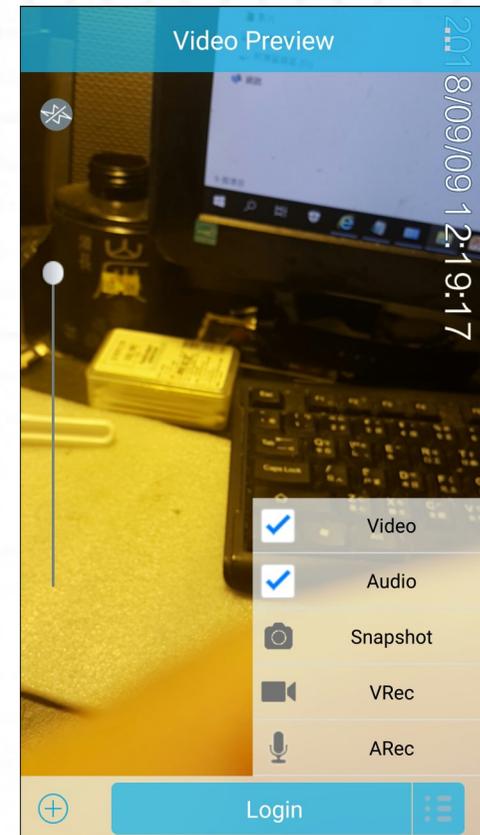


Parameter Setup Description



Operation Key Menu

- Video: N/A
- Audio: N/A
- Snapshot—Take a still photo
- VRec—Activate video record to generate the video file
- ARec—Activate audio record to generate the audio file



Video/Audio Setup Menu

Camera Page Menu

Front camera (has changed to the side) (optional)

Back camera

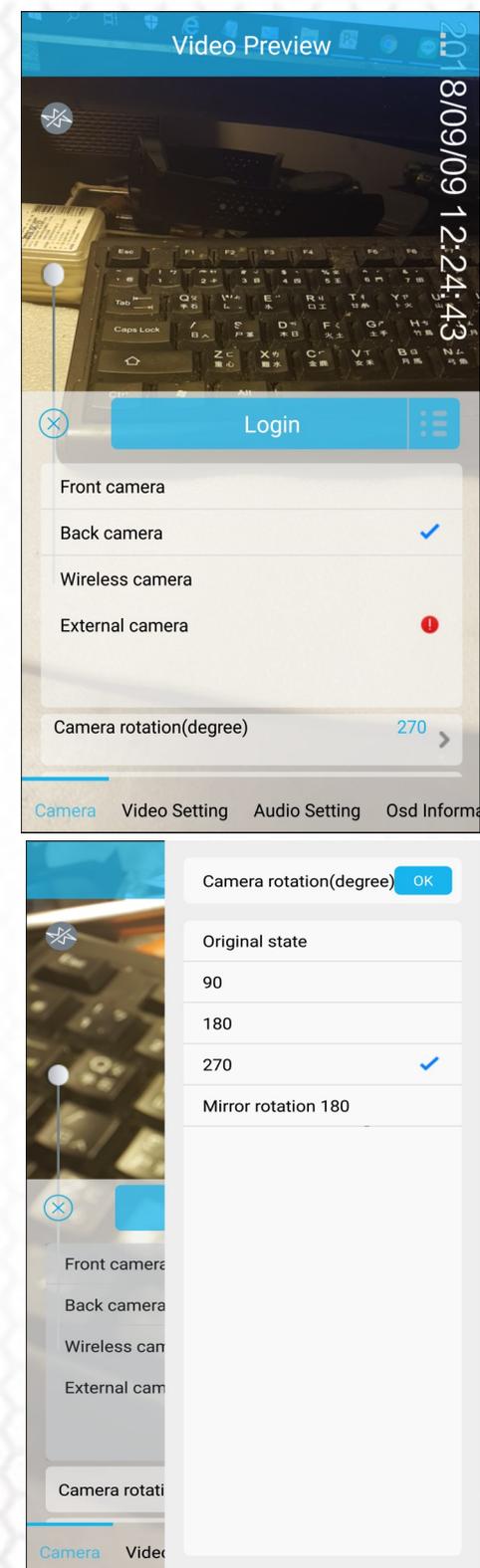
Wireless camera—Support specific optional models only

