IP Camera User Manual
(Full HD IP Network Camera)

Version 17.08.23

Contents

Notice

About this Manual

It is assumed that the users are familiar with Microsoft Windows and Web Browsers such as Internet Explorer. We recommend you to review this manual before install and use the product although users has enough experience. Keep our recommended warning messages and caution notices for your safety, to prevent damage of property. Then keep this manual where you can find easily when you need this manual.

- ✓ **Damages caused by misuse (i.e. use of parts not suggested) will not be covered under warranty.**
- ✓ **If user is a beginner to install the product, and feel difficult to use the product, please contact to its supplier and ask his technical support.**
- ✓ **Do not disassemble the product for alternation or repair. If you need, please contact its supplier and ask his technical support.**

For user's safety

Please remind below safety rules for user's safety and to prevent improper use of the product. Correct using, it will save user's life and prevent damage of user's property.

- ✓ **Do not give shock during moving and installation.**
- ✓ **Escape any electric shock, vibration, and risk of fire hazards.**
- ✓ **Do not move & transfer the product during running the product.**
- ✓ **Please remove power input when user clean the product.**
  (Do not spray water, wax or other cleaning liquid directly onto the product.)
- ✓ **Do not get wet when user remove power input..**

Risk Group 1
WARNING IR emitted from this product. Do not stare at operating lamp
Product tested against IEC62471

CAUTION
Do not watch IR LED Light on the Product directly.

IP Camera Search

In order to have the camera viewable on the network, IP address has to be assigned first. When a user double clicks IPCamSearch.exe file which a software provided in the CD will help to search IP camera and change the IP address easily.
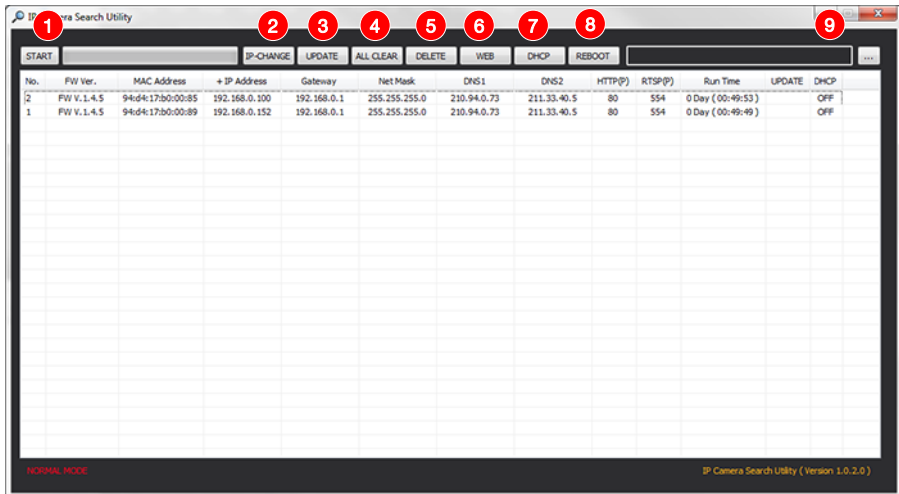
1. **START** : Enable to search IP cameras in the network and display the list of searched cameras.

2. **IP-CHANGE** : After Search, select the displayed camera and click "IP-Change" to change IP address, Gateway and Net Mask.

3. **UPDATE** : Firmware can be updated. Before updating, please load firmware from PC.

4. **ALL CLEAR** : Displayed cameras are all cleared.

5. **Delete** : Delete the displayed cameras in the list.

6. **WEB** : Go to web view for the selected camera.

7. **DHCP** : Change to DHCP mode for the selected camera.

8. **REBOOT** : Reboot the selected IP cameras

9. Load firmware from your PC to update the latest firmware

Default IP Address

Factory default value of IP camera is like below.

> **• IP : 192.168.0.100**
> **• SM : 255.255.255.0**
> **• GW : 192.168.0.1**

When you connect IP camera and PC directly, please assign the IP address of PC by choosing any numbers from 2 to 254 except "100" as shown below.

> **• IP : 192.168.0.150**
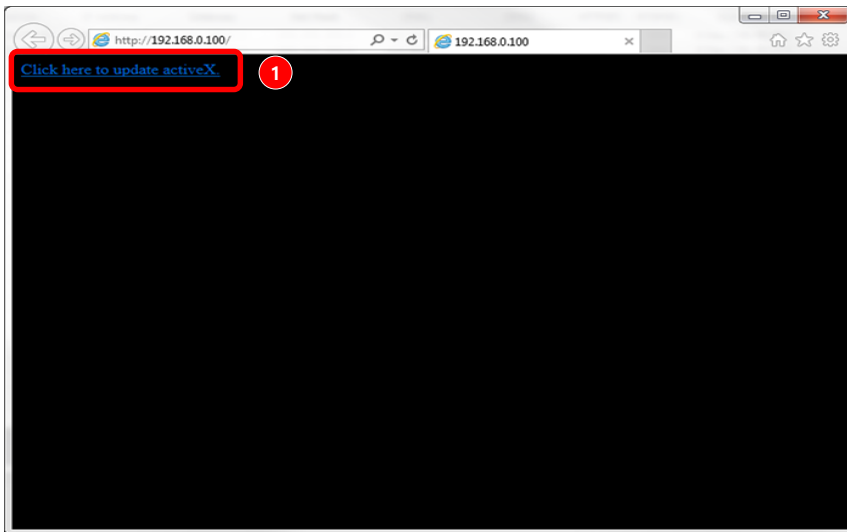> **• SM : 255.255.255.0**
> **• GW : 192.168.0.1**

After connection, allow to install ActiveX (Web Live Player software) on PC. For the installation of ActiveX, please refer to the following page.

