
SAMSUNG SMARTCAM

User Manual

SNH-P6412BN



Samsung SmartCam

User Manual

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SPECIFY SERVICE INSTRUCTIONS AND WARRANTY TERMS

This device complies with Part 15 of the FCC Rules.

Operation is subject 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.

FCC NOTE:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.

SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Operational Description

The operational description shall fulfil the requirements of Rule Part 2.1033(b)(4). The rule part requires, "A brief description of the circuit functions of the device along with a statement describing how the device operates. This statement should contain a description of the ground system and antenna, if any, used with the device".

The above requirement has been further interpreted by the FCC to mean that the description shall:

- a. be an operational or technical description of how the device operates, is modulated and meets requirements;
- b. describe the EUT completely. What is it (in plain English as well as technical terms)? Give a clear, concise functional description of device operation.
- c. always describe the signal, such as modulation type, pulse repetition rate, signal type and information being sent. Describe all modulation types and all data rates.

Instructions & Warranty

The manufacturer is not responsible for any loss or radio/TV interference caused by unauthorized modification of the product.

Such modification will void the warranty of the product as well as the user's right of use.

WARNING

- The product must be assembled and installed by an adult.
- Before using, read all instructions on this manual thoroughly and follow operational instructions, warnings on this manual and printed on the product.
- To avoid entangled power cord, do not place it around the baby bed or other infant furniture. Keep this product and its power cord out of children's reach.

Contents

- Especially, the power cord should be installed carefully while keeping it out of children's reach.
- Never use the product near bath tub, sink, washing machine and in wet basement to avoid moisture.
- The product is designed for indoor use.
- The product is not designed for medical monitoring, and requires a grown-up's protective supervision on its use.
- To avoid overheating of the product, do not expose the product to direct sunlight; do not install or use near a heat source such as heater, radiator, cooking devices (ex: electric stove or oven) and other warming devices (ex: audio amplifier, TV, etc.).
- Make sure to keep ventilated while using the product.
Avoid pillar or furniture that may block ventilation, when installing the product.
- Make sure to use the power adaptor provided. If used with unidentified adaptor, it may damage the product. The power adaptor must be used with regular household electric supply.
- Avoid sharp, pointed objects around the adaptor's cable, not to damage the cable.
- Be warned and never hold the cable's stripped part when connecting / disconnecting the adaptor to/from the wall outlet.
- To avoid entangled cable lines, avoid using cable extension for adaptor's power cord.
- The product's servicing is allowed only to authorized Samsung's service personnel.
- When using the product for children's care, be careful to keep the product out of children's reach.
- The product partially contains component which might cause respiration difficulty. Accessories and small parts of the product should be stored keeping out of children's reach.
- The product is not designed to replace responsibility of human supervision on children.
- The product is not equipped with device of immediate notification to adult with accidental/sudden children's move; it requires periodic checks and human supervision.
- This appliance and its antenna must not be collocated or operation in conjunction with any other antenna or transmitter. A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.
- Please note that the content of a micro SD card used for other purposes may be deleted when it is mounted in the camera.

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GETTING STARTED

01

Features

What's Included

Part names and functions

Power Supply

Connecting the Ferrite Core to the power supply adaptor

Network connection

Features

- **Easy to install**
 - Simply visit the home page (www.samsungsmartcam.com) and download and install the program without a separate installer program.
- **Remote monitoring**
 - Whenever and wherever if you are in the Internet enabled environment, remote monitoring is ready for you.
 - PC, laptop or smart phone can be used for monitoring.
- **Real-time alarm**
 - When a motion and sound are detected, your smartphone will generate real time alarms.
- **Cloud Storage**
 - Users can automatically upload event photos to their Picasa accounts.
 - Anytime anywhere you can enjoy the video and images stored in the cloud storage.
- **Saving in SD card**
 - When an event occurs, the user can save the video in their SD card.
- **Two-way Audio**
 - With the built-in speakers and microphone, you can make Two-way communications.
However, it is available only with the smart phone. (Not applicable to the PC or laptop computer.)
- **SNS (Social Networking Service) Alarm supported**
 - Provide event alerts through Picasa.
 - Share your photos with your friends.
- **IR LED**
 - At low illumination levels, you can use an IR LED for monitoring purposes.

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What's Included

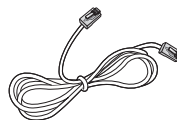
Check for components when opening the product package.



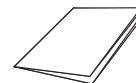
Camera & Bracket body



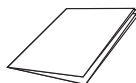
Power Adaptor



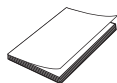
Network Cable



Quick Start Guide



Warranty Card



GPL Licence



Double Sided Tape



Tapping screw



Plastic anchor

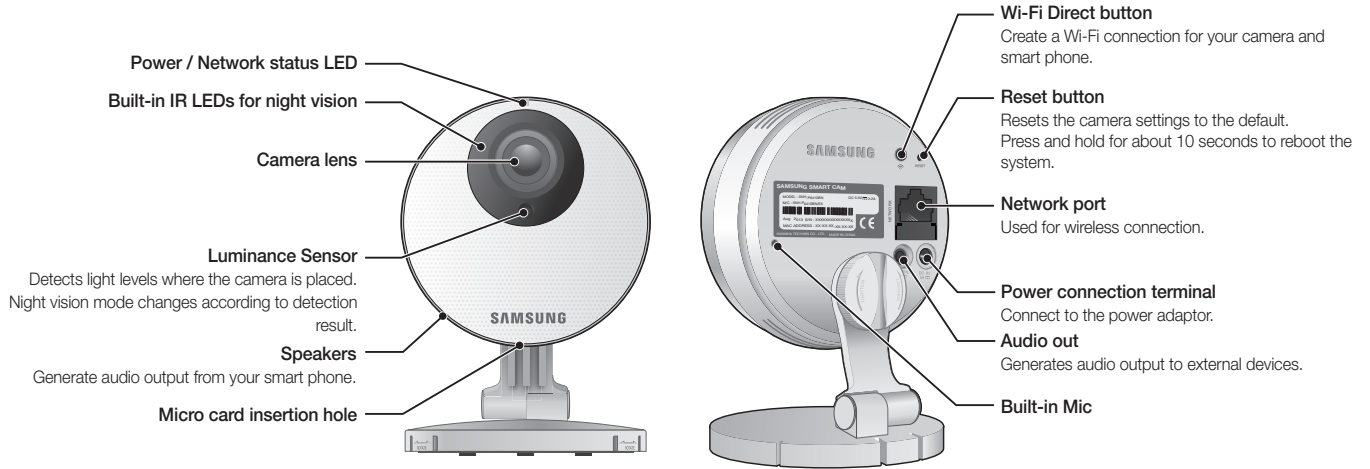


Ferrite Core



- Keep the packing container. You will need the serial number later to register the camera.

