CONTENTS

OVERVIEW

The camera is capable of deliver high quality Digital High Definition video to your smart-mobile device(s), which would require higher internet bandwidth. Due to your local internet environment condition, your mobile device(s) may display black-screen or temporary disconnect to the WAPP camera.

* Make sure the camera is operating with sufficient internet bandwidth, **1Mbps (upload/ download speed) is suggested.**
* For best performance, **the smart-mobile device(s) need to be on Wi-Fi or 4G mobile network** in order to receive maximum download speed.
* **When the internet transmission is low,** the app will automatically switch to Relay Mode:
    · **By adjusting to "Better Streaming" in the system setting section may improve the APP performance.**
* **Your internet bandwidth is limited.** For best performance, to avoid more than two users connecting to the camera simultaneously.
* Make sure your smart-mobile device(s) is equipped with up-to-date technology, **1.5GHz dual core processor or equivalent is suggested.**
* **If the signal strength of your Wi-Fi router is weak,** there are several ways to improve transmission:
    · Change router/camera relative position to receive better signal.
    · Use wire Ethernet cable on the camera to establish connection between the camera and your router.
    · Use Wi-Fi repeater/extender to maximize the service range of your Wi-Fi route.
    · Switch your router to 11b/11g mode in order to improve router service range.
* Please make sure the memory card used is **CLASS10** rated.

PLEASE READ BEFORE YOU START

Always use discretion when installing CCTV equipment, especially when there is perceived policy. Enquire relevant local regulations applicable to the lawful installation of video recording/surveillance. Third party consent may be required.

WIRELESS DEVICES OPERATING RANGE

Ensure the signal reception viewed from the wireless camera(s) is the best possible reception between the camera(s) and the Wi-Fi router. If necessary, reduce the distance between the camera(s) and the Wi-Fi router to improve overall system performance. Wireless Color Camera Recordable CCTV Kit operating on a secure digital 2.4GHz frequency which could greatly reduce interference from product such as wireless routers, cordless phones or microwave ovens.

IMPORTANT SAFETY PRECAUTIONS

Damages caused by non-compliance with this operating manual will void the warranty! We will not assume any liability for damages to items or persons caused by improper handling or non-compliance with the safety notices! Any warranty claim will be null and void in such cases.

1. Do not drop, puncture or disassemble the camera; otherwise the warranty will be voided.
2. Avoid all contact with water, and dry hands before using.
3. Never tug on the power cords. Use the plug to unplug it from the wall outlet.
4. Do not expose the camera to high temperature or leave it in direct sunlight. Doing so may damage the camera or cause camera temporary malfunction.
5. Use the devices with care. Avoid pressing hard on the camera body.
6. For your own safety, avoid using the camera or power off the camera when there is a storm or lightning.
7. Remove the power adapter during long periods between usages.
8. Use only the accessories and power adapters supplied by the manufacturer.
9. To meet the regulations pertaining to parental responsibility, keep the devices out of the reach of infants.
10. Check power cables, do not get crushed or damaged by sharp edges whenever the devices are in operation.

FCC Compliance Statement: This device complies with Part 15 of the FCC rules. Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Products with CE Marking comply with EMC Directive (2004/108/EC); Low Voltage Directive (2006/95/EC); RED(2014/53/EU); ROHS Directive (2011/65/EU) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:
EMC: EN 301 489
LVD: EN 60950
Radio: EN 300 328

FCC/CE WARNING

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules and ETSI(EN) 300328. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference
will not occur in a particular installation. If this equipment does interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Move the equipment away from the receiver.
- Plug the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for additional suggestions.

You are cautioned that any change or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate such equipment.

DISPOSAL

If the camera system no longer functions or can no longer be repaired, it must be disposed of according to the valid statutory regulations.
Disposal of spent batteries/accumulators:
You are required by law (Battery Ordinance) to return all spent batteries and accumulators. Disposing of spent batteries/accumulators with common household waste is prohibited! Batteries/accumulators that contain hazardous substances are marked with the symbols on the side. These symbols indicate that it is prohibited to dispose of these batteries/accumulators in the household waste. The abbreviations for the respective heavy metals are: Cd=cadmium, Hg=mercury, Pb=lead. You can return spent batteries and accumulators that can no longer be charged to the designated collection points in your community, outlets or wherever batteries or accumulators are sold. Following these instructions will allow you to fulfill the legal requirements and contribute to the protection of our environment!

