

PUBLIC VIEW MONITOR

SMT-2731PV

SMT-3231PV

SAFETY INSTRUCTIONS

1. WARNING

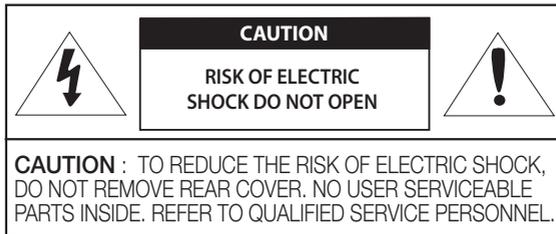
To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

Do not insert any metallic object through the ventilation grills or other openings on the equipment.

Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

To prevent injury, this apparatus must be securely attached to the Wall/ceiling in accordance with the installation instructions.

2. CAUTION



3. EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of "dangerous voltage: within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION

IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT.
METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS.

※ This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunderstroke, communication interruption.

※ Select an installation site that can hold at least 4 times the monitor weight.

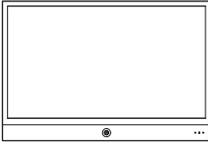
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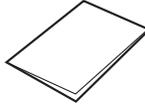
overview

PACKAGE CONTENTS

Please check the following contents are included in addition to the main unit.



Public View Monitor



Quick Start Guide



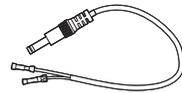
Alarm terminal block



Remote Controller



Battery



Power Inverter Harness

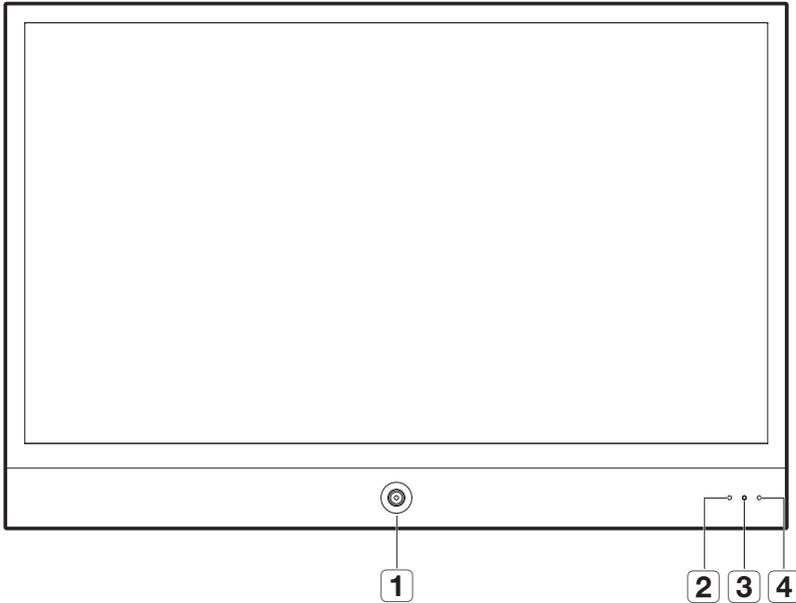
SEPARATELY SOLD PRODUCT

| Appearance | Item Name | Description | Model Name |
|---|---------------|-----------------------------------|------------|
|  | HPoE Injector | Connects power supply and network | SP0-8315 |
|  | Adpater | DC 24V power supply | SPU-60240 |

The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3bt shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1 or PS2 as defined in UL62368-1.

