



My handy Smart CCTV



Orange Box 400/800
User Manual

■ Legend

- When this manual is lost, you can visit <http://myorangecam.com> for download.
(In order to see PDF documents, your PC has to be with Adobe Reader installed available at <http://kr.adobe.com>.)
- The appearance designs and dimensions of the product may be subject to change without notice to consumers, to ensure product quality.
- Non-authorized use or duplication of all or parts of this User Manual without permission is prohibited by law.
- We do not guarantee any accident caused by data loss, and it is recommended to back up your important user data.
- Some parts of this User Manual contains the specifications of a product you have not purchased, including this product.
- As a video recording device, this product may be used to help case resolution as supplementary means, but not as main. And we are not obliged for any responsibility for malfunctions or other insufficient functions of this device at any accident or crime.
- This product is equipped with shock-sensitive HDD. External shock or movement may cause malfunctions. So, make sure to disconnect the power when you transport it.
- This product may generate heat from itself. Staking more than two products or placing this product on other device with heat generated, it may cause failure or malfunction. Avoid direct sun light and install it at a well-ventilated place.

For further questions or warranty service, visit <http://myorangecam.com> or <http://orangecam.net>.

* Orange Box 400/800 Basic components (Camera separately sold)



DVR body box
(Camera separately sold)



Product body(DVR)



Power adapter



User Manual
(This Manual)

* Orange Cam SET package (Orange Cam 400/800) components



Basic set package including camera



Product body(DVR)



Dome infrared camera



2 power adapters



Video & power
Connecting cable

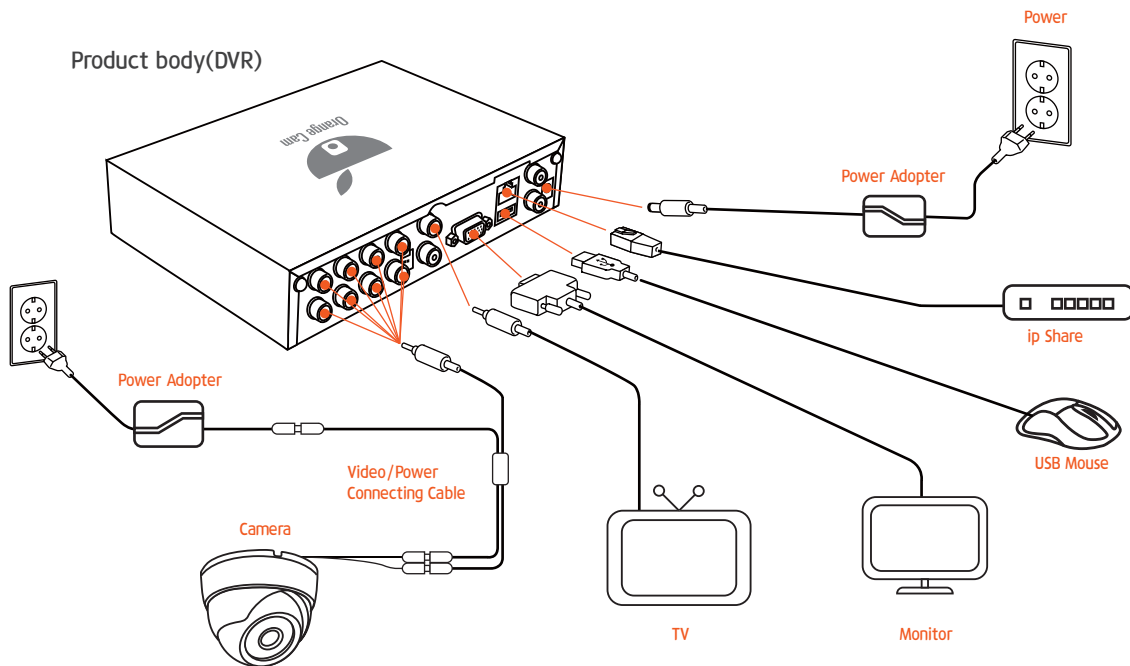


USB Mouse



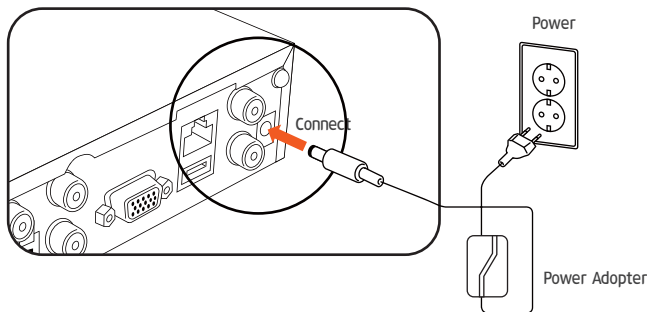
User Manual
(This Manual)

■ How to install - Simple view



1. Run DVR and connect with Internet

1 Turn on power

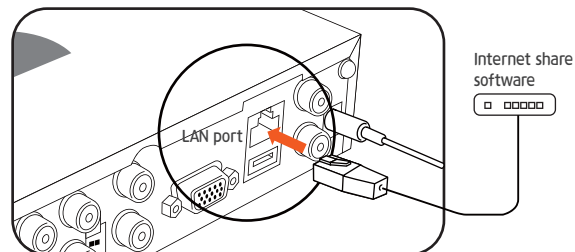


- Connect with power adapter, and power will turn on

power Connect with the adapter to power socket, and plug it to the position as shown in the Fig., and power will automatically turn on.



2 Connect with Internet



- Connecting the LAN cable and it will be connected with Internet.