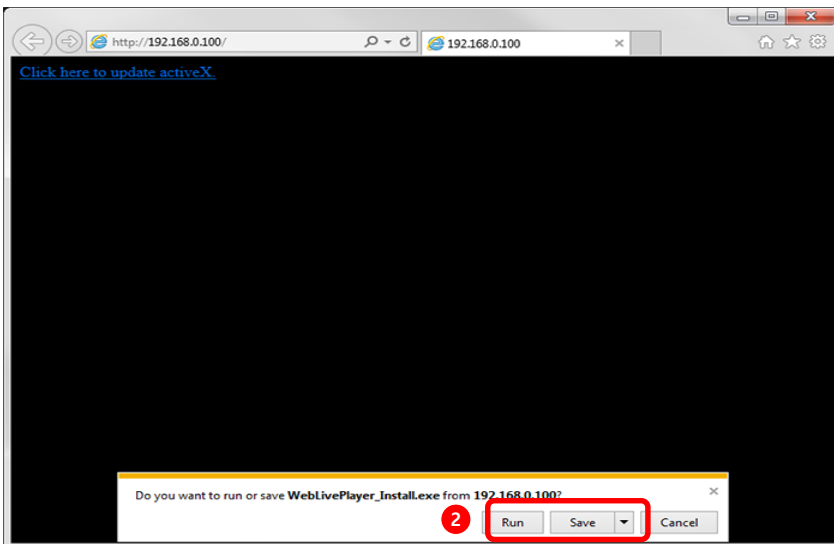**※Available OS : XP, VISTA, WIN 7/8/10(32/64bit)**

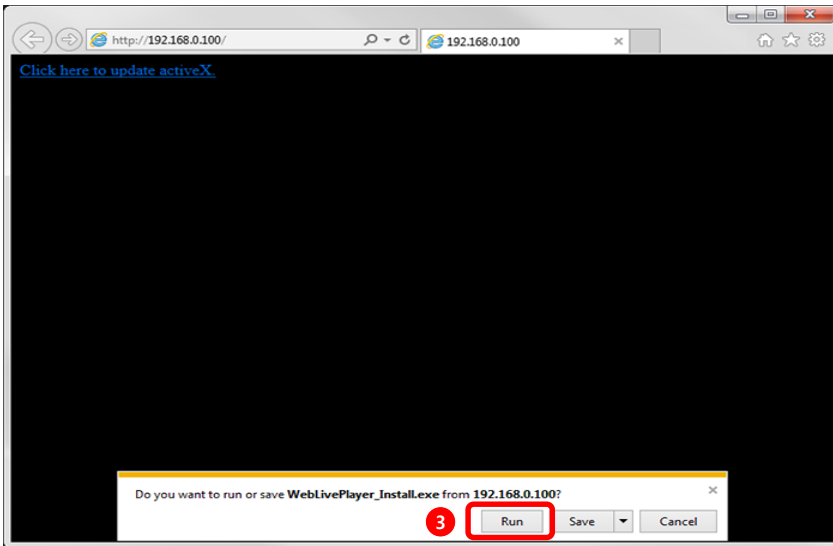# ActiveX Installation

ActiveX(Web Live Player) Installation

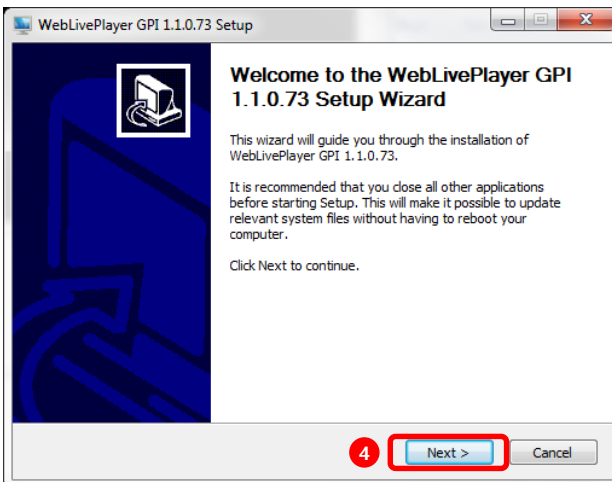**1** Click "Click here to install Web Live Player".

2 Click 'Run' to download or click 'Save' to download and save Web Live Player to your PC.
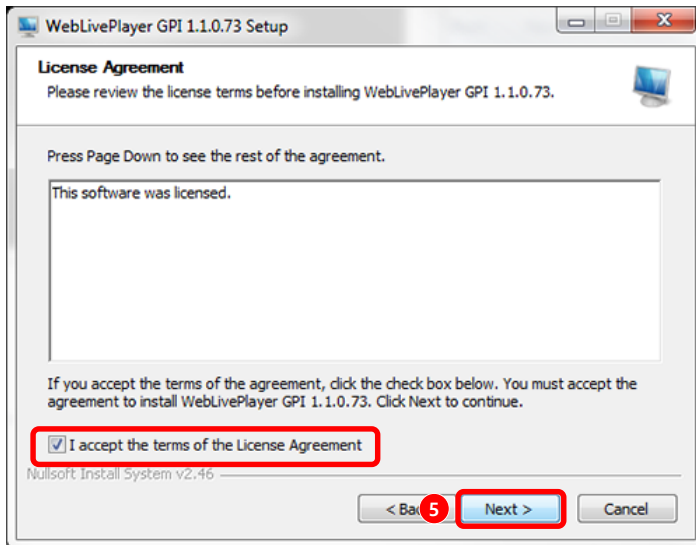
ActiveX Installation
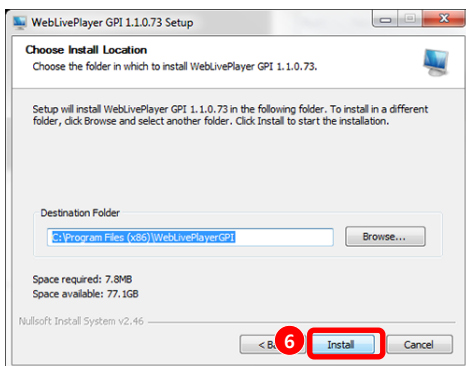