NAMES AND FUNCTIONS OF EACH PART

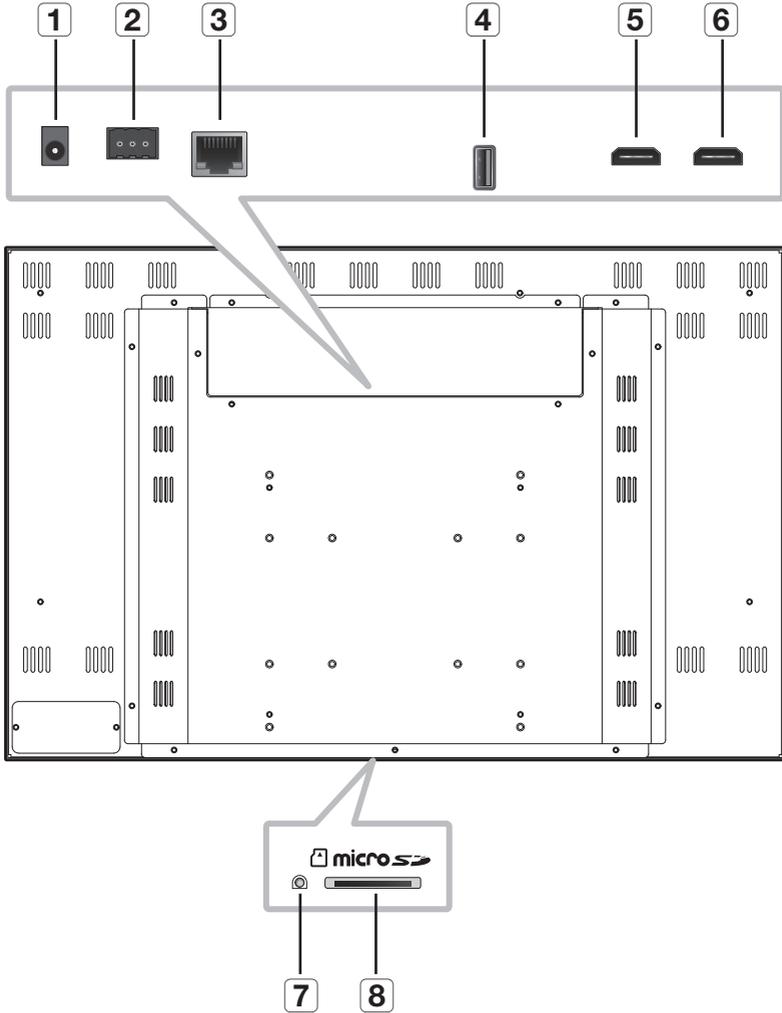
Front



| Name | | Description of functions |
|------|-------------|--|
| 1 | Camera Lens | IP camera is installed. |
| 2 | ALARM LED | Displayed when an alarm output occurs. |
| 3 | LED | Displays the power ON/OFF status. ON – GREEN OFF – RED |
| 4 | IR Receiver | Receive IR signal from Remote Controller. |

overview

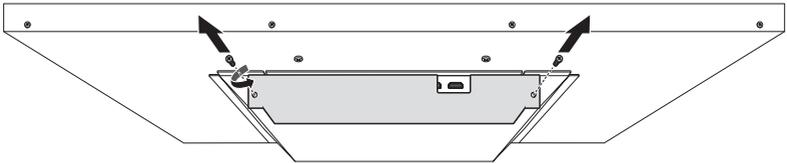
Back



| Name | | Description of functions |
|------|--------------------|--|
| 1 | 24V | This is the DC 24V Power input terminal. |
| 2 | ALARM | ALARM signal input / output |
| 3 | HPoE | Used to connect the HPoE or Ethernet cable for network connection. |
| 4 | USB | Connect the USB Devices for Monitor F/W update. |
| 5 | HDMI1 PIP/PBP | HDMI Input terminal for PIP/PBP |
| 6 | HDMI2 | HDMI Input terminal (not support PIP/PBP in Web viewer) |
| 7 | RESET | Resets the camera installed in the monitor to its factory default settings. <ul style="list-style-type: none"> If you forget your password, use the RESET button. |
| 8 | Micro SD card slot | Compartment for the Micro SD card. |