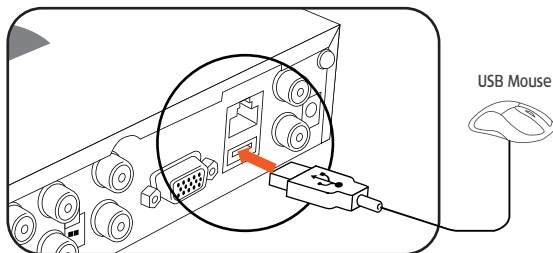
As DVR is connected with Internet, you may now use the web service and mobile phone service.

(However, to connect with Internet, you need to call Internet service provider to apply for the service.)



2. When you use monitor

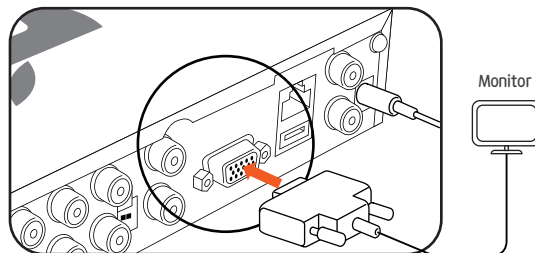
1 Connect with the mouse.



- Now, you can control the screen with the mouse.

Plug in the USB terminal of mouse into position shown as in Fig., you can control DVR with mouse. With a mouse, you can use VGA monitor (D-SUB) or TV display.

2 Connect with monitor.



- With monitor, you can watch the screen

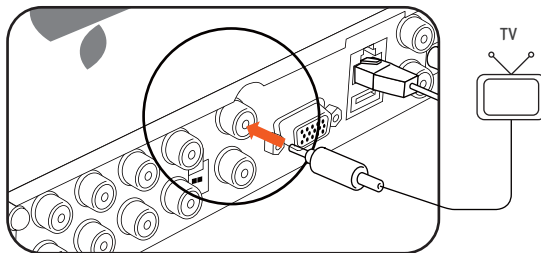
Plug in the VGAmonitor(D-SUB) cable position shown as in Fig., you can display the screen with monitor and you can directly control real-time monitoring and DVR. (Even without a computer, a monitor will do for this purpose.)



* Monitor cable for sales separately

3. If you use TV

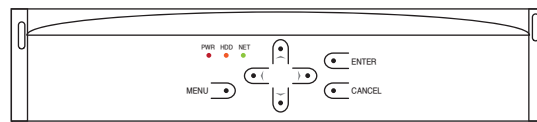
1 Connect with TV.



- You can watch screen with TV.

Plug in the video cable to the TV external input terminal and the DVR TV display terminal as shown in Fig., you can display the screen with TV and directly control the real-time monitoring and the DVR.

2 Change Output



MENU  +  CANCEL TV or VGA Monitor

- Shift VGA and TV

However, as the VGA display is basic setting, you have to, when connecting with TV, shift VGA and TV, in order to apply TV display.

4. Connect with camera

1 Check the components to connect with camera



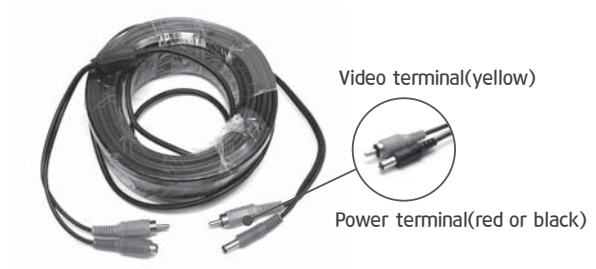
Camera



Power Adaptor



High-strength adhesive sticker



Video terminal(yellow)

Power terminal(red or black)

Video & power Connecting cable

4. Connect with camera

2 Assemble the components to connect with camera

One! video/power cable connection



According to matching colors, connect [video/power cable] to camera and power adapter both, for assembling.

Two! Attach the high-strength adhesive sticker onto the bottom of camera.



Attach high-strength adhesive sticker on to the bottom of camera and then stick the camera to the position you want to install.

Hint. Wait a minute!

Did you install the Orange Cam app?

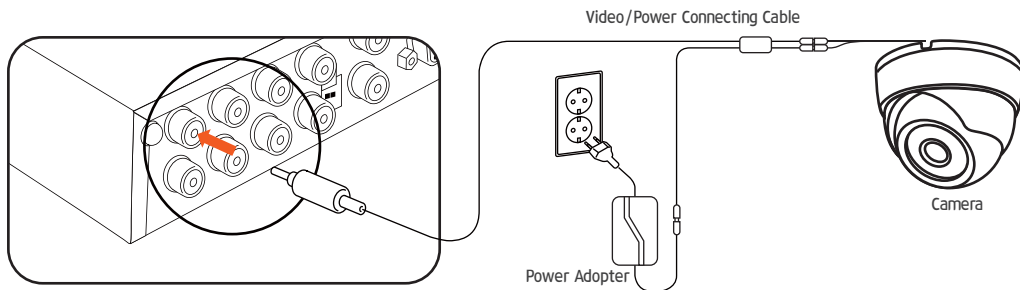
If you have connected the DVR with Internet,

It is recommended to first install the Orange Cam app for smart-phone before you install the camera.

Connecting DVR to Orange Cam app enables you to easily install a camera, watching the appeared parts and angles during the installation.