③ Click "Run" to directly install Web Live Player.
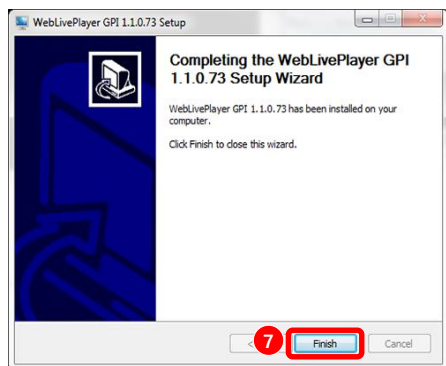

④ Click the 'Next' button.

ActiveX Installation

⑤ Check on Agreement message and click 'Next' button.

⑥ Click the 'Install' button.
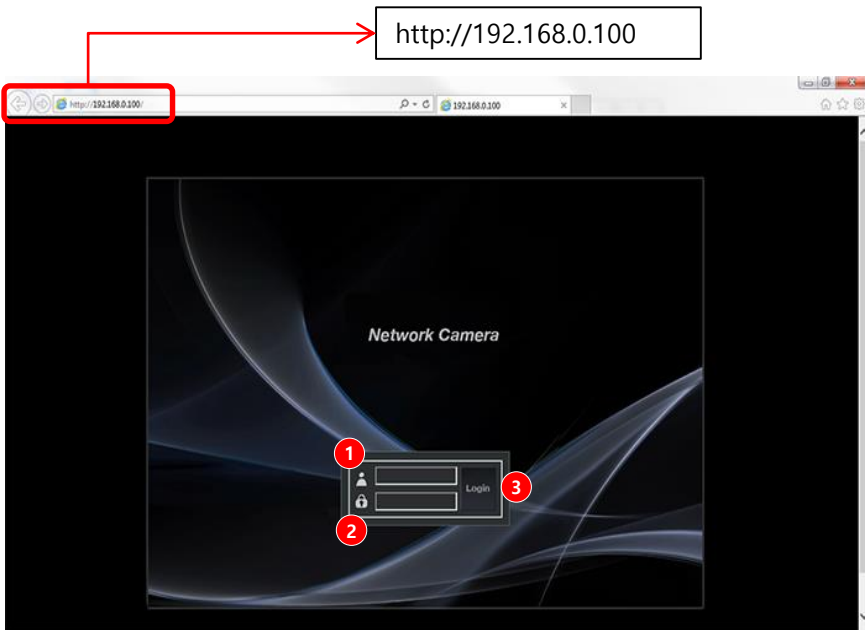

⑦ Click 'Finish' to complete the installation.

LOGIN

Input IP address of IP camera on web(Internet Explorer)

http://192.168.0.100

Network Camera

Input User ID, Password and click "Login" button.
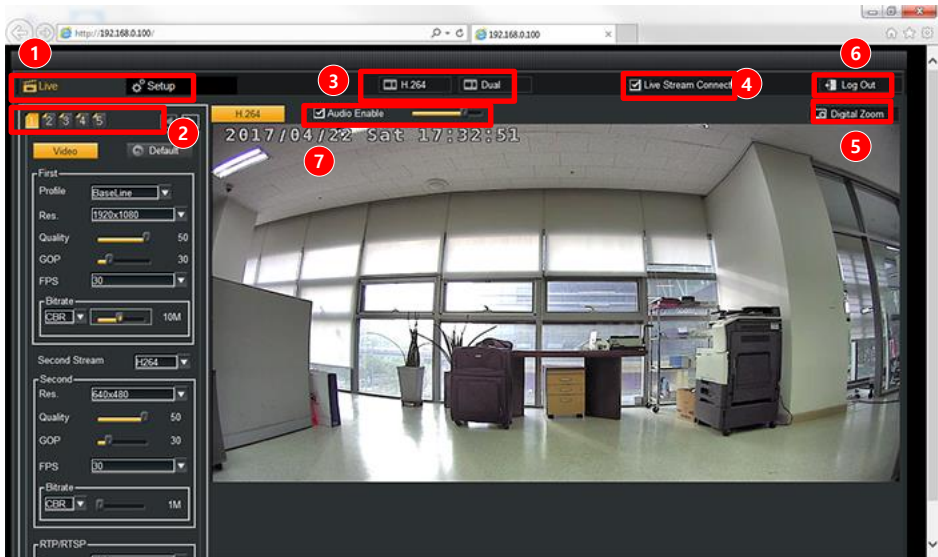
1 User ID : User's Account Name

2 Password : User's Secret Number

3 Login : After input User ID & Password, click 'Login'.

Default ID & PW
- User ID : admin
- Password: admin

LIVE

Live View & Camera Setting on Web
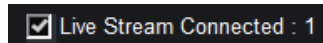

1 Selectable modes of Live / Setup

2 Live Image Control : 1(Video), 2(OSD), 3(Image), 4(BackLight), 5(Exposure)
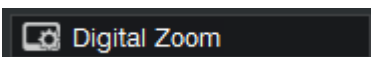

3 Live Image view mode : First Stream only or Dual Stream (First and Second)Stream)
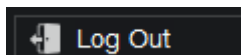