External Camera—Support specific optional our OTG/USB

Camera models only (See appendix A)

Camera Rotation (degree)—Original State, 90, 180,
270, Mirror

“Choose the degree you like according to the different ap-



Video/Audio Setup Menu

External Camera Page Menu (Optional)

-Video Codec format

MJPEG/YUYV

-Resolution

1080p/720p/640p/320p

-FPS

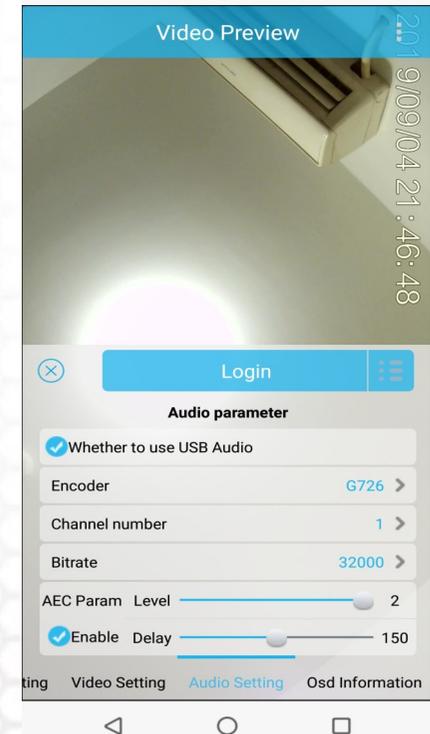
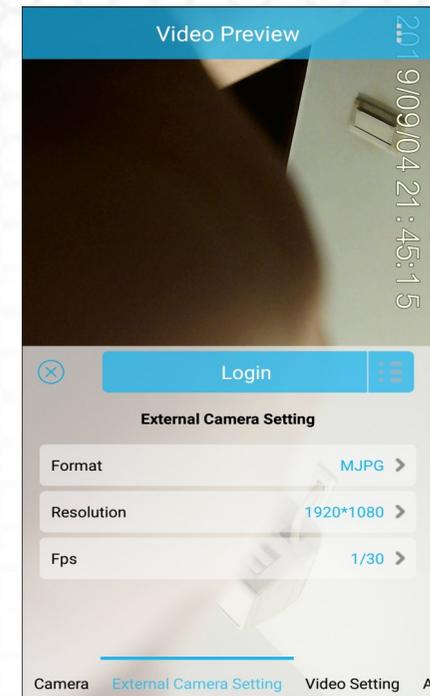
5/10/15/20/25/30

-Audio Source Chosen (pops out in the Audio setting page)

USB Audio (Mic)

Phone Audio (Mic)

*Listed above setup will only pop out while connecting an approved USB camera



Video/Audio Setup Menu

Video Page Menu

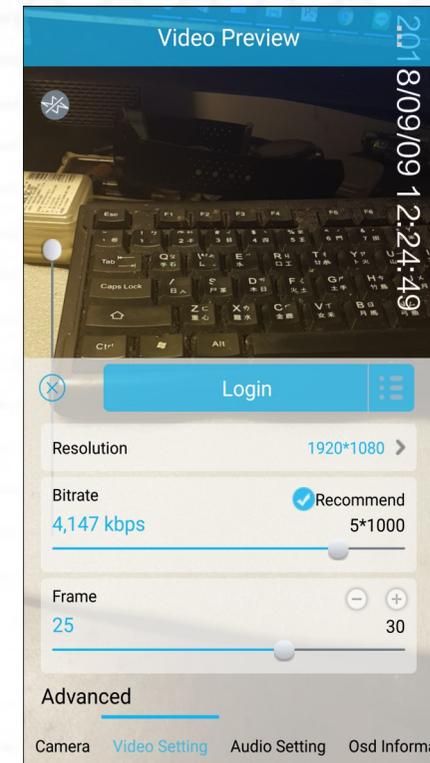
- Resolution—Mostly set on the highest 1080p
- Bitrate (Video Quality) : Set on “recommended value”

*Bitrate value setting effect the file capacity directly

For example—If bitrate set on 5Mega/per second, the file will become $5 \times 3600 / 8 = 2.25 \text{GB}$ /per hour