Part names and functions

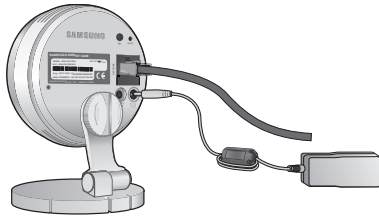


Power Supply

Plug-in the camera power adaptor to the wall outlet and connect the camera as shown.



- Make sure to use the provided power adaptor. If you use an adaptor other than the power supply adaptor provided in our package, the product may not operate properly.
- It will take about 1 min for the camera to boot-up completely.
- When the boot-up is complete, the power LED color will change from red to blue.



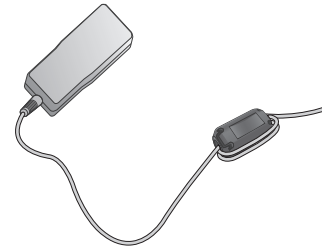
Connecting the Ferrite Core to the power supply adaptor

Ferrite Core can stabilize the power supply.

- Open the Ferrite Core included in the package.



- As shown in the figure, place the ferrite core about 10 cm away from the warning tag of your adaptor and roll it up to show the two lines of power supply outside. Then close the ferrite core.



Network connection

Connect the provided network cable to the camera's network terminal.

For further details on network configuration, refer to "**Network Connection and Settings**". (Page 12)

LED status

LED indicator shows operational status with colors.

Refer to table below for detailed meaning of the LED indicator.

Color	Status
Red	Booting up
Red Blinking	Booting completed / Establishing network connection
Blue Blinking	Connecting to the network.
Blue	Local connection established
Green	Connection to server completed / Normal operation
Purple	Updating firmware

INSTALLATION & NETWORK CONNECTION

Installation

Precautions

1. Install the camera in a place where the Wi-Fi signal can be reached and without interference.
2. Keep it away from humidity such as around the humidifier.
3. Keep it away from direct sunlight, strong light or dust; install it in a place with clear view.
4. Do not install it in a place where there are a lot of obstacles.
5. Keep the lens clean at all times.
Wipe off the dust with a soft cloth.

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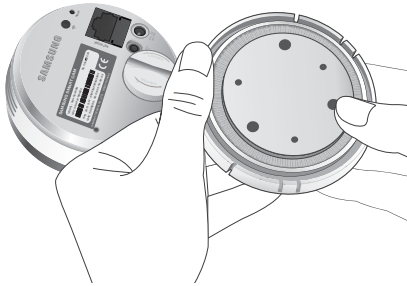
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Wall Mounting Using Double-sided adhesive tape

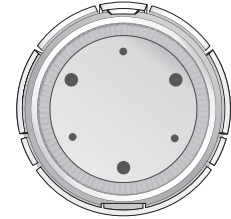
Separating the wall-mount bracket

1. While pulling the button in the back of the bracket, press the bottom of the opposite side of the button to remove the bracket wall.



Assembling

1. Take out the wall fixing tape.
2. Remove the rectangular protective film from the adhesive tape and attach it to the bottom of the wall-mount bracket.



3. Hold the handle for the wall fixing tape, remove the release paper to attach the tape.



- The tape will lose adhesiveness if used once, do not re-use.
- Before attaching tape, clean dust / water / oil off the wall-mount bracket's adhesive spot for better result.

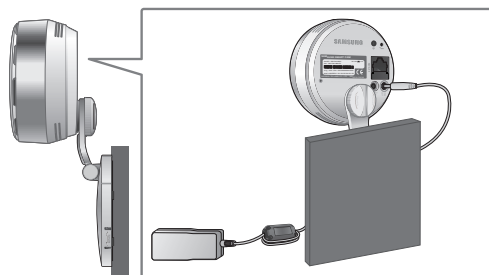
4. Firmly insert the bracket from the opposite side of the button until you hear a clicking sound.



5. Connect the adaptor's plug to the power terminal on the camera's rear side.



- When done, remove the protective film from the lens.

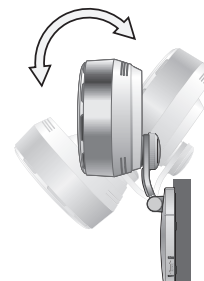


Adjusting the Angle

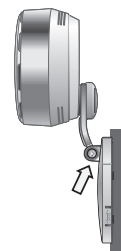
1. Adjust the camera's shooting angle as appropriate.



- Do not put excessive force. Otherwise, it may cause damage to the camera.



2. Open the cap in the area marked in the figure and use a driver to turn the screw clockwise to fasten and fix the recording angle.
3. If you turn the screw counterclockwise, it will be loosened and you can adjust the recording angle then.



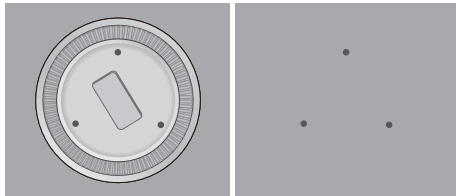
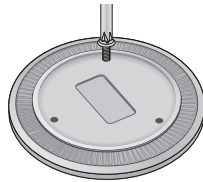
Wall Mounting with Screws



- For more information about step of Separating the wall-mount bracket, refer to "Wall Mounting Using Double-sided adhesive tape".

Assembling

- Take out screws (M3xL20), and anchors (Φ5x25mm).
- On a wooden wall, use screws to fix the wall-mount bracket as shown in the figure. Using a driver on the wall to attach it to, fasten three screws in the three holes.
- If fixing on a concrete wall, use screws and anchors to fix wall-mount bracket. First, mark on the wall as shown in the figure below.



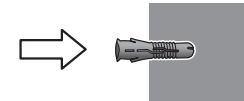
- Use drill bit of 5mm diameter and drill on the marked positions, drill to have 3 cm depth holes. Clean the holes after drilling.



- Be careful not to get injured while drilling.



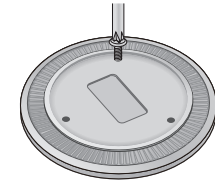
- Insert an anchor for each hole. Fully insert anchors by hammering lightly the anchor head with a hammer/rubber hammer.



- Using a driver on the wall to attach it to, fasten three screws in the three holes.



- For further steps, refer to the instructions for "Wall Mounting Using Double-sided adhesive tape".



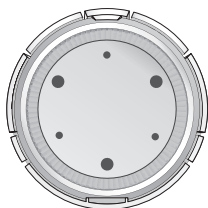
Desktop mounting



- For more information about step of Separating the wall-mount bracket, refer to "Wall Mounting Using Double-sided adhesive tape".