4 The number of connected users of camera

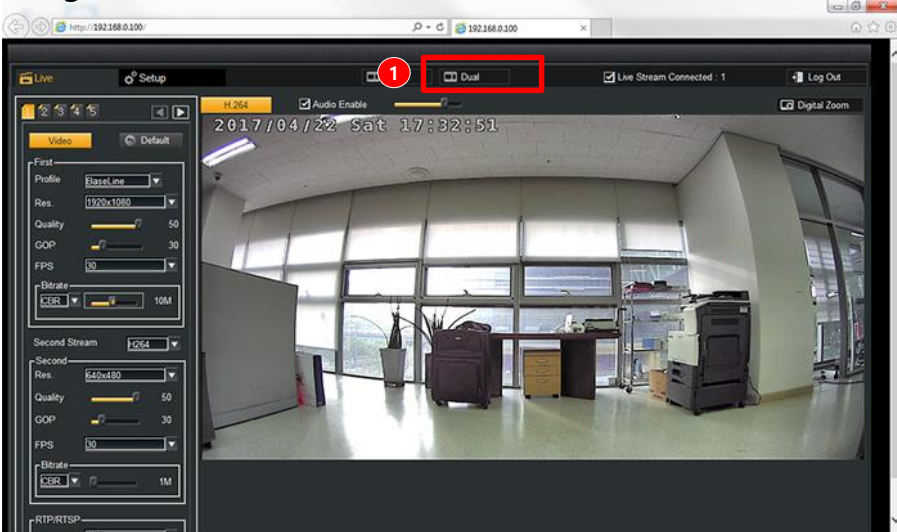

5 Digital Zoom

6 'Log Out' Button
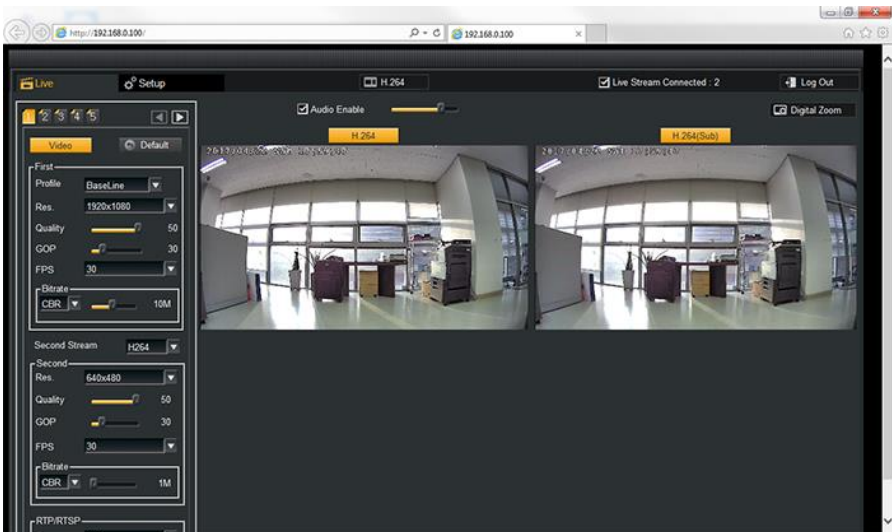

7 'Audio Enable and Volume

LIVE

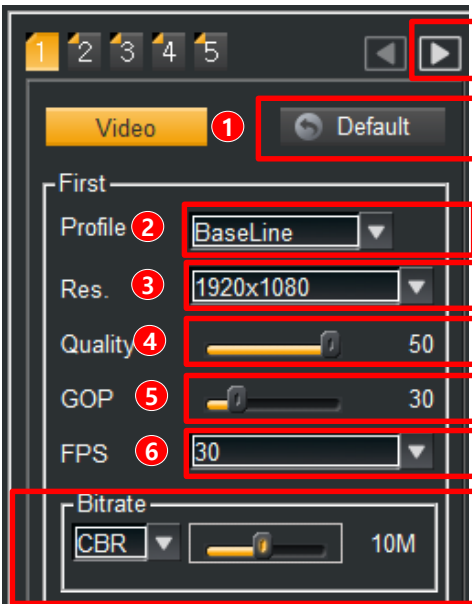## Image Selection – H.264 / H.264 or H.264/MJPEG

① Single(First Stream : H.264) only or Dual(H.264/H.264 or H.264.MJPEG) images can be selected.

② If you click 'Dual', you will see dual images(First and Second Video Images).

③ Whenever you click, Mode is changed.

LIVE

1 VIDEO – First Stream (H.264)

2 Profile : BaseLine, Main

❶ Default : Change all video settings to default value.

❸ Resolution : 1920x1080 ~640x480(6 steps) ⟶

❹ Quality : Video Quality Control(0~51)

❺ GOP(Group Of Picture) : 1~150
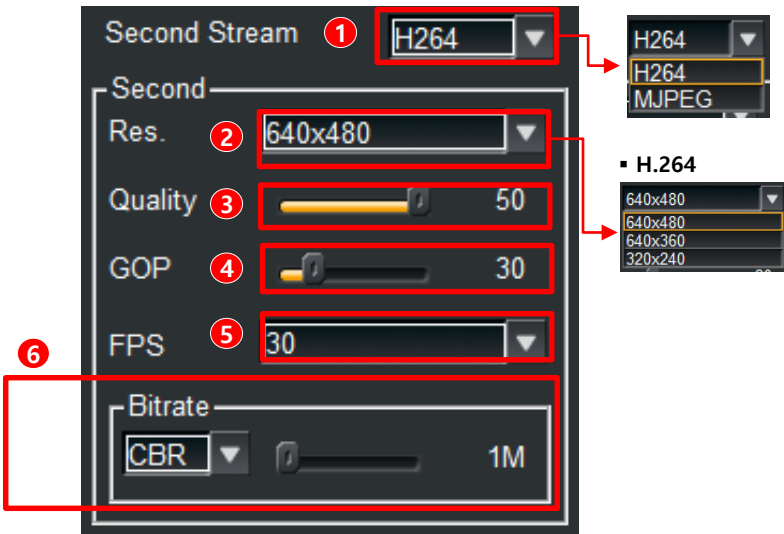
❻ FPS(Frame Per Second) : 3FPS ~30FPS, 720P 60FPS