4. Connect with camera

3 Connect the camera to DVR



Connect the video/power cable to camera and DVR, both

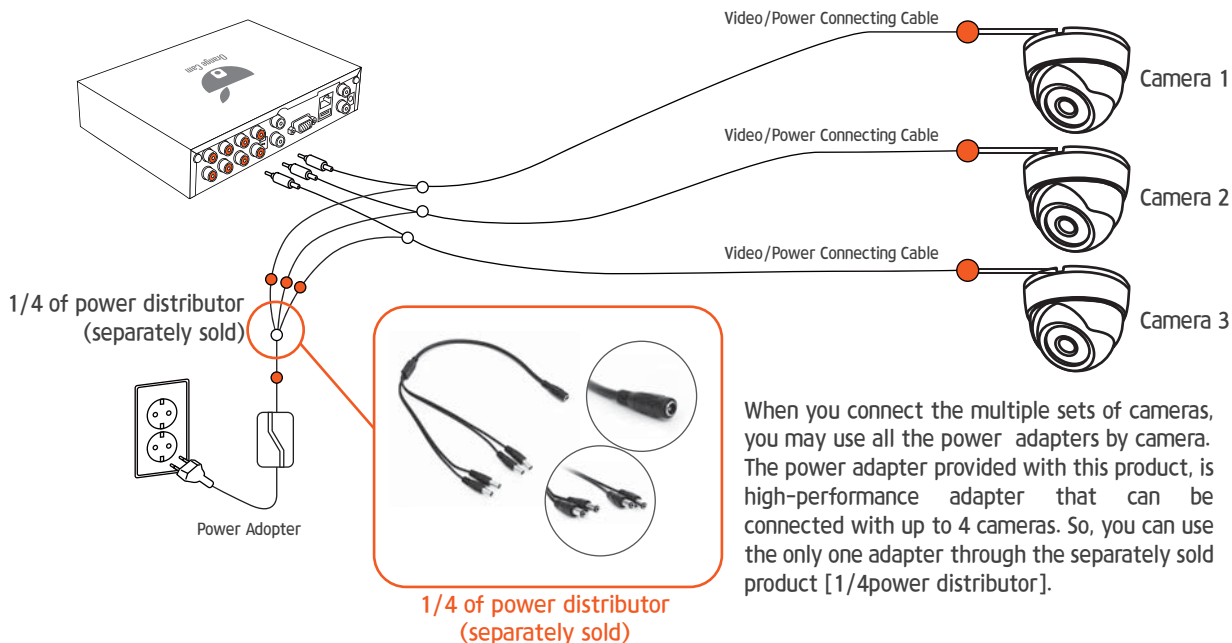
If you have purchased Orange Cam package or bought a camera separately, use the [video/power cable] enclosed together to plug in the video terminal(yellow) to the position shown as in Fig. power terminal(black). Then, connect the power adapter to give power to the camera, to send the video to DVR body starting monitoring service.

Wait a minute!

A camera will be in normal operation status, by only connecting the camera to [video/power cable] and using the separately provided power adapter for a camera for power supply.

5. connect the multiple sets of cameras

4 When you connect the multiple sets of cameras to DVR



■ Main function

My Cam



Your registered smartphone(mobile) real-time monitors the purchased Orange Cam, supporting up to 60 users's access to smartphone simultaneously.

Emergency. Friends



At dark night, what if you are followed by stranger? Or what if you faced intrusion at home alone? In such dangerous situations, this service is like your guardian angel who protects you

Cam. Friends



You can share your registered real-time video(Orange Cam CCTV video) with your friends. This is a service differentiated, the real-time LIVE CAM social community, compared to conventional recorded UCC.



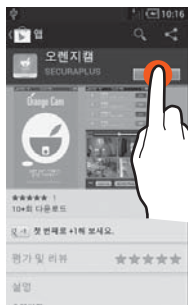
1 Start Android Market



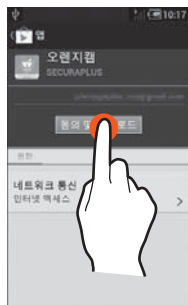
2 Orange Cam search



3 Select Orange Cam



4 Install app



5 Agree & download



6 App installation completed

- Start Play Store from your smartphone
- Press on search button to input Orange Cam and search.
- When results related to search word appear, continue by pressing on "Orange Cam" app.
- When the app information screen appears, press on the Install.
- When you are asked again about whether to install, install by pressing Accept and Download.
- The app is downloading and installation. Please wait.

Normally, the download processing takes different time depending on communication status. If it is not WiFi mode, data communication fee may occur. Automatic update is permitted as basic settings. If you do not want it, unselect it and update manually as necessary.



1 Start Appstore



2 OrangeCam search



3 install app



4 Log-in

- Start App Store from iPhone
- Press on the search button to input the Orange Cam and start the search.
- When the results related to search word, press on the "Orange Cam" app to start it.
- When the app information screen appears, press Install.
- Enter your account information to log in.
- The app is downloading and installation. Please wait.

Normally, the download processing takes different time depending on communication status. If it is not WiFi mode, data communication fee may occur. Automatic update is permitted as basic settings. If you do not want it, unselect it and update manually as necessary.

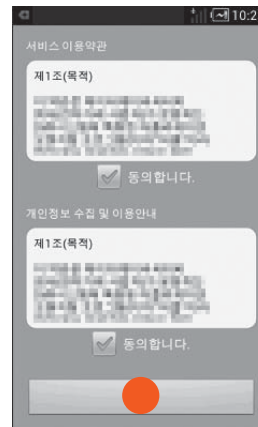
1 Start app



2 screen loading...



3 Accept the Terms of Use and policy

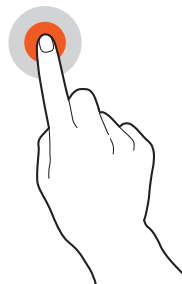


- Start the icon on the Orange Cam App from your smartphone.
- Agree to Terms of Use and privacy policy and press on Continue.