Assembling

1. Firmly insert the bracket from the opposite side of the button until you hear a clicking sound.



2. Using the groove on the bracket wall, rotate the bracket in the desired direction.
3. Connect the adaptor's plug to the power terminal on the camera's rear side.



Network Connection and Settings

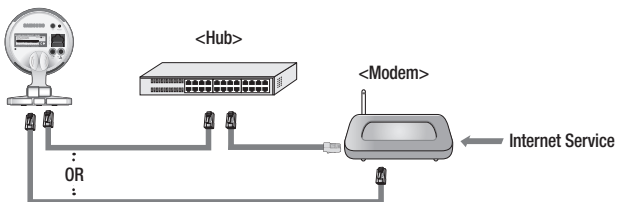
Precautions

- The wireless network access may fail, depending on the communications environment.
- For details about the network settings and password, contact your network administrator or service provider.
- For a specific Internet service requiring user authentication, you may not access the service. If this is the case, contact the service provider.
- Do not access the unauthorized network.
- The farther the distance from the Wireless Access Point, the longer time the network connection may take.
- If you fail to access the selected wireless network, try a different Wireless Access Point to make access.
- For more information about the router or the wireless connection, refer to the documentation of the router or contact the router manufacturer.
- If the camera is connected to a multiple-Wireless Access Point network environment, some video packets may be lost, depending on the network traffic load.
- According to the network policy (blocking UDP) of the service provider, the video transmission can be limited to 7 minutes. For more details, refer to the descriptions on page 21, <Relay Mode>.
- In addition to the above two situations, you may encounter a network delay or interruption due to the network conditions.
- Some hubs can have compatibility issues.

Connecting via network cable

If you do not have a Wireless Access Point, you must connect the camera using LAN cable directly to your home router.

1. When you apply the power, the power status LED is lit red, and it will change to red blinking when the booting is completed.
2. Connect the network cable to the camera and to the home router as shown below.



3. The status LED will become steady blue once the camera is connected to the router. (may take up to 30sec).
If the status LED (blue) is not lit, repeat steps 2 through the end and check it again.
4. The status LED will become steady green once the camera is connected to server.

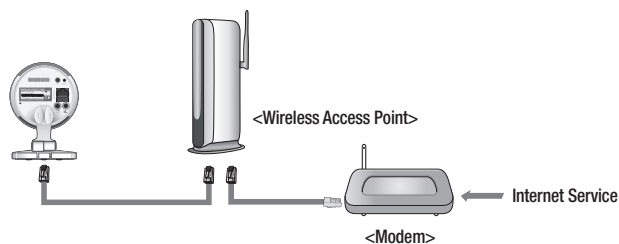


- It is recommended to set the router to DHCP(Dynamic Host Configuration Protocol) server.
If you want to use static IP address, please refer to <Wired Network> on page 23.
- If the router's UPnP is not set, then you might be connected in relay mode.
The settings may differ depending on the connected Broadband Router model.
For more information, refer to the user manual of the applicable router.

Wi-Fi connection setting

If you want to connect a camera to Wi-Fi, first connect the network cable and try to make a connection to the Wi-Fi network.

1. When you apply the power, the power status LED is lit red, and it will change to red blinking when the booting is completed.
2. Use the network cable (LAN cable) to connect the LAN port of the unit to the LAN port of the Wireless Access Point.



3. Register and select the camera according to guide of 03. Monitoring.
4. Set your wireless network environment using the guideline <Wireless Network> on page 24.



- If you want to connect your camera to Wi-Fi, you need a hub that supports wireless networking.
- Using the camera's Wi-Fi Direct function, you can easily make a Wi-Fi connection from your mobile phone.
- When the wireless network settings are completed, remove the LAN cable.
- If you fail to connect to the Internet service, contact the service provider for details.

MONITORING

03

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Registration

Once you register the product with the site, you can monitor the camera video on the PC or laptop computer.

Web browser requirements

Windows	Mac
Windows 7 supported - Internet Explorer 9 or higher (The 64-bit is not supported.) - Firefox	Mac OSX 10.7 Lion or higher is supported - Firefox - Safari

Starting SmartCam

1. From your PC, launch your web browser.
2. Go to <http://www.samsungsmarcam.com>.
3. Select preferred language.
4. Click <Sign up> or <Starting SmartCam>.



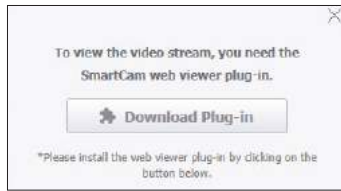
❖ Plug in installation

You need to install your plug in to automatically search for cameras connected to the network and view the video in your camera.



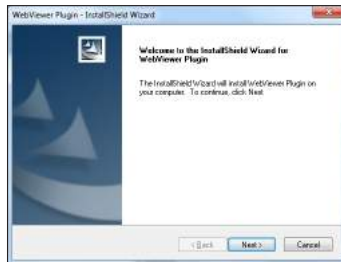
- If you login or click **<Starting SmartCam>** in a PC where the plug in is not installed, the installation message window will pop up.
- When you install the plug in, the web browser will be terminated and you need to launch it again.

- 1) Click **<Download Plug-in>**, run the setup file.



For Windows

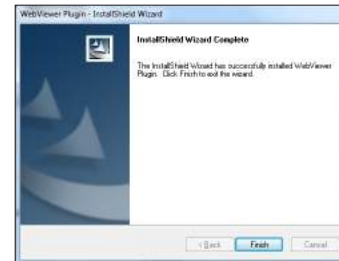
- 2) Click **<Next>**.



- 3) Click **<Install>** to begin the installation.

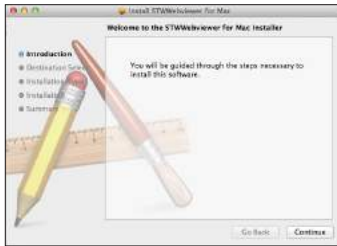


- 4) Installation has completed.

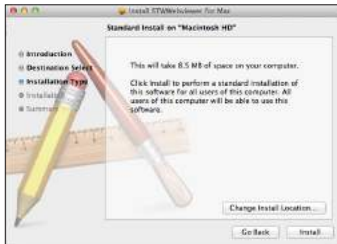


For Mac

- 2) Click <Continue>.



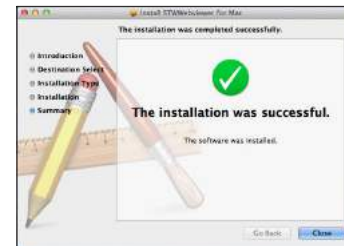
- 3) Click <Install>.