❼ Bitrate

- CBR(Constant Bit Rate)/VBR(Variable Bit Rate)/OFF
- Bit Rate Control : 1Mbps ~ 20Mbps

LIVE

1 VIDEO – Second Stream (H.264)

1. Second Stream Type : H.264, MJPEG

2. Resolution : H.264 : 640x480, 640X360, 320x240

3. Quality : Video Quality Control(0~50)

4. GOP(Group Of Picture) : 1~150
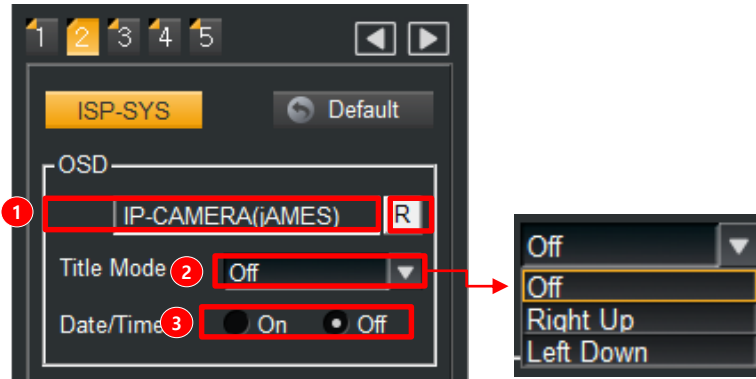
5. FPS(Frame Per Second) : 3FPS ~ 30FPS

6. Bitrate

- CBR(Constant Bit Rate) / VBR(Variable Bit Rate) / **OFF**
- Bit Rate Control : 1Mbps ~ 20Mbps

LIVE

2 OSD – Title Setting, Date/Time Display on Screen

1 Title setting on the screen is available.
Click the right side of the arrow button after inputting the name of title.

2 The position of title on screen is available.
(Off/ Right Up/ Left Down)

3 Set up the display of date & time at the screen.

LIVE

2 OSD / Output / System / Defog
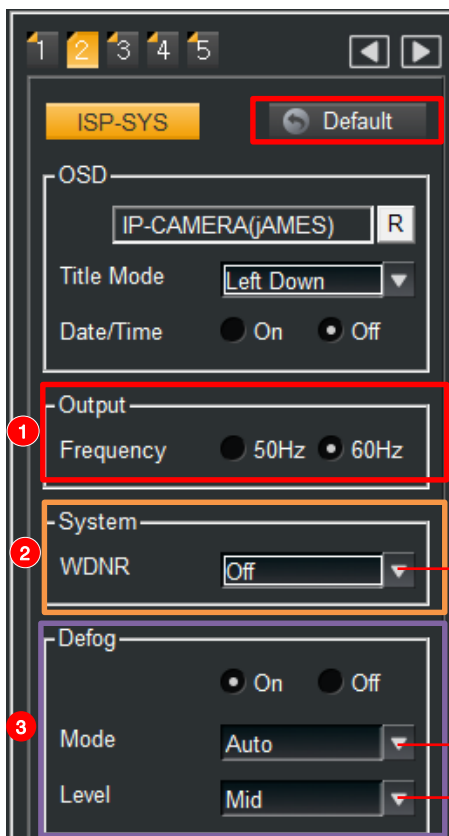
Click 'Default' if you go back to default value.

① Output Frequency
50Hz, 60Hz

② WDNR

③ Defog (On, Off)

LIVE

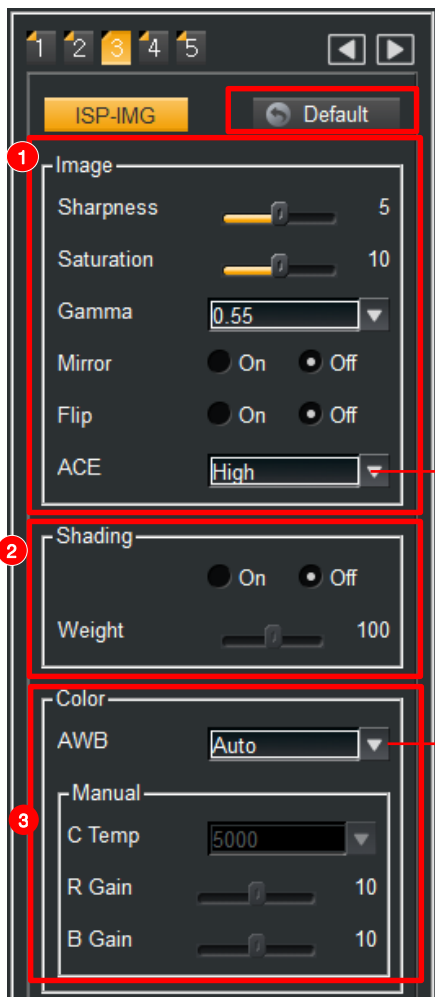## 2 OSD – Title/Date & Time, Special values display on Screen

1 Date and Time are displayed On

2 Date and Time are displayed at the Left Down
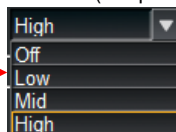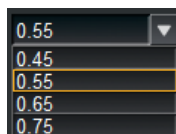
LIVE

3   CAMERA - Image / Shading / Color

In this menu, various setting modes are supported to show video as the same as the real environment.

Click 'Default' if you go back to default value.