Touch

Touch motion is preparative motion mainly to select a button or a screen, or to enter text



Long touch

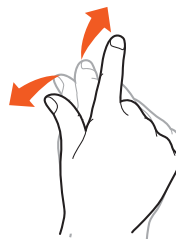
Long touch and press starts the hidden functions. Long touch and press on the registered MyCam list enables you to modify or delete information



Finger motions

Finger motions are used mainly change channels to other screen when you move between screens or video screens.

For video replay, you can make use of it as rewind/forward functions.

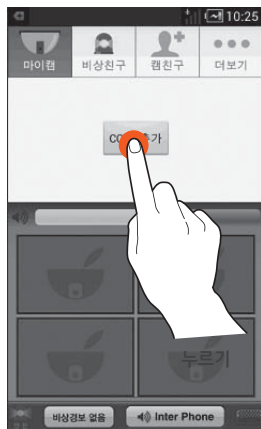


two fingers

With your two fingers, you can Zoom in+Zoom Out a screen, or do the same things via a camera with zoom-out functions, by pinching open and close motions.

This feature is not currently implemented.

1 MyCam(CCTV) registration



2 From View More, Register



3 Enter your DVR ID+Password



- Start by pressing on Register MyCam from 'Register CCTV registration' button on empty screen or 'View More' Menu.
- DVR name : Make your own unique name to enter. (This is modifiable after registration completed.)
- DVR ID : Enter the product's unique serial number (10-digit).
- Password : Enter the password. The initial password is recorded on the bottom of DVR. (6-digit) (Password is modifiable on the DVR management screen.)



1 Select MyCam



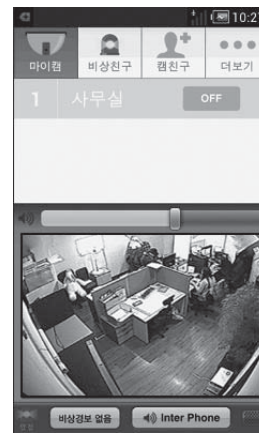
2 Connect Orange Cam



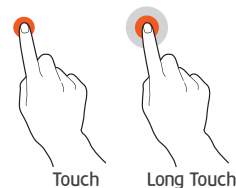
3 View All



4 view Zoom in



- Press your registered MyCam to see "Connecting to Orange Cam..." message, and then Orange Cam you installed will appear. (4 screens for 4-channel product, 8 screens for 8-channel product).
- 'Hold your touch on the registered MyCam list, you can modify or delete information.
- Press one of the 4 screens, and it will zoom in to big screen.



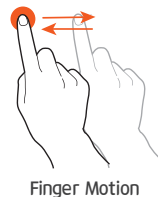
1 Shift between screens

2 Control from Zoom in view screen

3 View screen in bigger size



- Hold pressing on the appeared screen and move your fingers to the left and right to other screen.
- Lay smartphone horizontal to view screen in bigger size.
(To the contrary, in order to select other lists, make the 폰 stand again.)



1 Zoom in



2 Screen Zoom



- With your two fingers, you can Zoom in+Zoom Out a screen, or do the same things via a camera with zoom-out functions, by pinching open and close motions.



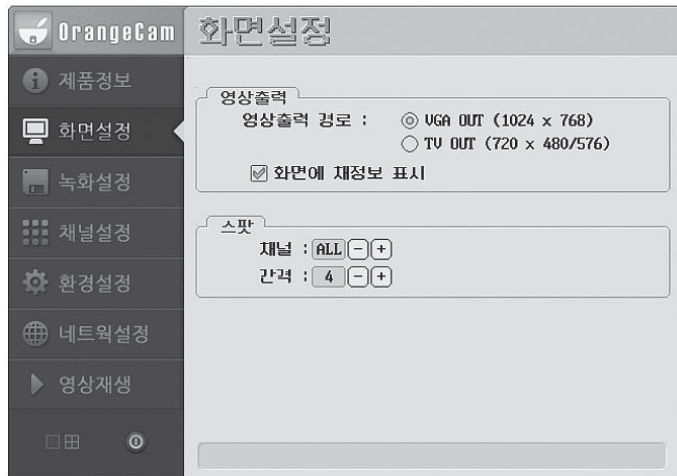
Two Finger

You can watch this screen by connecting monitor or TV with DVR

- **Main item** Recording setting/motion sensing/video backup p. 24
- One-touch firmware update p. 25
- Screen(TV/VGA) display setting p. 22
- Recording schedule management p. 23
- Change password/error alarm p. 25
- Recording video search/replay p. 27.28
- video service share setting p. 26



- **Product :**
Product model name (codec information to use)
- **S/W Version :**
Installed firmware version
- **H/W Version :**
Warranty Service period version
- **Mac Address :**
Network Identification number
- **Serial No. :**
Product number which is used as ID at access via Internet or smartphone



● Video display :

Designates monitor display.

You need to select either VGA OUT or TV OUT. VGA Monitor OUT is set as basic.