- 4) Enter MAC PC password and click <Install Software>.



- 5) Installation has completed.



5. Enter the requested information, and click <Sign Up>.



- ID : Using alphabetical characters and numbers, make a combination using 8 to 14 letters.
- Password : To strengthen security, create a password with a combination of special characters, numerals and English letters.



- Length and other restrictions of password.

- A combination of English letters/numerals: 10 digits or more
- The password must not be identical to your ID.
- No simple repetitive pattern must be used.
e.g., 1212abab,azxsazxs
- You cannot use 4 or more consecutive letters.
e.g., 1234, abcd
- You cannot use 4 or more consecutive qwerty keyboard letters.
e.g., asdf, 7890
- You cannot use any letter 4 consecutive times.
e.g., !!!!, 1111, aaaa

- Confirm Password : Please enter the password again for confirmation.
- Name : Enter the user name.
- E-mail : Please make sure you enter correct email address as you will have to use the email address to receive temporary ID/password when you lost your user ID or password.

6. According to the network connection and setting, click <Next> when the camera LED turns into green.



7. Select the serial number of the camera to be added from the camera search list.
If the camera is not found, enter the serial number manually.
8. Click <Next>.



- Serial number can be found the label on the side of the packaging or on the rear of the product.
- The computer and the camera has to be on the same network router to auto detect the cameras.

9. Create <Camera Name> and <Camera password>.

10. Click <Next>.



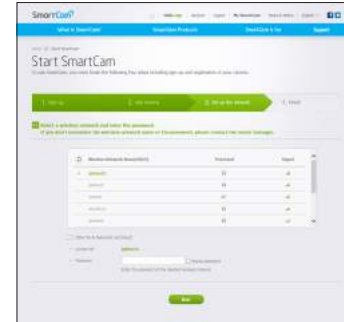
- The camera password is used to block the unauthorized access to your camera.
- Create camera password using alphanumeric characters between 1 to 8 without any space.

11. After adding the camera, click <Yes> in the wireless network setup pop-up window.



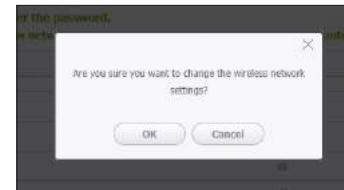
12. Select your Wireless Network from the list.

13. Enter the password of your Wireless Network and click <Next>.



- If your Wireless Network is hidden, select <Other Wi-Fi Networks (not listed)>.
- Select <Display password> to display the password.

14. Click <OK>.



15. Unplug the network cable from the camera and the router.
16. Click <Finish> if the <Finish> button is activated.



17. Once the camera is successfully registered, you can check the camera in the camera list.

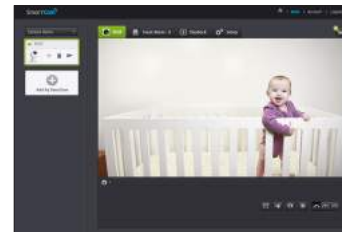


Live Video

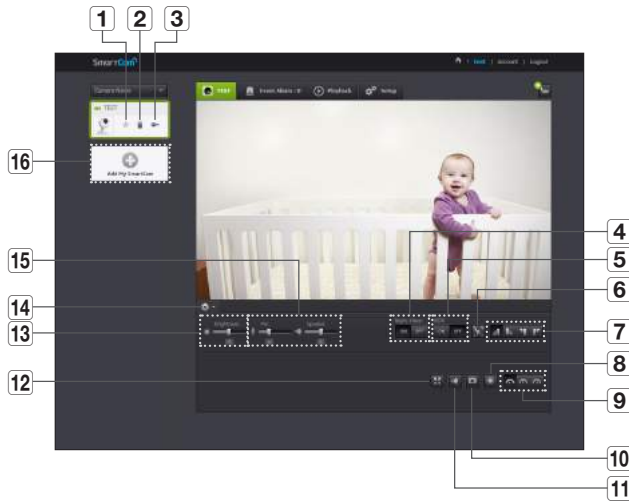
1. Select a camera from the camera list at the upper left hand of the screen.



- ✎
 - The gray icon indicates the camera is inactive so you cannot monitor it right now.
- 2. Enter the camera password and click <OK>.
- ✎
 - Check on <Remember> to access your camera without entering the password next time.
 - If you want to change the Camera password, please refer to <Basic Info> on page 22.
- 3. Live video will be displayed on the screen.





Monitoring options



Item	Description
1 Default Camera	Set the default camera to monitor in the camera list.
2 Delete Camera	Delete the registered camera.
3 Cancel remembering camera password	Cancel remembering the camera password.
4 Night Vision	If Night Vision is set <ON>, it will automatically switch to black and white mode in the dark condition and then the IR lamp will automatically operate. If Night Vision is set <OFF>, it does not switch to night vision mode and it will operate in color mode.

Item	Description
5 WDR	A dark spot will be brighter and a bright spot will be darker to compensate for the backlight.
6 Motion zone setting	It detects motion within the range set by a user.
7 Flip/Mirror	You can flip/mirror the video image.
8 Manual recording	A user can directly save videos in their SD card. <ul style="list-style-type: none"> 30 minute long video is saved. If there is an ongoing event now or overwrite to SD card is not checked, and there is storage space of 10% remaining, you cannot perform manual recording.
9 Network Speed	Set the network speed (low/mid/high). <ul style="list-style-type: none"> If the bandwidth provided by your internet service provider is smaller than the recommended value, then the video might get fuzzy or temporary disconnections or delays in the live video may be caused.
10 Capture Image	Live video is saved as one image.
11 Sound	When enabled, you can hear what's happening around the camera. <ul style="list-style-type: none"> Some internet service providers do not support audio outputs in relay mode.
12 Full screen	The video is displayed on the full screen. <ul style="list-style-type: none"> The system supports Internet Explorer only. If you double-click the screen, the full screen mode is terminated.
13 Brightness	You can adjust the brightness of the screen image.

Item	Description
14 Hide/unhide detailed menu	Click on the [] icon to unhide or hide detailed setting menu.
15 Audio	Adjust the volume of the built-in microphone and speaker of the camera as appropriate. If you set the mic setting to '0', you will not hear the live audio, and it will not be recorded in your SD card. Note that the Two-way audio transfer function is available only with the smart phone application.
16 Add a camera	Click the [] icon to register an additional camera.