1 **Image**

1. Sharpness : 0 ~ 10
2. Saturation : 0 ~ 20
3. GAMMA : 0.45/0.55/0.65/0.75
4. Mirror : On / Off
5. Flip : On / Off
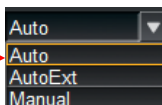6. ACE (Adaptive Contrast Enhancer)

Video is getting bright at low light condition.
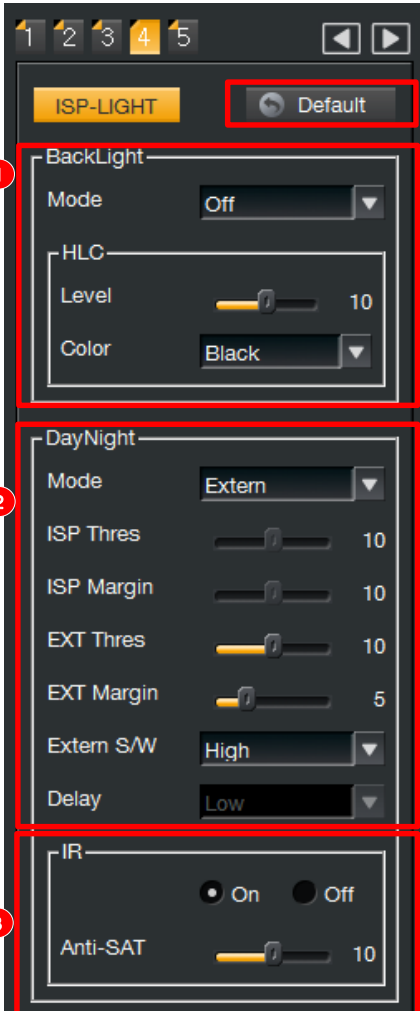
2 Shading

1. On / Off
2. Weight : 0 ~ 200

3 **Color**

1. AWB : auto/autoext/manual
2. C-TEMP : 3000k/5000k/8000k
3. R-GAIN : 0 ~ 20
4. B-GAIN : 0 ~ 20

LIVE

4   CAMERA – BackLight / DayNight

Click 'Default' if you go back to default value.

❶ Backlight

1. Mode : OFF / HLC / BLC
   - **HLC(High-light Compensation) :**
     -Color : 9 colors supported
     -Level : 0 ~ 20
   - **BLC(Back Light Compensation) :** ON / OFF

❷ Day Night

1. Mode: Auto/Day/Night/Extern
   Auto: ISP Thres : 0~20
          ISP Margin : 0~20
          Delay : Low / Middle / High
   EXT thres : 0~20
   EXT Margin : 0~20
   Extern S/W : High / Low
        This item is Dependent on hardware of
        external IR borads.
   Delay : Time delay of the IR change.

❸ IR

IR LED Anti-Saturation : ON/OFF
Anti-SAT : 0~10
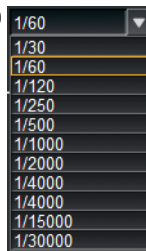This function only works when IR is turned on.

LIVE

5 ADVANCED

Click 'Default' if you go back to default value.

1 Exposure

1. Brightness : 0 ~ 20
2. Shutter : Auto / Manual / Flicker
3. Mode : Indoor / Outdoor / DeBlur
4. Speed (Manual selection of Shutter Speed)
   : 1/30 ~ 1/30000