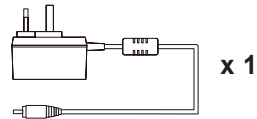# KIT CONTENT

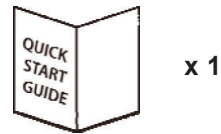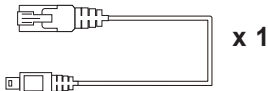| Wireless App Camera	Camera Stand
x 1	x 1
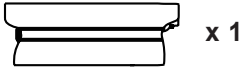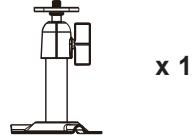
Camera Antenna	Power Adapter
x 1	x 1

Screw Pack	Quick Start Guide
x 1	x 1

USB to RJ-45 Connector
Cable (WAPP-GO1ISU-D)

x 1

Tools Required:
- Electric drill
- 5mm masonry drill bit
- 15mm masonry drill bit
- No. 2 Philips screwdriver

For best system performance:
- iOS: iPhone5 / iPad2 / Mini iPad with iOS 7.0 or above.
- Android: 1.5G dual core processor dual core procesor with 1G Ram or above.
- Storage: Class 10 memory card.
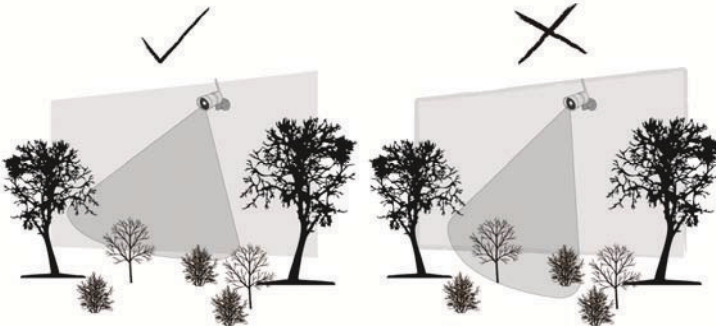- Bandwidth: 1Mbps or above upload/download speed suggested.

SAFETY AND INSTALLATION TIPS

Do not attempt to open the units with the power adaptor plug connected to avoid any risk of personal injury.

When installing CCTV camera(s), always follow manufacturer's advice when using power tools, steps, ladders, etc. and wear suitable protective equipment (e.g. safety goggles) when drilling holes. Before drilling holes through walls, check for hidden electricity cables and water pipes. The use of cable/pipe detector is advisable.

To avoid exposing any cameras to extreme weather conditions (e.g., under a gutter which is prone to any water leaks). When installing any cameras with this unit, to use cable conduit to protect any video/power extension cables from being exposed externally and to prevent/reduce the chances of the cables being tampered with. After drilling any hole though an external wall for a cable, ensure the hole is sealed up around the cable using a sealant to prevent drafts.

To prevent a fire or electrical shock hazard, do not attempt to open the housing while the unit is exposed to rain, water or wet conditions. There are no user serviceable parts inside. Refer servicing to qualified service personnel. Avoid pointing the camera(s) directly at the sun or any bushes, tree branches or moving objects that might unnecessarily cause the camera to record.

PRODUCT OVERVIEW

Antenna

Lens

Motion Sensor

Camera Stand

Memory Card Slot
and USB to RJ45

USB to RJ45

RJ45
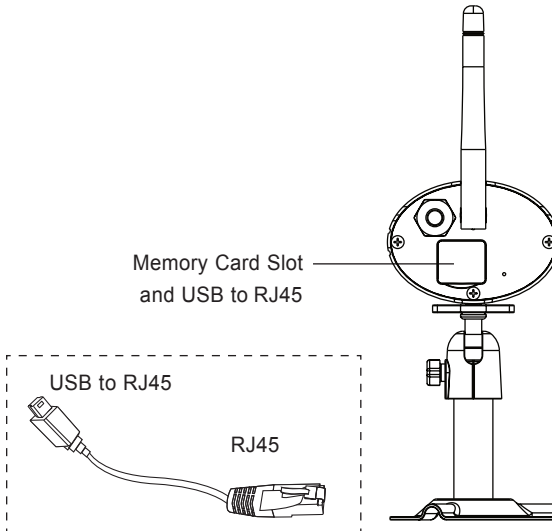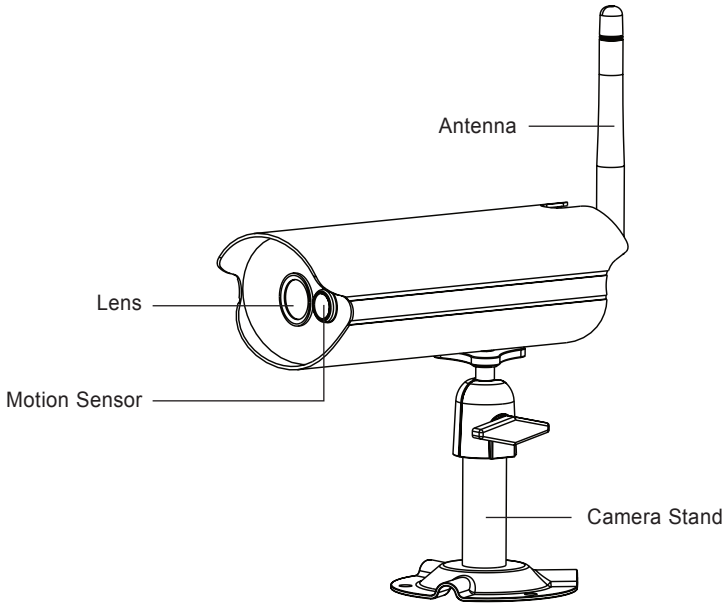
SETUP YOUR DEVICE