❖ Network Speed

Profile Name	Resolution	Frame rate	Recommended bandwidth
Low Speed Network	VGA	20 fps	0.7Mbps
Mid Speed Network	HD(720P)	15 fps	1Mbps
High Speed Network	Full HD(1080P)	30 fps	2.8Mbps



- What is relay mode?
If the network condition is unstable, the camera cannot make a normal connection (P2P), so it will set up a connection in relay mode. In this case, you will see the video for the first seven minutes only.
- Relay mode is added feature where the video from the camera is transmitted to Samsung server then retransmitted to the user's computer.
- If you have trouble connection to the camera, visit "http://www.samsungsmartcam.com", go to support page, and refer to "Troubleshooting" on it.
- It is recommended to use one browser at one time.
- The Night Vision video produces a different visibility according to the distance between camera and subject.

❖ Motion Zone Setting

- 1) Click the <  > icon.
- 2) Drag it to the screen to set the detection area.



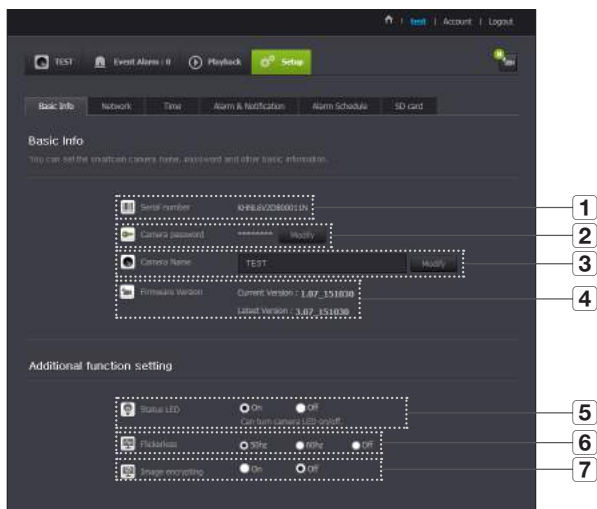
- 3) Click on <OK>.
If you want to delete the set area, click on <Delete All>.



- The <Motion Detection> function needs to be activated in order to use the motion zone function.
- When the motion detection function is activated, any motion will be detected, even if no motion zone is set.
- You can set up to 3 motion zones.

Setup

Basic Info



Item	Description
1 Serial number	You can confirm the serial number.
2 Camera password	Click the <Modify>, you can change the Camera password. Enter the current camera password, and type a new Camera password.
3 Camera Name	Click the <Modify>, you can change the camera name.
4 Firmware Version	You can check the current version and the latest version of your camera S/W.
5 Status LED	You can turn on/off the LED in your camera. <ul style="list-style-type: none">The LED will illuminate when the power supply is reconnected.
6 Flickerless	You can reduce the occurrence of screen shaking due to the frequency mismatches with the neighboring lighting. <ul style="list-style-type: none">If you use the flickerless function outdoors (in a bright environment), image saturation may occur.
7 Image encrypting	This encrypts the image transmitted. <ul style="list-style-type: none">The image encryption function may affect the image transmission function.



- If you change the camera password, you will be logged out and return to the camera password input page.
- Keep the camera password in a safe place as it is used for viewing the live screen of the camera or for changing the display settings.

❖ **Firmware update**

If the currently used S/W is not of the latest version, update it.
If you are using the latest version, then the firmware will not be activated.

- 1) Click <Firmware>.



- 2) Click the < > icon to update the firmware.



- 3) When the firmware update is finished, the camera will reboot.



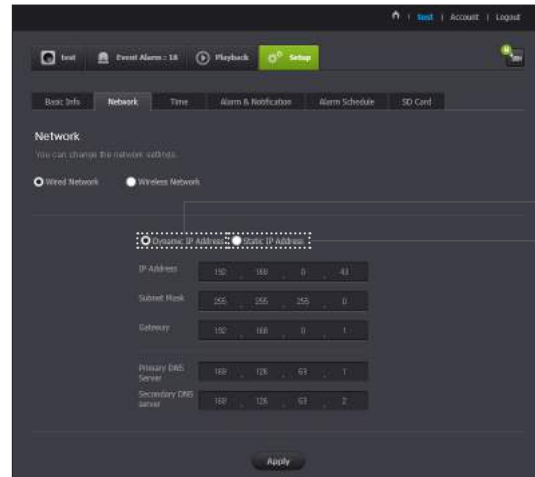
- If you want to update the firmware, it is recommended to use a wired network connection.
- If the power goes off during updates, it may not operate properly.
- The duration of the firmware update depends on the size of the firmware file and the network connection speed.
- When you run Update Firmware, the color of your camera LED changes to purple.



- Do not disconnect the camera from power or the Internet during a firmware update, as this may damage the system.

Network

<Wired Network>



Item	Description
1) Dynamic IP Address	If you select <Dynamic IP Address>, the IP address will be obtained automatically.
2) Static IP Address	You must manually provide the information of: IP address, subnet mask, gateway, DNS server address.



- If any of the manual settings is wrong, the network settings will not be applied.
- If you have both cable and wireless network connections simultaneously, the cable network connection is prioritized.
- If you switch from the current wireless connection to the cable connection, the network will switch to cable connection accordingly.
- For more information about the router or the wireless connection, refer to the documentation of the router or contact the router manufacturer.

<Wireless Network>

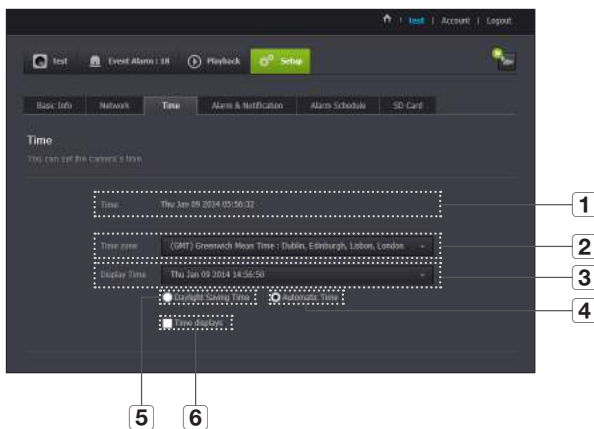


Item	Description
1 Wireless On/Wireless Off	You can select to activate or deactivate the wireless network connection.
2 AP (Access Point) list	You will see a list of APs (Access Point) available. Select a desired one from the list of APs (Access Point).
3 AP (Access Point) password	If you select a secured AP (Access Point), you must enter the password before you can access the network. For the password, contact your network administrator.
4 Hidden SSID	If your SSID is hidden, select the type of security you have. Enter the name of the SSID and the password.



- If you select a non-secured AP (Access Point), you just can access the network without providing a specific password.
- If you entered a wrong password, you cannot access the network whatsoever.
- When the wireless network settings are completed, remove the LAN cable. If you do not remove the LAN cable, the wireless network will not be available.