-Frame(per second) : 1~30

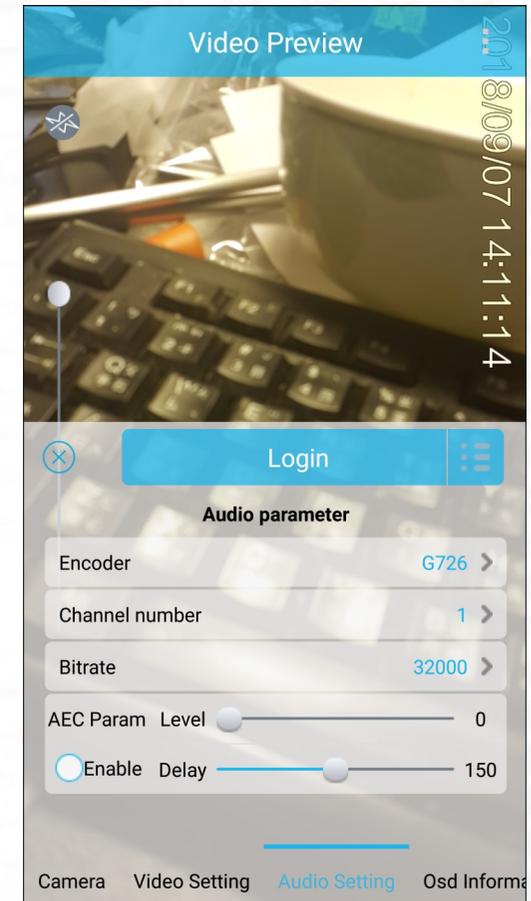
“Territories use 110V (such as USA) power will suggest to set on 30; otherwise will set on 25”



Video/Audio Setup Menu

Audio Page Menu

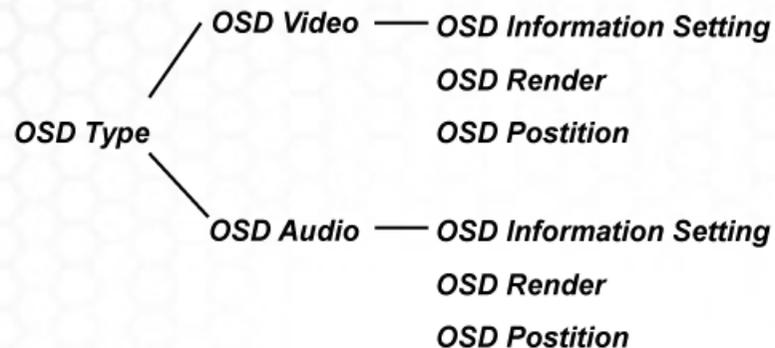
- Encoder: ACC / G726
- Channel number: Default
- Bitrate: up to 32000
- AEC (Acoustic Echo Cancellation) Level
“Generally cancel the background noise”
- Delay: (Default)



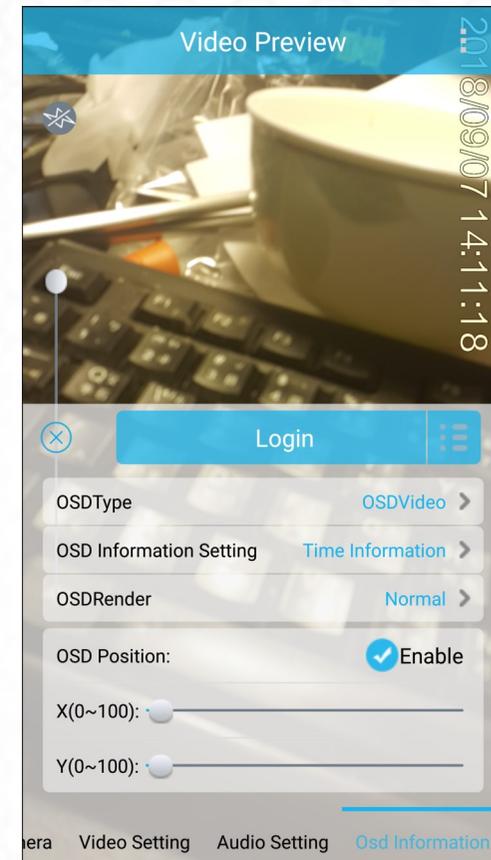
Video/Audio Setup Menu

OSD Page Menu

Please note this page setting has a little different than all others, since it a tree directory menu design like below:

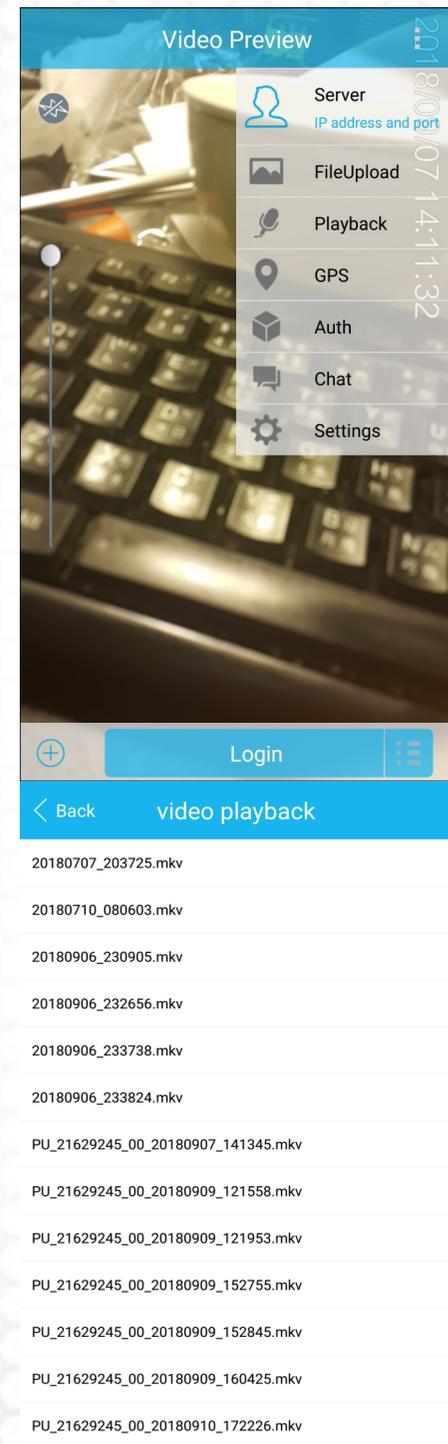


So at very first you have to select the first column to be on Video or Audio file. Then set all parameters Below, after then switch the first column to set the other type OSD to your ref.



Main Menu

- Server: N/A (optional)
- FileUpload: N/A (optional)
- Playback– Will jump out another browse window to select the certain video file to play (the below one)
- GPS: Bring out the position with GIS
- Auth: N/A
- Chat: N/A (optional)
- Settings



Main Menu

Settings Page menu

Settings>

-Language

-Device Info: Default

-Storage (see below page)

-Extended Recorded time length (Sec.)

-Pre Recorded time length (Sec.)

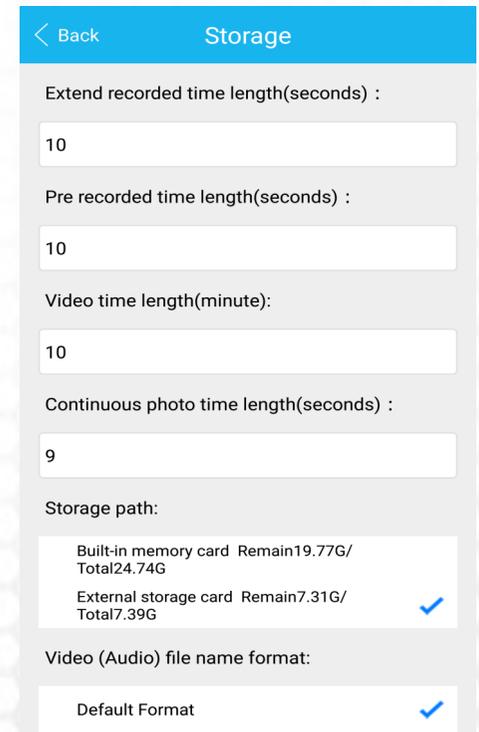
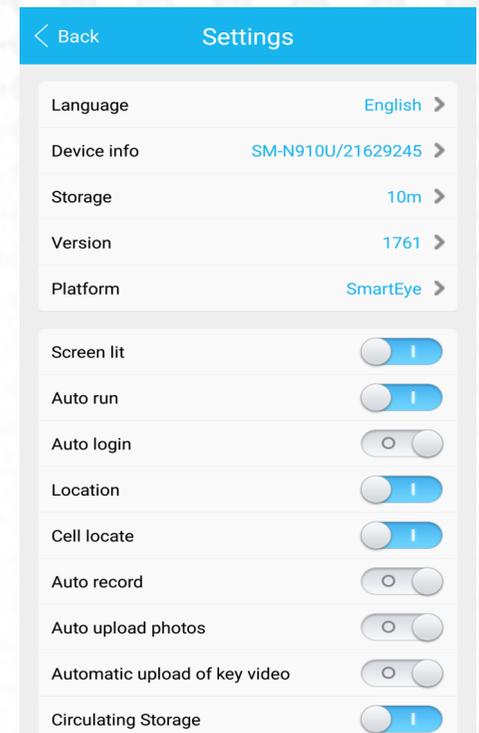
-Video Time Length (minute)