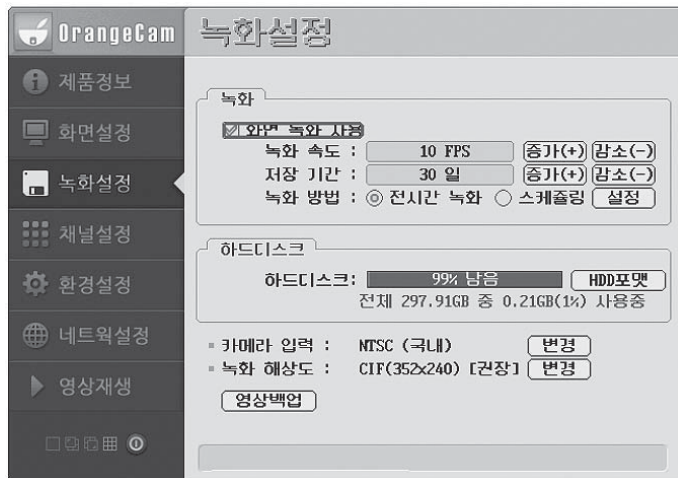
If you want TV display, just select TV OUT.

Cancel the select 'Show information on screen', and only video will display on screen, without show motion, Remote accessing..., Recording... and icon.

● Spot :

This is used to additionally monitor the channels input, other than monitor display.

You may make the channel sequentially repeated by designating time(seconds) to interval, or you may only fix one channel(if interval is 0).



● To use screen recording :

Set the recording speed and storage period. The recording speed refers to the number of images per second (fps), supporting up to CIF 30fps, but 10fps is recommended. The recording resolution is D1, HD1 (1/2 size of D1) and CIF (1/4 size of D1). For D1 resolution, up to 7fps is supported.

The storage period can be set. The storage period may be limited by HDD capacity.

When the storage period exceeds or HDD capacity is short, the longest dated ones are automatically deleted.

● Hard disk :

For hard disk, only one SATA is available, but storage period will be later expanded properly for external storage. HDD format is used when new HDD has been added or when you are to clear previous data. Execute the HDD format after re-booting one time.

● Camera input :

A camera is divided into NTSC and PAL depending on country. Korea, Japan and U.S. adopt NTSC, while China and Europe adopt PAL. NTSC and PAL cameras cannot be used together for one DVR.

● Video backup :

This is used to correctly save the recorded file onto internal HDD, with USB storage device.

For backup USB, the file format is supported up to FAT32 due to the length. Many USBs in the market are FAT16 (or FAT). These should be formatted again to FAT32. You may also format with FAT32 on DVR conveniently. (Menu > recording setting > Video backup > USB format)



● Visual/Audio recording

You may select whether to record per channel, only using one channel for audio recording.

During recording, Zoom in No. 1 channel for real-time audio monitoring. (Double click on No. 1 channel video, with mouse).

However, it should be connected with mic and speaker.

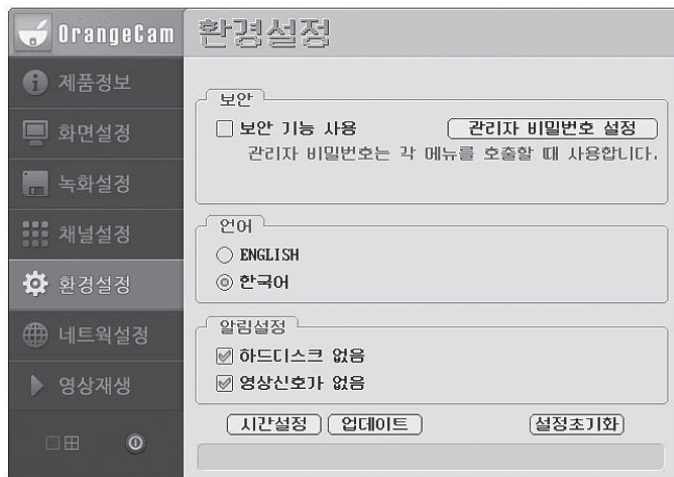
● Motion/warning beep

Through motion area setting, you can create motion event within specific area you may want.

Basic settings are the entire area. Motion event provides convenient function when you replay and search the data. It is not recommended to select 'Save only video with motion' option within 'area setting' because video might be disconnected. Motion sensing sensitivity can be adjusted in 3 steps.

● PTZ advanced setting

This function controls the camera connected with 485 port. You are able to give the camera the command in PELCO-D method, Rotation left/right, Tilt up/down, Zoom in/Zoom Out. Make sure to check if there is +/- polarity before connecting



● Security :

-Security functions may be a little inconvenient after setting. Please set the Security, because other persons may replay, delete or change the DVR data.

-Administrator password setting :

When 'Security function' is checked, protect any access to menu screen by setting the Administrator Password. The first password is seen on the bottom of the product. When you want to change or remotely control DVR setting, you can ask administrator password다. Change the initial password for security purpose. If you forgot such set password, you will need to only initialize. How to initialize: From Menu button + up/down/right/left button, press on Up button for 5 seconds. You can hear 'beep' sound to initialize. Other settings are initialized together.

● Language : Select language to use

● Alarm setting :

This function is to request a user to check when there is no hard disk or video signal. Alarm goes off at the interval of 1 second.

● Time setting :

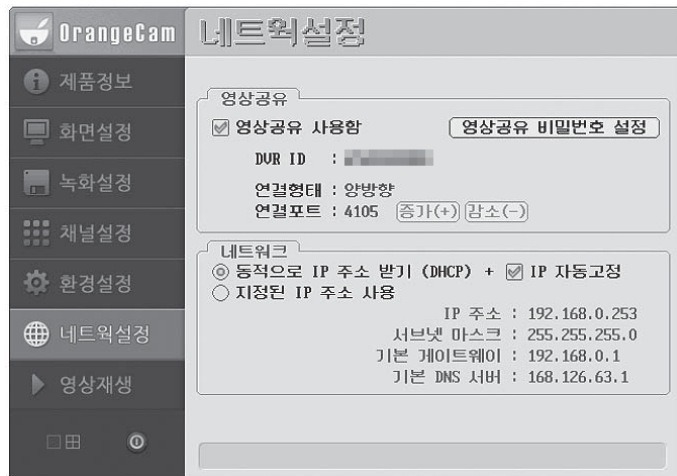
:If Internet access is connected, it is embedded with automatic time setting function. It is used to manually set the time, at the time of time synchronization or disconnected Internet. As 'Internet time synchronization' function synchronizes with domestic and overseas time servers, it is possible to accurately set the time.