Time

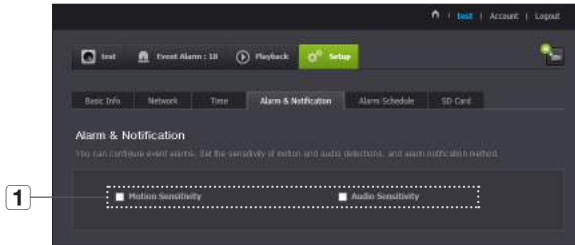


- The time will synchronize with the NTP(Network Time Protocol) server automatically. For this, Internet connection is required.
- You need to set the timezone correctly to obtain the exact time setting.
- The time displayed without Internet connection may not be accurate.

Item	Description
1 Time	Confirm the camera's time.
2 Time Zone	Select your region.
3 Display Time	Select the time format displayed in time setting.
4 Automatic Time	It sets camera's time automatically.
5 Daylight Saving Time	Check this option if you live in a country or region where DST(Daylight Saving Time) is applied.
6 Time to show	Live screen displays the time.

Alarm & Notification

Camera has ability to send event notifications when motion or audio is detected.



Item	Description
1 Alarm notification	<p>You can set motion or audio alerts. Sensitivity level can also be set. The higher the sensitivity, the more accurate motion and audio events can be detected.</p> <ul style="list-style-type: none"> When an event occurs, if you want to send alerts to Picasa/Gmail, first log into your google account.



- In the following case, it may fail to derive the proper results for basic events and motion detection.
 - The object color or brightness is similar to the background.
 - Multiple movements continue occurring at random due to a scene change or other reasons.
 - A fixed object continues moving in the same position.
 - An object hides other objects behind.
 - Two or more objects overlap or one object divides in multiple portions.
 - A moving object comes close to the camera.

<Gmail> Notification

The event alarm is sent through Gmail.

- Select the Google.
- Enter your Gmail address and password.
- Select <Use> of "Send alarms".
- Enter your email address to receive the notification e-mail and click <Add>. Now, the receiver full email address will be shown in the List Box. If you want to register more than one email address, you can just repeat the same procedure.
- Click <Save>.

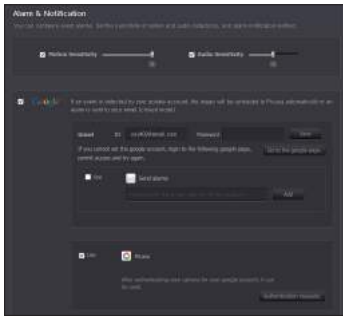


- If your Google email ID/password are saved, only check "Send alarms".
- If the email address for the recipient entered is incorrect, event alerts will not be sent.
- Even if you entered a correct google account ID, if the ID/password confirmation pop up window appears, click on <Go to the google page.> and check the google account.

<Picasa> Notification

Automatically uploads a image to your private Picasa account.

1. Select the Google.
2. Enter your Gmail address and password.
3. Click <Save>.
4. Check <Use> of Picasa.
5. Click <Authentication requests.>
6. Sign in with your Google account.
7. Click <Access>.
8. Copy the code on the authority request page, then click <Apply>.



- If your Google email ID and password are saved, check the use of Picasa only.
- Refer to the policy of Picasa for the maximum number of uploaded images.

Push alarm Notification

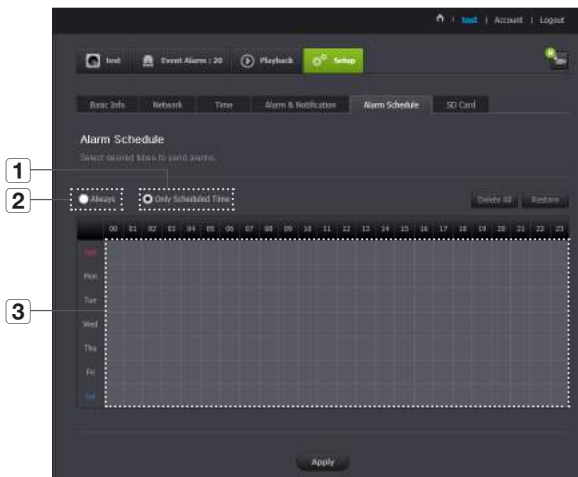
The push alarm is provided through the web viewer and mobile app in which the camera is registered.



- If you activated Use, then image links uploaded into Picasa will be sent to the friends listed in real time.
- Push alert list shows the list of IDs of users who registered cameras. When an alarm occurs, the web site will send push alerts to each smart phone.

Alarm Schedule

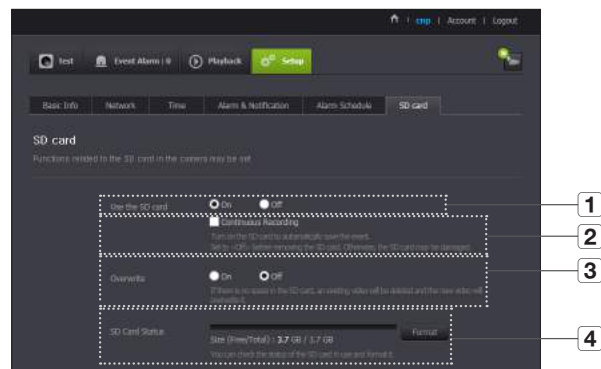
When the user designates a desired day and time, the alarm works only at the designated time.



Item	Description
1 Only Scheduled Time	Alarm function will only operate for the time/day designated by the user.
2 Always	Alarm function always operates.
3 Motion time settings	You can click and drag to set the motion time in hours. Example) When you select 00, an event will occur and remain from 00 to 00:59

SD card

When an event occurs, it is saved in an SD card.



Item	Description
1 Use the SD card	If you set motion/audio, video will be automatically saved in your SD card.
2 Continuous Recording	Saves the video without being interrupted by events that may occur.
3 Overwrite	If the SD card capacity is insufficient, it will start overwriting the oldest data. <ul style="list-style-type: none"> When there is storage capacity of 10% remaining, the top notification window will show an alarm.
4 SD Card Status	Check the remaining capacity of your SD card and delete all the data.



- Turn off the camera power or set it to **<Off>** before removing the micro SD card. If you fail to do this, the data in the micro SD camera may be damaged.
- Please note that the content of a micro SD card used for other purposes may be deleted when it is mounted in the camera.
- The following micro SD cards are recommended for this camera.
Manufacturer : Sandisk, Transcend
Class 6 or higher, MLC type
- Micro SD card of max 32GB is supported and a FAT32 file system is supported.
- It is recommended to use the micro SD card after formatting it. Regularly formatting the memory card will help extend its life.

Event Alarm

You can check the event alarm that occurred.