1. Connect your smartphone to the Wi-Fi netowrk that your deivce connect to.

2. APP download
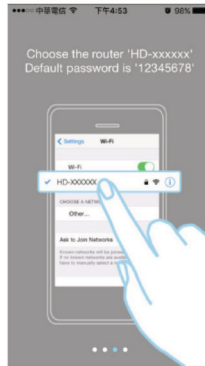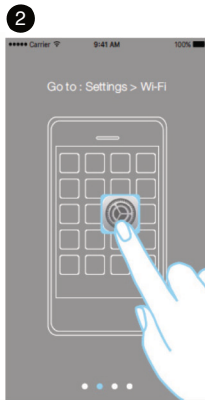Download and install the "Secufirst HD" app from Google Play^{TM} ot the App Store$^®$. Then launch the app.
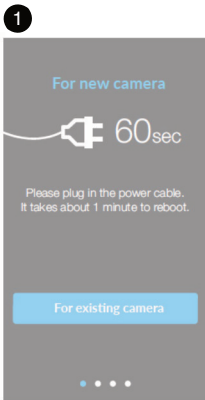

For iOS

For Android

3. Add camera
1. Power on the camera, wait about 1 minute until the device restart.
2. Go to the Wi-Fi settings from your smartphone, choose the Wi-Fi name starting with

"HD-XXXXXX", then enter the default password "12345678".

❶

For new camera

⊏▪ 60sec

Please plug in the power cable.
It takes about 1 minute to reboot.

For existing camera

❷

Go to : Settings > Wi-Fi

Choose the router 'HD-xxxxxx'
Default password is '12345678'

3. Scan the QR code or enter camera DID manually, name your system and enter the security code "123456".
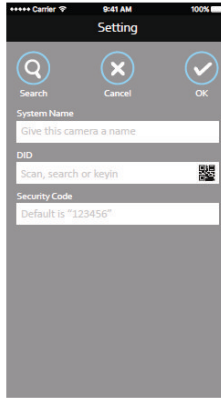
4. Later, the app will request you to change a new password. The password must have at least 12 characters, 1 upper and lower case letter, 1 number and 1 special character.
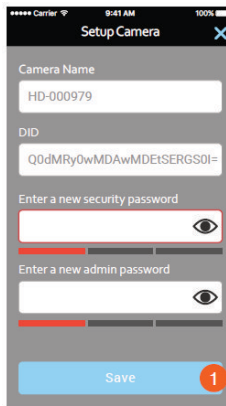
5. Connect your device to a Wi-Fi network. Select your Wi-Fi network and enter the password. If there is no Wi-Fi you want to set, please tap Skip to pass at this time and do it later in advance setting. If you wish the camera works on wifi after reboot, please unplug Ethernet cable of Wi-Fi router right after tapping Next.
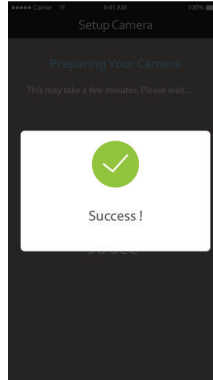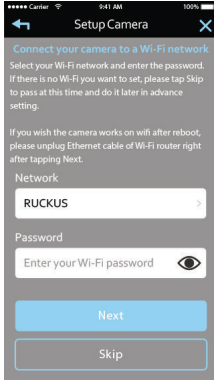
Install Your Deivce
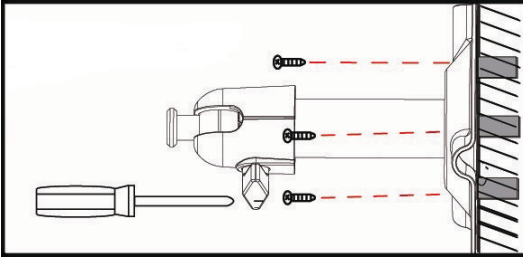
Secure camera stand on the stable surface.
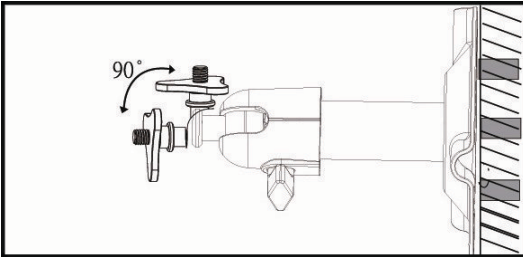
Loosen up the Thumb screw. Adjust proper view angle then secure the joint with T-bolt.