Update (One-touch firmware update)

Press on update, and it automatically starts.
(Note. System starts automatic rebooting.)

It is used to update a firmware to the recent version. For update, it requires storage space for hard disk or USB storage.

If connected with Internet, starting update for automatic installation. If not connected with Internet, you may use USB memory card or external storage



● Video share :

It is used when you want to remotely view Internet or smart-phone.

To use video share service, you can set password to prevent others to know.

Video share password is encrypted only inside the device, not in a server. As the encryption is complicated to change at any time, the transferred data is safe from hacking.

After installation, make sure to change your password. After changing password, you can manage DVR safely.

To change password, you can do so from Network setting>Video share password setting. When you forgot password, you may go back to initial settings by initializing setting.

The process of DVR's video share service is as follows:

DVR power approved > network IP allocation > Port open check > Port opening attempt > Start video share service

Open port is opening path of Internet share software, in order to take video from the outside. This device has automatic open port function. In old style Internet share software without UPnP or some Internet share software or multiple Internet share software environment, the port automatic opening function may not be available. The connection ports from 101 to 999 are those designated by a user, those from 2000 to 9999 are automatic setting port. With automatic port open, the port settings should ensure no conflict with nearby devices to set between 2000~9999 area. If manually opening with the installation of more than 2 DVRs onto the same Internet share software, you have to designate ports differently each other.

We recommend that check network as 'Receive IP address' + 'IP automatic fixed'.

When you use the Internet share software, the service is available only through DHCP function with the allocation to the same segment.

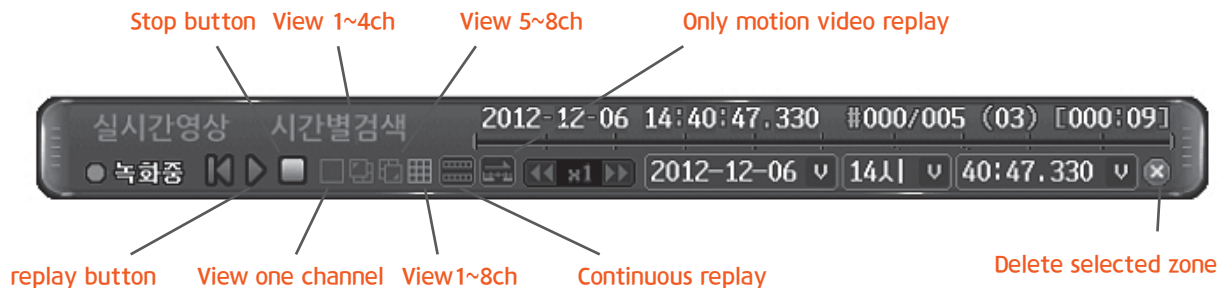
※ At failure of port open, how to manually set the Internet share software onto software

Method 1. To register to DMZ

: Write down only set IP address to DMZ address and save it to be completed

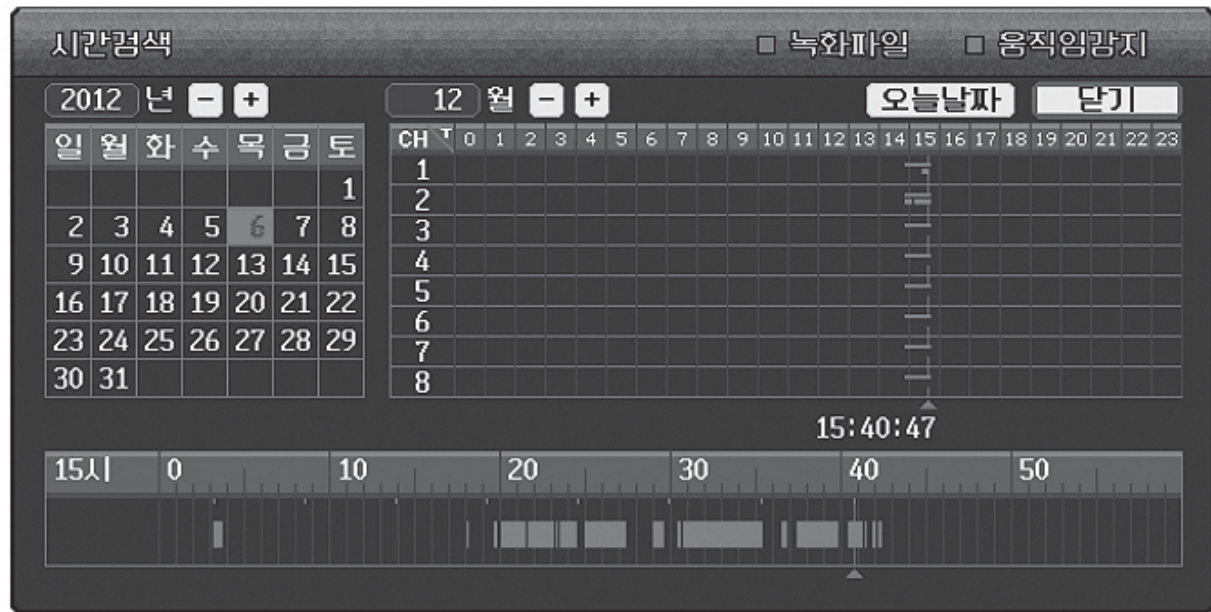
Method 2. To register port forwarding

: Write down only set IP address to port number and save it to be completed



Replay saved video. You can more easily search such functions through search by time.