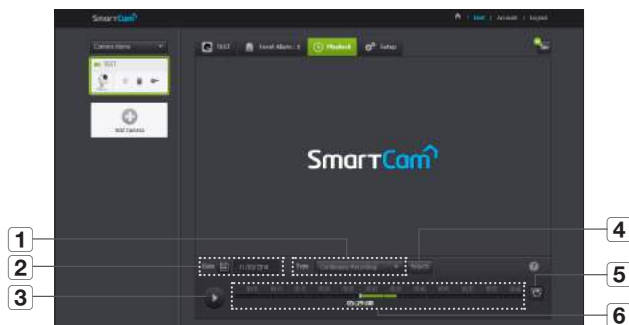
Item	Description
1 Delete by dates	Delete all the event alarms on the date.
2 Image displays	Select and click on the desired event. You can view an image. <ul style="list-style-type: none"> Image is displayed only if Picasa is activated.
3 Delete All	Delete all the event alarms for thirty days.
4 Display Events	Displays the number of events occurred in the 30 day list.
5 Arrange by types	Arrange the event list by event types.



- Even if you delete an event in the event notification page, the Picasa event will not be deleted.

Playback

You can play the video recorded in your SD card.



Item	Description
1 Type	Set the event type to search for during the search period.
2 Date	Set the search date for the data saved in your SD card.
3 Play/pause	Play and pause video.
4 Search	Perform event searches.
5 Refresh	Renew the events displayed in timeline.
6 Timeline	Use the timeline to play the video in the desired time.

Information



My Account

SmartCam®

What is SmartCam? SmartCam Products SmartCam in the Support

Home > Account > 00170016

Account

Would you like to modify your information?
Please update the following information to update your profile.

- User ID: f8e0cp125
- Current Password:
- New Password:
- Confirm Password:
- Name: END
- E-Mail: gungjung_ban@f8e0cp125
- Delete Account:



- If you want to change the member information, click on **<Account>**. Select the item (password, or email address) and enter your information.

Support

You can download the Samsung SmartCam mobile app and user guide.

SmartCam®

What is SmartCam? SmartCam Products SmartCam in the Support

Home > Support

Support

What is SmartCam? SmartCam Products SmartCam in the Support

FAQ

Search Page

1. I forgot my user ID/ password.

2. I failed to connect wirelessly with the camera.

After I logged in, I failed to register the camera.

The camera is registered, but it is not ready for network connection.

Video will not be played in real time.

The camera video is not submitted to YouTube.

The capture images to the camera will not be submitted to Picasa.

Notifications from the camera is not transferred to Twitter.

The video from the camera is not transferred to YouTube.

We cannot respond from the video.

We cannot respond to the camera.

Forgot my Camera password.

I want to change my password and I've reset address.

Camera will be connected to a relay email.

3. HOW TO USE: Why? Channel & Support

Easy guide

Camera Installation & Registration Guide

Mobile App

Samsung SmartCam

QR Code

User Manual

- Quick Start
- User Guide
- Mobile Control Panel
- FAQ (Frequently Asked Questions)
- Troubleshooting

APPENDIX

04

Specifications

Specifications
Product Appearance

Troubleshooting

Specifications

Specifications

Item	Description
Video	
Imaging Device	1/2.8" 2M CMOS (1080P Support), SONY, FHD
Effective Pixels	1,944(H) x 1,224(V)
Scanning System	Progressive
Synchronization	Internal
Low Light Performance	0.3Lux(Color), 0Lux(Black/White)
Lens	
Focal Length (Zoom Ratio)	2.8mm
Angular Field of View (D/V/H)	128°/ 62°/ 111°
Min. Object Distance	400mm
Focus Control	Fixed
Lens Type	Barrel type