Ceiling Mount
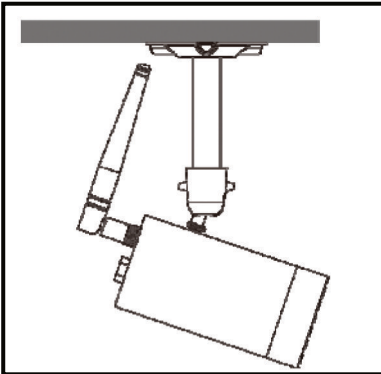
Wall Mount
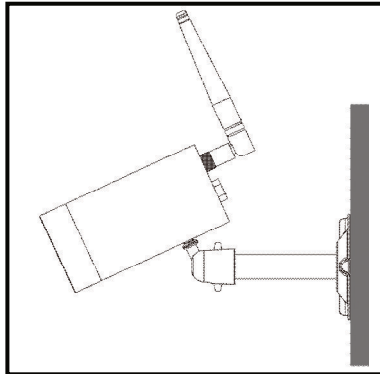
APP OVERVIEW

The MAIN PAGE provides an overview for all devices, including devices status (connected/disconnected). You can quickly access the device in the section. When multiple devices are registered, scroll down to locate the registered device for access.

Main Page

Name
Connect Status

Tap here to see the live-view
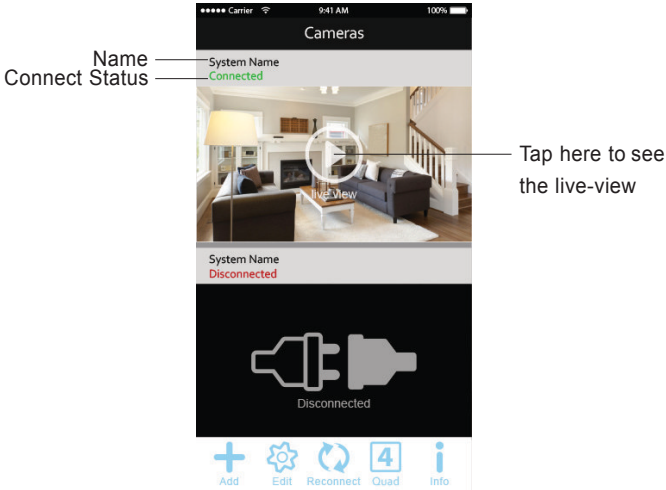
The ADD CAMERA icon allows you to add new camera(s) to the system. The system supports up to 3 concurrent user connections.

Tap the Edit to access/exit the edit settings.

Tap the RECONNECT ICON to reconnect the camera if the camera status shows as being offline.

Tap here to access the quad view page.

The INFORMATION icon allows you to enable PIN lock, push notification and check the App information.

Edit Camera

In the CAMERA SETTING section you able to (1) access the advanced settings, (2) delete the camera from APP and (3) enter event list for recorded video file(s) playback.
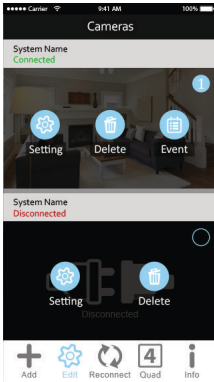
Tap to access the advanced settings page

Tap to delete the device

Tap to see the events of this device

Quard view

The Quard view splits the screen's image into 4 quadrants and display active camera video in each quadrant. Select cameras you would like to display from camera list, tap the center of the quadrant to enter a single channel mode.

Click here to choose which camera you would like to display into 4 quadrants.
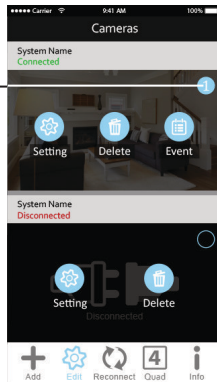
Drag and move the position you prefer

Tap to see the live-view

Setup Pin Lock
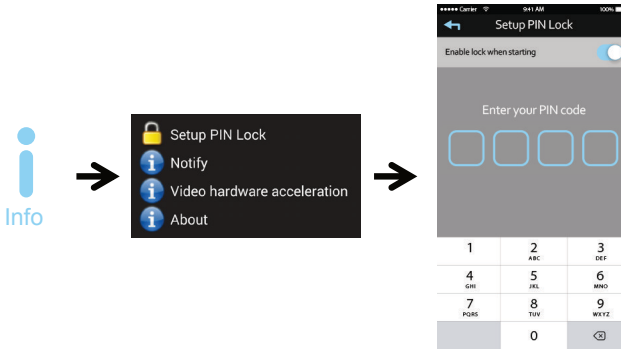
If you enable PIN Lock, the user will be asked to enter the PIN code when you launch the APP.
1. Enable the "Enable lock when starting" function. Then enter your PIN code.
2. Confirm your PIN code again.