-Continuous photo time length (Sec.)

-Storage Path: Built-in Memory / External Storage

-Video (Audio) file name format

Default Format



Device ID

Device name

-Photo Custom Name:

Default Format

User Defined

Settings>

Version: Default

Plate form: Default

Screen lit (Screen light on while APP stay open) Yes/No

Auto run (Auto run the APP once phone power on) Yes/No

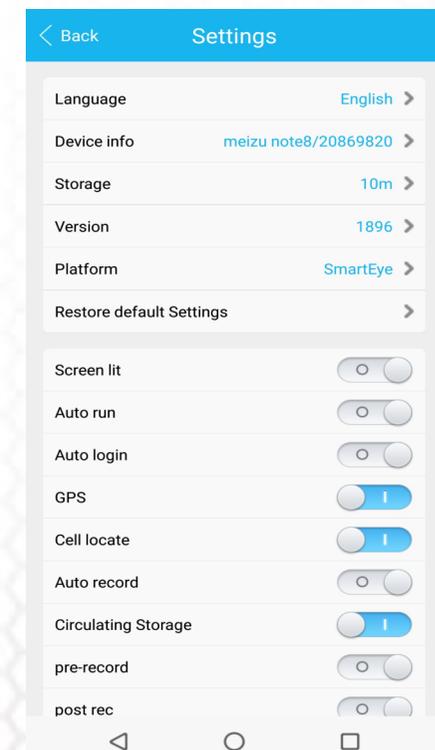
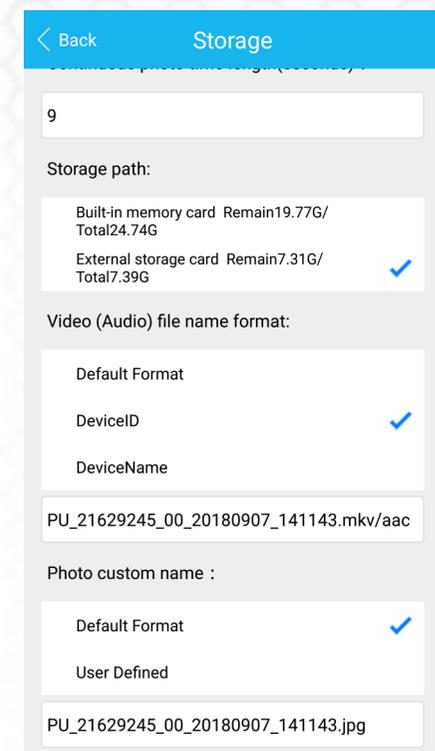
Auto login (Auto login once open the APP) Yes/No

Location (Auto positioning once record or photo) Yes/No

Cell locate (Auto identify where the cell station number is)

*Auto-Record (Start to record once run the app) Yes/No

“switch between the auto and manual record modes”



Auto record: Once active app will auto record

Yes/No

Auto Upload Photo: N/A

Auto upload the key video: N/A

Circulating Storage (Loop Record)

Yes/No

Pre-Record

Yes/No

Post Record

Yes/No

Continuous Photo

Yes/No

Mute Mode

Yes/No

Floating window

Yes/No

System preview

Yes/No

Flow Statistic

Yes/No