During the replay, you may place the mouse on the Time Bar, and press on the left button for faster section replay. You can also search by holding and moving. Delete selected zone is the function to delete file block with video currently replayed.



You can more easily find video you want through search by time, rather through the personally selected time zone from combo box. Select the date on the left, and you can see the recording and motion for 24 hours a selected date.

Blue represents the starting point of motion. Set the time zone you want, the time zone is shown in detail in the bottom, starting the replay from the clicked point.

1 Orange Cam site access (www.myorangecam.com)

2 . Installation of program lamp

3 Log in



- Install the web program

To view video in normal status, you need to install Orange Cam web program.

ID :

Password :

- Join membership and Log in

Membership authorized. You can view and control purchased product or registered+shared video via Internet.

4 View Video

5 Go to video screen

View Video Menu

- From the upper menu, click on View video

Logged in, select the registered product list, and you can immediately such real-time video via web

DVR ID :

0109026393

DVR Password :

- Go to video without log in

/ From View video screen, enter product number(10-digit) written on its bottom and password, you can go to without Log in.

■ Main item	Safety Caution	p. 31
	Caution during operation	p. 32
	Name of each part	p. 34,35
	Quality warranty certificate	p. 36



Check if the power plug properly connected to the inside without vibration. Unstable access might cause fire.



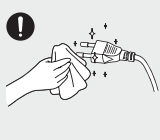
Do not touch the power plug when you plug and pull out it. Danger of electric shock!



Make sure to connect the power plug to earthed socket. Otherwise, it might cause electric shock and human damage.



When disconnecting the power plug from socket, make sure to hold the plug part. It might cause electric shock and fire.



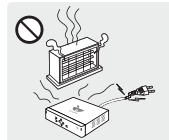
Clean the dust around the power plug-pin area or socket, with dried cloth. It might cause fire.



Place the power plug at an easy place to find. If there is a problem on our product, make sure to pull out power plug to completely block off. Only power button on the body will not completely clear off power



Install the DVR body at a well-ventilated place. Do not place heavy good or cover DVR with tower. As DVR product is in operation for long-time basis, generating heat. If goods are on device, such devices get damaged and this might cause the malfunction.



Do not bring a power cord or a product close to heating device. Otherwise, it might cause electric shock and human damage.

● HDD storage management

(*)DVR-dedicated HDD is embedded inside. Any shock during being moved, will cause permanent damage on disk or head. So, make sure to carefully handle it.

● Change date / time

From Menu > Environment setting > time setting, directly enter.

If Internet is connected, it can be conveniently change with Internet time synchronization button. In addition, this device is made to set accurate time, by being connected with Internet Time Server at interval.

● Device firmware update

From Menu > Environment setting > update, you can update. It is recommended to use the most recent firmware to update on a regular basis.

Update via network. Connect the Internet and click on update button. Then, after the completion of download, there will be rebooting and automatic update.

Update through USB. Visit <http://myorangecam.com> or <http://orangecam.net>, download the recent firmware file to be saved in the highest parent space of USB storage before starting update. If USB device not recognized, pull out and connect the plug. In 10 seconds, click update button. If it is not effective, plug in and reboot, in order to click update button.

If the failure continues, try through other FAT16 or FAT32 USB device.

(Note) USB contains only one firmware. Make sure to delete previous firmware

● Finish DVR device/Reboot

At DVR completed, press on power button on the left bottom page. Press on icon to see and disconnect the power, which will increase life cycle of a device. If power plug is not pulled out in 30 seconds after the termination, it will automatically turned on by electricity restoration system.

● How to use mouse

This DVR device is appropriate structure to operate with mouse. Plug in the mouse to the USB terminal behind a product, it is easy to select and run Menu and conveniently search during replay.

Connect to TV or monitor

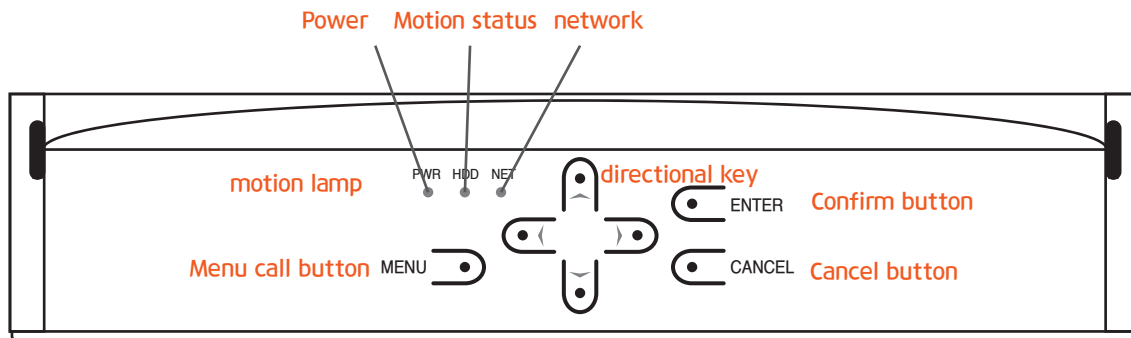
This DVR device assists VGA OUT or (NTSC/PAL) TV OUT. As this is not the simultaneous display, it requires mutual selection shift. Here is how to. While DVR booting and normal motion, press Menu(Menu) button and Cancel button simultaneously from device front section, to be able to shift between VGA OUT<->TV OUT. After the shifting, you have to press on 'Enter' button in 10 seconds to finish all the settings. Once 10 seconds passed, it will go back to previous screen mode.