> **Note:**
> If you forgot your PIN code, please uninstall the APP and reinstall it on the mobile device.

Notify (Push Notification)
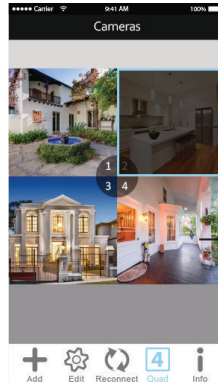The WAPP camera supports motion detection function. When any event is detected in the camera site, you'll receive push notification on the mobile devices for the event recognized by the camera.

For iOS
If you want to enable/disable it, please follow the steps on your iOS mobile device:
1. Launch Settings from your Home screen.
2. Tap Notifications.
3. Scroll down to find the APP and tap on it.
4. Switch the toggle to ON/OFF in Notification Center.

> **Note:**
> It takes time for the changes to take effect in iOS, normally within 2 hours.

For Android

If you want to enable/disable it, please follow the steps below.
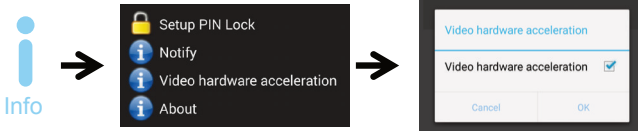
> **Note:**
> The internet connection and wireless network interference may influence the performance of push notification service.

About App/API Version Info

Tap the ABOUT icon to check the APP Version when necessary.
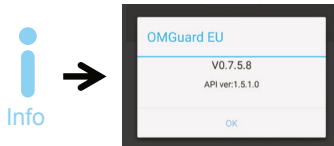
> **Note:**
> The internet connection and wireless network interference may influence the performance of push notification service.

LIVE VIEW / SNAPSHOT / EVENTS

Live View
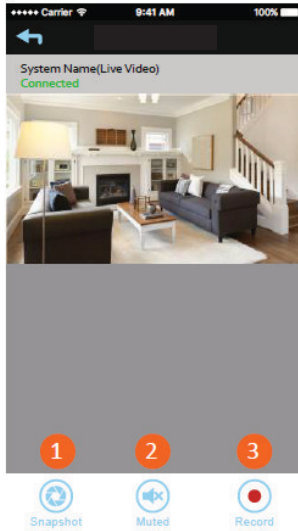
Tap to take snapshot image(s) of the video. The captured snapshots will stored in your mobile device.

Snapshot

Tap to turn ON/OFF the volume.

Unmute

Tap to Start/Stop recording. The recorded video file will stored in the memory card of your camera.

Record

Viewing Your Snapshots

For iOS
You snapshots will be named with the time stamp and saved into the Camera Roll location of your mobile device.

For Android
You snapshots will be named with the time stamp and saved into the Photo Gallery > snapshot folder on your mobile device.

Events

The recorded video file(s) on your camera is automatically saved to the memory card inserted in your camera. You can remotely access the file(s) for playback via your mobile device.

Tap the 🔅 to access the edit menu.
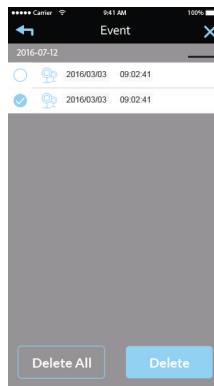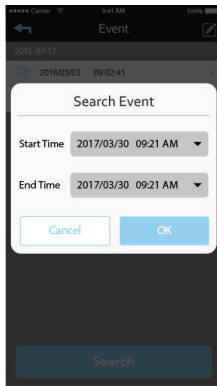
Select the camera you would like to delete

Playback

During the playback, you can pause/play the video, to deactivate/activate the audio function.
You may also review recorded video file(s) with your PC.
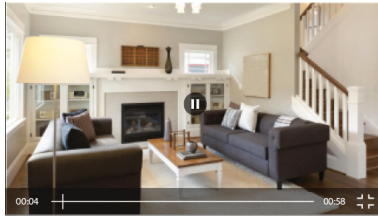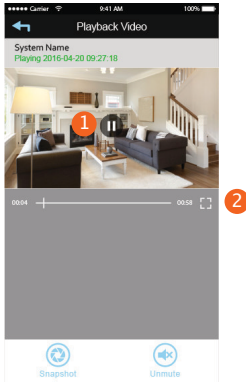
1.Tap to pause/play video
2.Tap to view full screen