5. AGC(Auto Gain Control) : 0 ~ 10

LIVE

 Digital Zoom
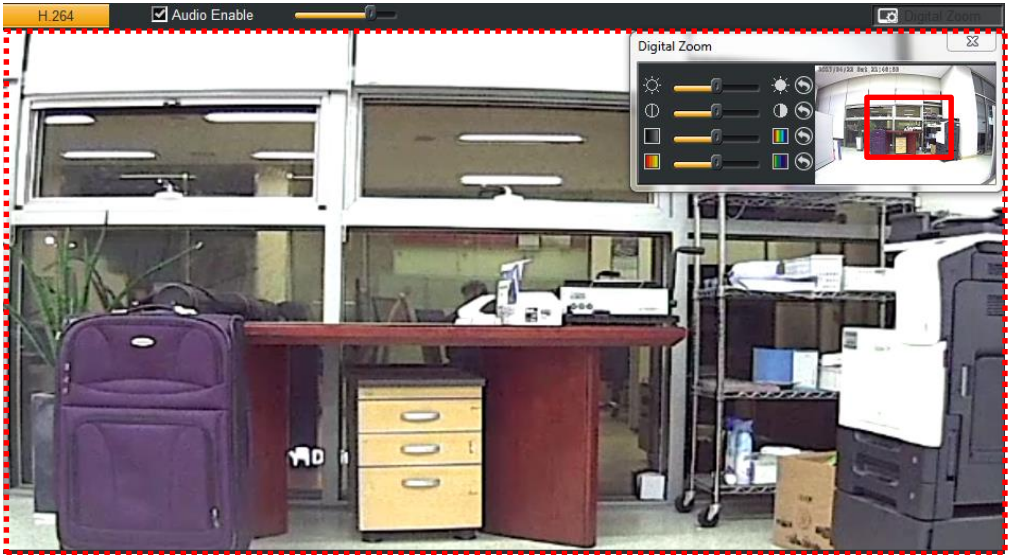

1. Select the area of the digital zoom (Press the right button of mouse and drag)

2. Controls the brightness of digital zoom screen.

3. Controls the contrast of digital zoom screen.

4. Controls the hue of digital zoom screen.

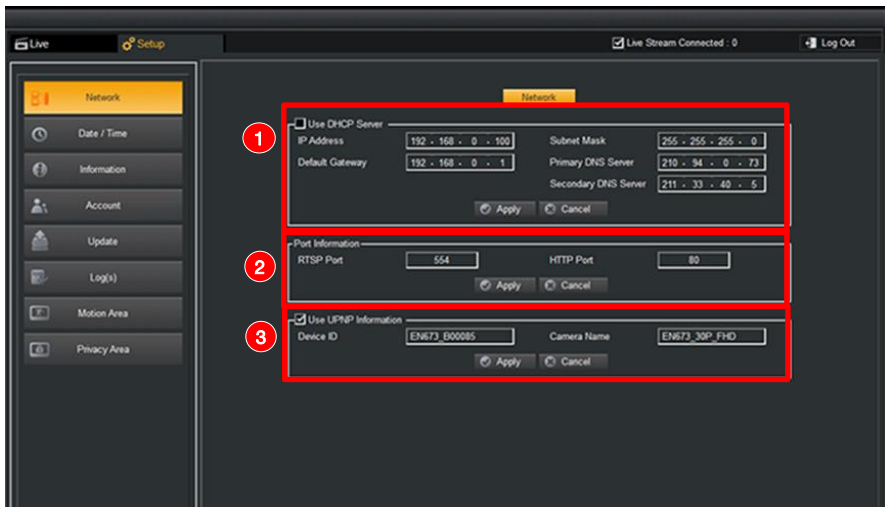5. Controls the saturation of digital zoom screen.

LIVE

Digital Zoom Screen Display

SETUP

NETWORK SETTING

1. 1. Network Information setting
   2. IP Address setting
   3. Subnet Mask setting
   4. Gateway setting
   5. DNS setting (Primary / Secondary)
   6. DHCP setting
   7. Apply – Setting default is saved.
   8. Cancel - Setting default is cancelled.
   9. After 'Apply', IP is changed. So you need to re-login

2. RTP / RTSP Port setting is available.
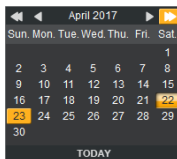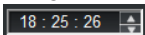
3. UPNP setting(future use)

SETUP

DATE & TIME

① Current Equipment Time

② 1.   SNTP / PC Time / Manual Time setting is available.
    2.   Setting of time for user or menu for time is available.
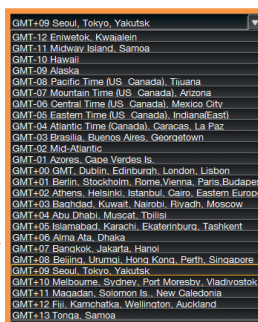
③ Date Type setting is available.

④ Time Type setting is available.

⑤ Time Zone setting is available.

⑥ DayLight Saving time On / Off

SETUP

INFORMATION & ACCOUNT

1. The various information can be seen.
2. Device Name / Product Name / UI Firmware Version / System Firmware Version / Manufacture / Contact / Fax / E-Mail
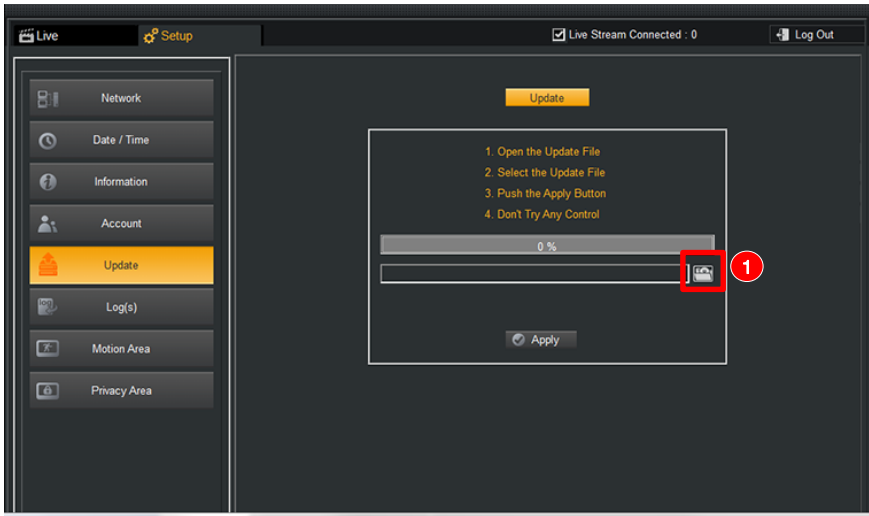3. ActiveX Verision

1.   Input password for your account.
2.   Click 'Apply' button, and you need re-login to check the adjustment.

Admin / Operator / Viewer is selectable.

SETUP

UPDATE(Firmware)

1. Select the system firmware on your PC.
2. Click 'Apply', and update will be proceeded for 3 minutes.

SETUP

LOG(S) & MOTION AREA
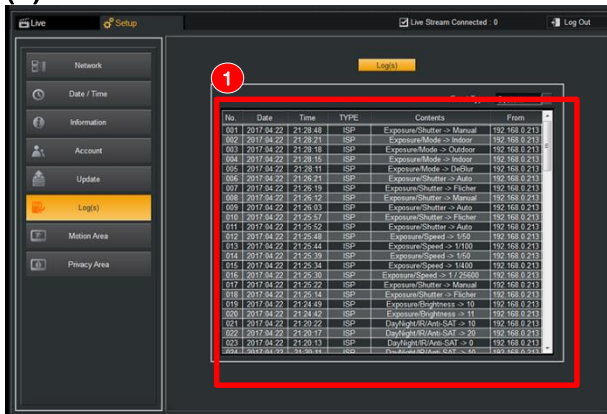
1 1.   Shows event list on this log table.
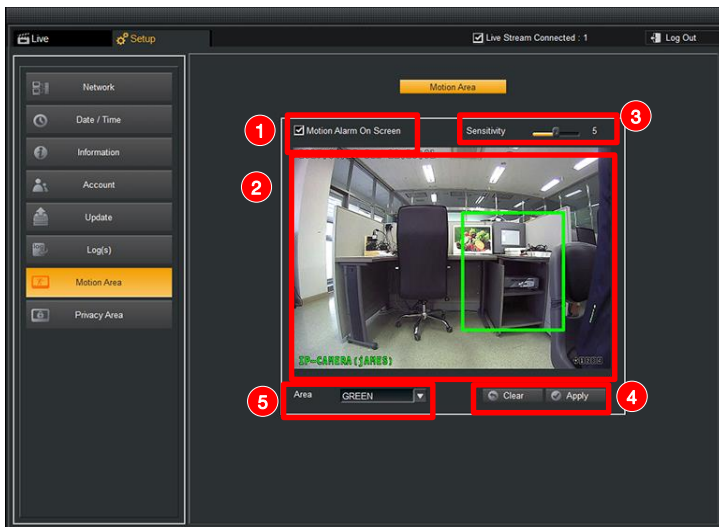
1 Check on if you want to show motion status on screen when motion is detected.