Display path: VGA OUT (Recommended)

To be connected to computer monitor or LCD TV. The 1024x768 resolution provides optimum environment to the PC. For LCD TV, first connect to VGA terminal to select 'PC Input' from 'external input'.

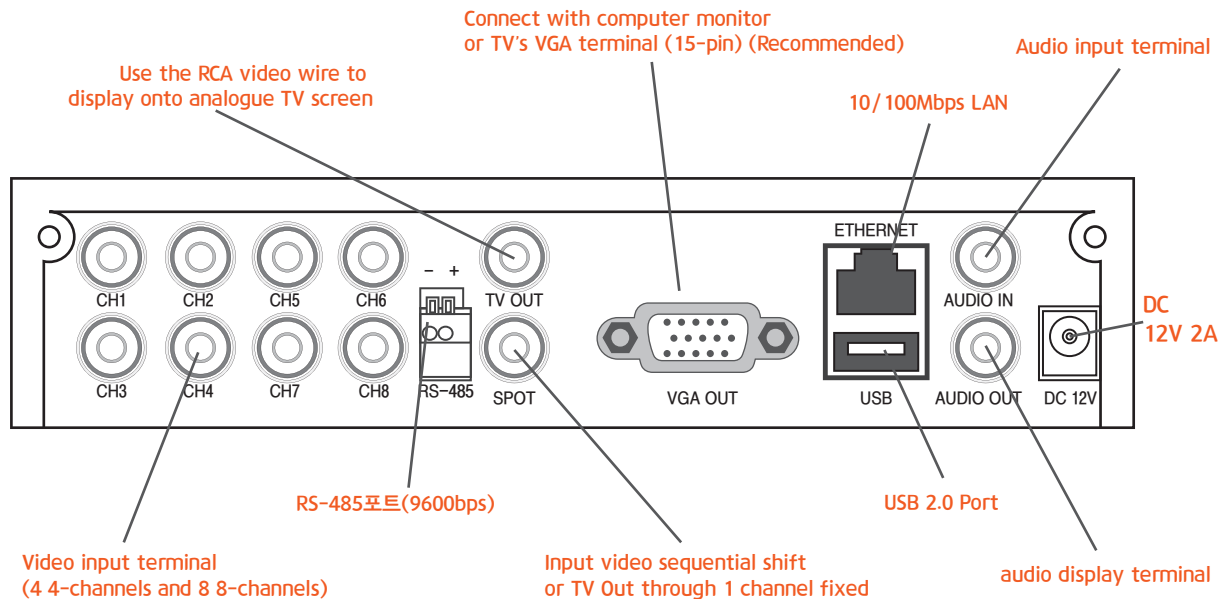
Display path: TV OUT

The resolution is 800x480, whose menu screen looks in bigger size than VGA OUT, and may be inconvenient to operate. Video cable is used mainly to see monitor from a long distance. We recommend network video share from the distance.



MENU  +  UP **Reset Button**

MENU  +  CANCEL **Change TV or VGA**



Warranty Card

1. About Warranty service

We guarantee our product quality according to liability rules according to Consumer Protection Act. For any malfunction during your normal use and Warranty Service period, customers are subject to free service. However, if the malfunction is caused by customer's mistake or natural disaster, you have to pay even during free service period. This warranty service is effective only in Korea. The quality warranty certificate will not be issued again, please keep it with User Manual without loss.

* Customers' rights

As this device is registered as electric compliance for business purpose, sellers or users are required to take notice of this. If there is something wrong in sales or purchase, please exchange it with that for home purpose. Free Warranty Service period starts from the purchase date. Ask the seller to state the purchase date on quality warranty certificate or keep such receipt. Please submit it together with the first application for service, if purchase date cannot be selected, the date will be 3 months after from the manufactured date.)

2. Responsibility for paid service

- ▶ If the malfunction caused by input foreign substance within a product (water, beverage, pen, toy, etc.)
- ▶ If the malfunction caused by dropping product, damage by shock and errors in functions
- ▶ If the malfunction caused by paint thinner, benzene, to make damaged appearance and error in function
- ▶ If the malfunction caused by heavy goods on the product and overheat
- ▶ If the malfunction caused by mis-approved power voltage
- ▶ If a customer has dissembled the product, having caused damage and loss.
- ▶ If the malfunction caused by repair or renovation done by other centers or people, not by our service center
- ▶ If the malfunction caused by the failure to keep the warnings and cautions in this User Manual
- ▶ If the malfunction caused by other customers' mistake (fracture of cable connecting to power supply, soaking and damage, etc.)

Your Name	
Phone No.	
Address	
Where to Buy	
Phone No.	
Address	
Purchase	
Product	
Warranty Service period	Within 1 year from purchase date

※For question about our product, please ask our nearby seller.

3. A/S rules and Caution

- Installation and repair is only done by approved and experienced person.
- Make sure to power off the DVR, when being connected with camera, audio and other cables.
- We are obliged to take responsibility for any damage caused by the customers' failure to comply with the cautions or by using other products with different dimensions.
- Manufacturer does not take any responsibility for a product whose quality guarantee mark or manufacturer's serial number is removed/damaged.

(A). transport cost treatment

A consumer shall bear the transport cost for services except for initial defective products

(B). Visit our home page to receive customer service.

<http://www.myorangecam.com>

※ For CCTV installation question, call anywhere at 1544-6388



phone No. : 1544-6388