Delete

First tap the edit icon, then select the file(s) you would ilke to delete from list.
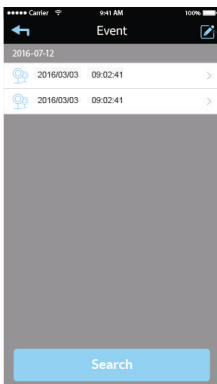
Tap here to edit event list

Select the video you want to delet

Delete the video clip

Download

Download the video file(s) in the EVENT LIST section. Tap the search icon, you can specify a date and time period to search for events. Then press the download icon to save the video clip into your device.
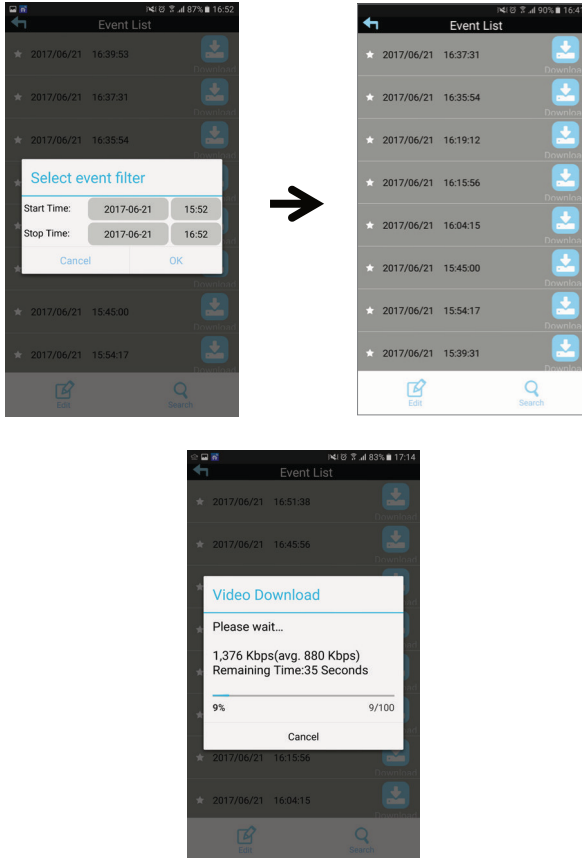
> **Note:**
> During the download process, system will stop both the live view and recording functions. APP will automatically inform any user accessing the camera that the systemis busy and the connection has been terminated.

ADVANCED SETTING

This chapter explains the advanced settings for administrator. Administrator is the one who owns the administration password and has the full control to the WAPP camera. The administrator can access all WAPP functions and settings, while general users can receive the surveillance images for live view/screen capture/video recording and may not manage the camera settings.

Admin Password	The security code required to enter Advanced Setting for system setting management.
Camera Security Password	The password required for remote access
Time Setup	Setup the appropriate time zone.
Wi-Fi Setting	Manage your Wi-Fi Network.
Video Setting	Configure the video quality and local power frequency.
Sensitivity Setting	Setup the camera sensitivity for motion detection.
Notify Enable	Enable / Disable receiving E-Mail alert (after system detecting motion) on your mobile divice. Please make sure you have setup the E-Mail Setting correctly and have activated Motion Detection function.
Motion Mask	Use quick de-select and/or tap screen.
Email Setting	Setup your email account for E-mail alert .
SD Card Setting	Format the SD card.
Device Information	Check the App and API Kernel version.
Firmware Update	Update new firmware.

Note:
It may take more than one minute for some routers to update the registered devices. When you complete advanced settings and return to device list, please wait for a while allowing your router to finish the camera registration.

Basic Settings

Admin Password

The Admin Password is a specific security code for administrator to change the advanced settings. The default admin password is 123456.

Please use this function to change the default admin password into your personal admin password. For the protection of your system configuration, every time you change the advanced settings, you need to enter the admin password. Please change the admin password periodically.

> **Note:**
> If you forgot your admin password, please long press the reset button on the camera DC jack for 5 seconds to restore the password into factory default value 123456 (please refer to the Camera Overview section). All settings will be restored to factory default. You will need to configure your camera from the start.

Device Security Code

The Device Security Code is a specific security code to access the camera.

The default password of the camera is 123456. Please use this function to change the default password into your personal security code.

1. Type in the old password.
2. Type in the new password and confirm the new password again.
3. Tap OK to save the setting.

> **Note:**
> 1. Change password in system information page accordingly.
> 2. If you forget the Device Security Code, please hold down the reset button (P.8) for 5seconds to reset the system to factory default. All settings will be restored to factory default. You will need to configure your camera from the start.

Time Setup

The drop-down list shows the world time zone. Select the time zone that will work the best for you. If your date/time is during the daylight saving time period, please check the Daylight Saving box to adjust the system time properly.

Video Settings

This section allows you to configure the video quality and environment mode.

Video Quality

The Video Quality setting section allows you to adjust the quality of the video streaming. By selecting best video image will allow you to view high resolution image. By selecting standard streaming will allow the video to display more smoothly (quality depend on local internet environment).