32

32

35

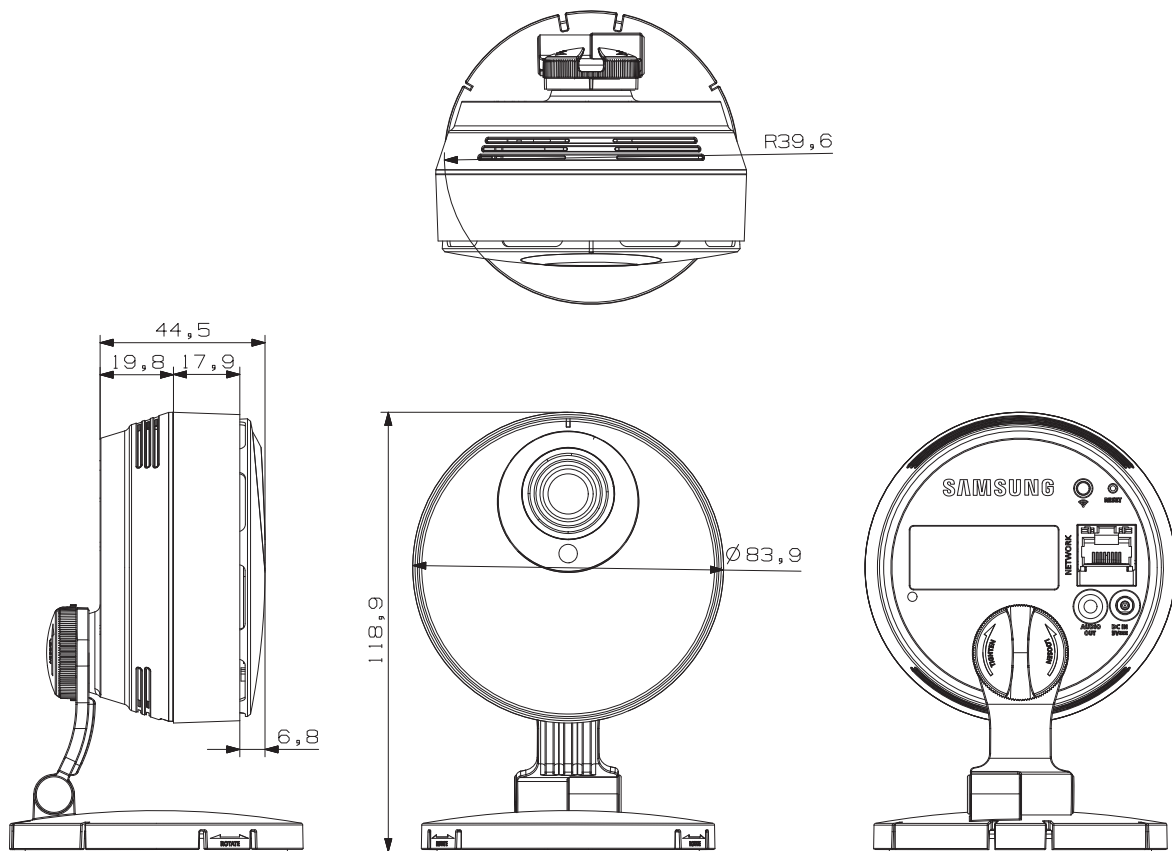
36

Item	Description
Video Analytics	
WDR	Support (2M@15fps)
Motion Detection	Support (Motion zone : 3ea)
Audio Detection	Support
Operational	
Install	Easy Set-up
On Screen Display (Web Browser)	Support
Day & Night	True D/N Filter
Night vision	IR-LED, 5M
OS	Linux
White Balance	Auto
Digital Zoom (viewer support)	4X (Mobile), 10X (Web)
Digital Pan/Tilt (viewer support)	Support
Flip / Mirror	Support
Booting time	Max 1 minutes
Network	
Ethernet	RJ-45 (10/100BASE-T)
Wireless	Wi-Fi 802.11 a/b/g/n (Dual-band)
WPS (Wi-Fi Protected Setup)	Not Support
Wi-Fi Direct	Support (mobile)
Video Compression Format	H.264, MJPEG

Item	Description
Resolution	1920x1080, 1280x720, 640x360
Max. Framerate	H.264, 1920x1080 30FPS
Video Quality Adjustment	H.264: Compression Level MJPEG : Quality Level Control
Bitrate Control Method	H.264 : VBR with CAP MJPEG : VBR with CAP
Streaming Capability	Multiple Streaming (Up to 4 Profiles)
Audio I/O	Support(Audio output, Mono jack)
Audio Compression Format	G.711, G.726
Audio Communication	Two-way Audio (Built-in Microphone, Speaker) Half Duplex with AEC
Protocol	TCP/IP, DHCP, SMTP, DNS, RTSP, RTCP, RTP, HTTP, TCP, UDP, STUN, TURN, XMPP, SIP, uPNP, SNTP, IPv4, ICMP, Bonjour
Security	SSL (AES 256bit)
Streaming Method	Unicast
Max. User Access	5 users at Unicast Mode
Memory Slot	microSDXC (FAT32)
PC OS Support(Web viewer)	Windows7, Window8(Only Desktop UI) or higher Mac OSX 10.7 or higher
Mobile OS support(Mobile viewer)	Android OS : 2.3.3/4.0/4.1/4.2/4.3 iOS : 5.0/6.0/6.1/7.0

Item	Description
Fun	
Audio recording	User selected music record play - 3 Lullaby songs saved - User voice recording feature support
Environmental	
Operating Temperature / Humidity	0°C ~ +40°C (+32°F ~ +104°F)/20% ~ 80% RH
Ingress Protection	Not Support
Electrical	
Input Voltage / Current	5V DC / 2.2A
Power Consumption	Max. 11W
Indication	1 LED (Power, Status, Link)
Mechanical	
Color / Material	White/Silver
Dimension (WxHxD)	83.9 x 118.9 x 79.3 (bracket), 44.5/36.5 (body)
Weight	293g

Product Appearance



Troubleshooting

If you encounter a problem with your system, see the table below to solve the problem as quickly and easily as possible. Please follow the instruction below:

Problem	Action
I forgot my user ID/ password.	<ul style="list-style-type: none"> - Move to "Log-in page → Forgot your ID/Password?", and enter the registered e-mail address to which we will send you the user ID and/or a new password. - It can be spammed out depending on the policy of the email server. After logged in, it is advisable to change the temporary password provided.
Camera is not connected to the wireless hub.	<ul style="list-style-type: none"> - If the camera's wireless internet indication LED goes off too often, then it means that the camera installation location is not optimal for the wireless internet environment, so in this case, locate the camera close to the wireless hub and try to connect again. - Check the password for the wireless hub and try again.
After logged in, I failed to register the camera.	<ul style="list-style-type: none"> - Check that the serial number entered matches the label on the back of the camera. - Enter the correct password for the camera registered again and try to register the camera again. - Check the camera LED to see if it is green. If not, then check the network connection. - If you are still unable to register the camera after this, then reset the camera to factory settings and begin again. (If you want to reset to factory settings, press and hold the initialize button on the back for 10 sec. Once initialized to factory settings, the camera will be restarted.)

Problem	Action
The capture images in the camera will not be uploaded to Picasa.	<ul style="list-style-type: none"> - Move to Setup → Alarm & Notification and adjust the sensitivity as necessary. - From the Alarm & Notification setup, configure the Picasa notification settings. (See page 27 of the manual) - Picasa has different service policies according to the country. The policy for your country may prohibit uploading to Picasa. Please first check the Picasa policy for your country. - According to the Picasa policy, it may limit the uploading size. Check the allowable free space of your Picasa account, and if insufficient, delete the exiting images.
The video from the camera is temporarily lost.	<ul style="list-style-type: none"> - The video from the camera can be delayed according to a network delay. Please check if the camera is installed in a place of proper wireless Internet communications.
No sound is output from the video.	<ul style="list-style-type: none"> - Click the Voice icon in the video playback page, or check if the voice is turned On in your smart phone app. - Some internet service providers do not support audio outputs in relay mode.
I forgot my Camera password.	<ul style="list-style-type: none"> - You must create a new camera password. - Press the initialization button on the back of the product for more than 10 seconds to reset to factory settings. - After factory initialization, when you access the camera, you can reset the password for the camera.
I want to change my password and/or email address.	<ul style="list-style-type: none"> - After logging in, click on the <Account>. Select the item (password, or email address) and enter your information.
Camera will be connected in a relay mode.	<ul style="list-style-type: none"> - Check the UPnP setting of the router. - Using a network upload speed of 500Kbps or higher is recommended. - Depending on the policy of your service provider, you can access in relay mode.



Samsung cares for the environment at all product manufacturing stages, and is taking measures to provide customers with more environmentally friendly products. The Eco mark represents Samsung devotion to creating environmentally friendly products, and indicates that the product satisfies the EU RoHS Directive.



Correct Disposal of This Product

(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



SALES NETWORK

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Surrey, UNITED KINGDOM KT16 OPS

Customer support : 00800-8010-8022

www.samsungsecurehome.eu

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject 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.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IEEE 802.11b or 802.11g operation of this product in the USA is firmware-limited to channels 1 through 11.

If the device is going to be operated in the 5.15 - 5.25 frequency range, then it is restricted to indoor environment only. This device meets all other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Industry Canada Statement

This device complies with RSS-247 of the Industry Canada Rules. Operation is subject 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. Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Industry Canada Caution

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; (ii) high-power radars are allocated as primary users (i.e. priority users) of the bands 5250- 5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

(i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur a n de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux; (ii) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Industry Canada Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.