2 Select the area by Mouse Click and Drag.(support 4 zone)

3 Adjust motion sensitivity from'0' to '10'('0' is most sensitive)

4 Click 'Apply' button to save or 'Clear' to erase all.
  Refer to following privacy item.

5 Select Motion area setting (4 areas with 4 colors)

SETUP

PRIVACY AREA
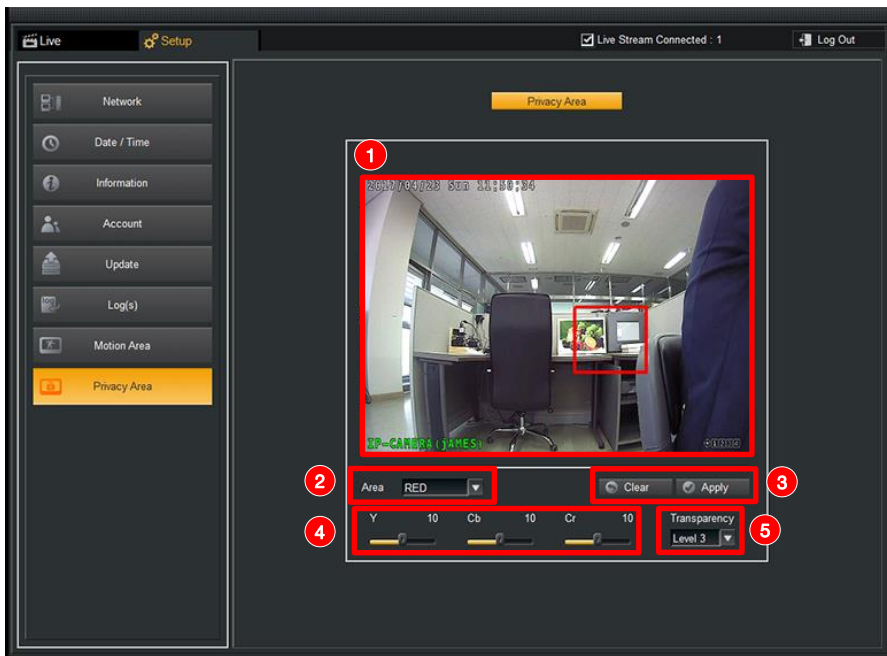
① Select the area by Mouse Click and Drag.(only 1 zone)

② Select color for privacy zone you selected.

The 'All' item shows all areas that have been set up.
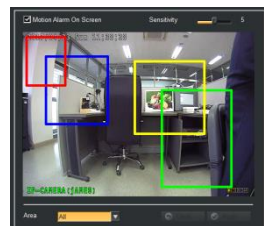Be sure to select a certain color of the areas first when trying
to save or delete the privacy areas.

③ Click 'Apply' button to save or 'Clear' to erase all.

④ Select this YCbCr value to change the color of privacy area.

⑤ Select transparency of privacy area. (LEVEL 0 = 0%, LEVEL 3 = 100%)

Question and Answer (Q&A)

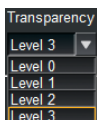| Symptom	Check Point
It doesn't turn on.	• Check Power Supply connection. • Check Power socket status.
It's not available to ping by IP setting address.	If the Camera and PC's Subnet Mask & Gateway address are different, it's not available to connect each other. Please set-up same Subnet Mask & Gateway address of Camera and PC. Then try it again.
It's not available to find Web-page.	Basically, built-in Web server Port number is 80. If the Camera is installed in Firewall and can't use Port number 80, Web service is not available. Please find available Port number and use that.
No movement on picture screen.	It is something wrong on network or Web server. Please check network service what is problem and solve it. After solve the network problem, the Camera will connect with Web server automatically. If not, please re-start Web Browser, and access to Web server.
PoE Switch doesn't aware on system.	• Check the LAN cable whether is Cross type or not. • Check the Camera Input / Output status, and PoE Switch connection in advance. If they don't connected correctly, please connect them correctly.
It's not available to see any picture image.	• Check Power Supply connection. • Check network status from PC to Camera.
The picture quality is poor and gloomy.	• Check whether Lens is dusty or not in advance. If yes, clean the Lens with fresh brush or fabric. • Don't exposed to intense light source such as direct sun-light. Please change camera's location & angle of incidence.
Picture color reproduction is wrong.	Check the Camera's White Balance set-up menu in advance. If it's Auto White Balance, it will takes some little time to control White Balance function.
The picture image flickered.	• Don't expose to intense light source such as direct sun-light. Please change camera's location & angle of incidence. • Check Settings ▶ Camera ▶ Flicker menu.
It's not available to install "ActiveX" on PC.	• It's available to crash old installed ActiveX with new one. • Please ask this problem to PC Service Center.
Where is the installed ActiveX at PC ?	If user delete "giffx.dll" / "GoDBATL.dll files in C:/window folder, it is available to re-install ActiveX.