Only select better image when you have sufficient bandwidth and updated mobile device(s).

Environment Mode

The Environment Mode settings allows you to select the power line frequency used at the location of WAPP camera. The power line frequency varies depending on geographic region. It may cause image flicker if wrong frequency is selected. Please check with local authorities for proper setting.

There are two type video color tone, user can change the video color tone between warm-yellow(indoor) and cool-white (outdoor).

Low Light Enhancement

The Low Light Enhancement Mode is for improving the night view video image by providing 5 levels to select from (5 = brightest).

Screen Orientation

Tap to select the desired screen orientation; Normal, Flip (when installed on a ceiling, make sure to select flip), Mirror or Flip and Mirror.

WI-FI Setting

The Wi-Fi setting allows you to choose the wireless connection and setup the Wi-Fi environment. When you tap the "Manage Wi-Fi network" button, the system automatically scans the nearby network and shows the available Wi-Fi routers in the drop-down list. Choose the appropriate Wi-Fi router and enter the Wi-Fi router password if necessary. Due to security concerns, it is suggested to use the WPA/WPA2/ WPA2-PSK protocol for Wi-Fi network.

> **Note:**
> 1. When the Wi-Fi connection is completed and you unplug the Ethernet cable, the camera will reboot and it will take several minutes to establish the connection. Please re-launch the APP when you see the green signal indicator lights up.
> 2. The WAPP camera is designed to work with the legal Wi-Fi channels in your region. Please refer to your Wi-Fi router manual to choose an appropriate channel for WAPP camera.
> 3. If camera fails to connect to the Wi-Fi router, please hold down reset button for 2 seconds to reset the system and repeat register process again.

Sensitivity Settings

This defines the camera parameter for motion detection.

Detection Mode

PIR is hardware-based biomass detection.
SOFTWARE use advance software analysis to trigger motion alarm.

Motion Detection (available for Software Mode ONLY)

HIGH – Suitable for detecting smaller object(s) within 5 to 6 meters
LOW – Suitable for detecting larger object(s) within 3 to 5 meters

> **Note:**
> The HIGH/LOW setting for Motion Detection only takes effect when user chooses SOFTWARE in detection Mode.

Motion Mask

This fuction allows you quickly select motion mask from 3 default model. In addition to, the user is able to tap screen which area you don't want to be detected.

1. Tap the area where you don't want to detect the motion.
2. 3 icons for quick tapping of bar area.
3. Reset button.
4. Save setting.

Time Stamp

This section allows you to change the time stamp background color. And drag anf drop where you want to place the time stamp.

1. The time stamp locates at the coner where you tap.
2. Tap to change the time stamp background color.

Email Setting

The email setting allows you to configure the email environment, email account and password. Gmail account is suggested.

Click the "Use SSL" check box will transmit the data in encryption. This setting requires the Simple Mail Transfer Protocol (SMTP) configuration. Most ISPs use the SMTP method to transfer outbound mail via the internet. Only use the SMTP that supports SSL.

Gmail Setting (suggested)		
SMTP Server	smtp.gmail.com	Enter the gmail SMTP server
SMTP Port	465	Enter the SMTP port 465
Username	XXX@gmail.com	Enter your email address
Password	XXXXXXXX	Enter the password for this gmail account
Email to	XXX@gmail.com	Enter the email address for the recipient who receives the email alert.

SD Card Settings

Formatting your memory card will **ERASE** all the data from it and you will not be able to get the data back. Please back up your video files **BEFORE** formatting the memory card.

> **Note:**
> The system is optimized to Class 10 memory card. Memory card with lower specification will decrease the recording and playback function efficiency.
> During format process, all recording & viewing will stop until format process completes.

Overwrite SD Card

This function will overwrite the oldest files when the micro memory card is full. Turning on this function will enable the system to start overwriting the old files when the available memory card capacity is not enough. This ensures the most up to date video recordings can be saved so that you won't miss any important information.

> **Note:**
> You will want to reformat the memory card from time to time to ensure the condition of the storage device. Your camera system will not work properly if the memory card become corrupted.

Device Settings

This section shows the device information about the camera, including device version, total size and available size of the memory card.

TROUBLE SHOOTING

IF	SOLUTION
The APP cannotfound the camera	· Make sure your network supports the DHCP protocol. · Make sure the camera and your mobile device connect to the same Wi-Fi router for the first setting. · Make sure the Wi-Fi router is activated. · Make sure the camera is properly powered on. · Use the "ADD CAMERA" function to manually add the camera.
Wi-Fi router is not shown in the drop down list	· Make sure SSID broadcasting function is enabled in the Wi-Fi router. Consult your Wi-Fi router manufacturer for the settings if necessary. · Change the wireless security protocol of your Wi-Fi router into WPA/WPA2/WPA2-PSK. Due to security concerns, WEP protocol is not suggested for some Wi-Fi routers. **Note:** WPA/WPA2/WPA2-PSK encryption protocols are newer and more effective security standards for wireless networks than the older and less-secure WEP protocol.
No image appears	· Make sure the power adaptor is not damaged or defective and plugged into an electrical outlet with power. · Relocate the camera to obtain the best reception of wireless signals. · Make sure the camera is properly configured in App. · Make sure the mobile device is connected to 3G/4G/Wi-Fi properly.
Low wireless signal Poor image quality	· Wireless devices such as wireless home stereo system may reduce the signal strength. Leave as much space as possible between the camera/mobile device and these wireless devices. · Clean the camera lens using lens cleaning cloth. Spots or dust on the lens can also cause image quality problems.
Motion detection is not working or over-react	· Make sure the sensitivity setting is turned ON (please refer to the Sensitivity Setting section). · In motion detection mode, a moving object within the camera viewing angle is necessary to trigger the motion sensor for recording

The APP cannot record any video clips	· Make sure the SD card has been correctly inserted · Make sure the motion detection function has been enabled. (please refer to the Sensitivity Setting section). · Please format the SD card when it is used for the first time (please refer to the SD Card Format section) · Make sure you are using Class 10 rated memory card.
Email alert is not working	· Make sure the email alert function is enabled (please refer to the Email Alert section). · Gmail account is suggested for the email alert function. Make sure you have setup the system configuration as suggested in the Email Alert section. · Make sure the email address is has been correctly entered.
Bright white spots appear at night time	· The camera's infrared LEDs produce invisible light that reflects off surfaces such as glass.Install the camera on the other side of windows or place the lens flush against the surface to improve the night vision. It is suggested toinstall camera(s) under well-lit area. **Note:** Please check the environment rating (Ingress) of the camera(s) before installing outdoors.
Memory card error	· Make sure the memory card is correctly inserted and formatted. · Use the provided memory card within the package to ensure proper operation. · Make sure your are using Class 10 rated memory card. **Note:** Please backup the data before formatting. Format function will erase all the data on the memory card.
Wrong data and time are shown	· Wrong date and/or time will result in unexpected record schedule. Make sure you've selected the correct time zone (please refer to the Time Zone section). · Confirm the system date/time of the mobile device to ensure correct operation. · System will clock itself when connect to the internet. Make sure the system is connected properly to the internet. You may use your mobile device to access the system to see if remote view is f unctioning properly.

PRODUCTION SPECIFICATION

Networking Parameter	
Wireless Technology	IEEE 802.11 b/g/n
Network Connection	Ethernet (10/100 Base-T/Base -TX); Wi-Fi
Network Protocols	TCP/IP, UDP, SMTP, NTP, DHCP, ARP
Simultaneous Viewers	3 concurrent sessions
Security	WPA /WPA2/WPA2-PSK (TKIP, 128 bit AES)
Camera Parameter	
Image Sensor	Mega pixel CMOS
Antenna	3dBi Dipole
Housing	Weather resistance metal
Environment Rating (Ingress)	IP66
Light Source Environment	Indoor (50Hz); Indoor (60Hz)
Local Storage	Micro SD memory (not included in the package)
Viewing angle	H:90°, V: 45°
Lens	4.0mm
Min. Illumination	1~8 lux
Number of LEDs	6 IR LEDs with IR switcher
IR Distance	10 meters
Video Audio Parameter	
Image Compression	H.264
Image Resolution	HD 1920x1280
Recording Frame Rate	1080P@30 FPS
Supported Mobile Device	
iOS requirement	iPhone 5S / iPad Mini / iPad 2 with iOS 7.0 or above
Android requirement	Android 4.4X or above
Hardware requirement	1.5GHz dual core or above 1GB or above internal memory
General Parameter	
Power Requirements	100~240V switching power supply DC 5V 1.5A
Operating Temperature	-10°C~+50°C

STORAGE MEDIA MANAGEMENT

Micro SD Card Capacity (Class 10)	Event	Minutes
8G	400	180
32G	1600	320
64G	3200	760
128G	6400	1440

APPENDIX: COMPATIBLE LIST

WiFi Compatible Router List

Brand	Product Name
ASUS	RT-N53
BUFFALO	WIR-HP-C300NH2
BUFFALO	WZR-HP-G450
Cisco	ERT120
D-Link	DIR-816L
Huawei	WSR20
INTELBRAS	WRN300
NETGEAR	Wndr3700v4
NETGEAR	WGR614
Tenda	FS395
TP-link	TL-WR941N

SecuFirst

Ericssonstraat 2

5121 ML Rijen

Netherlands

W: www.secufirst.eu

E: info@secufirst.eu