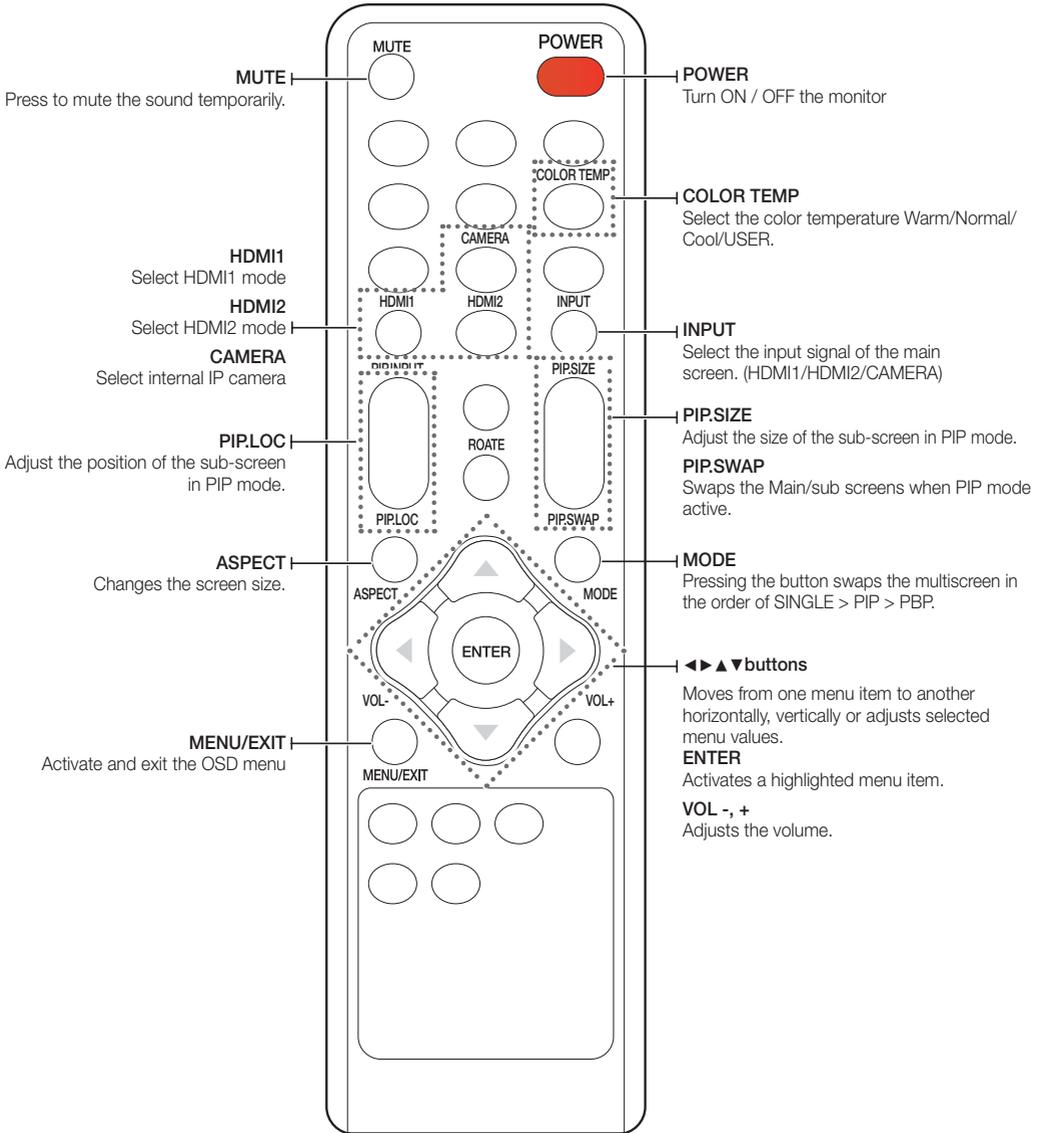


- Detach the terminal cover by rotating the fastening screw in a counterclockwise direction to loosen it, then connect the cable.



- This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2".
- This product dose not support LLDP.

REMOTE CONTROL



connecting with other device

THINGS TO CHECK BEFORE CONNECTION

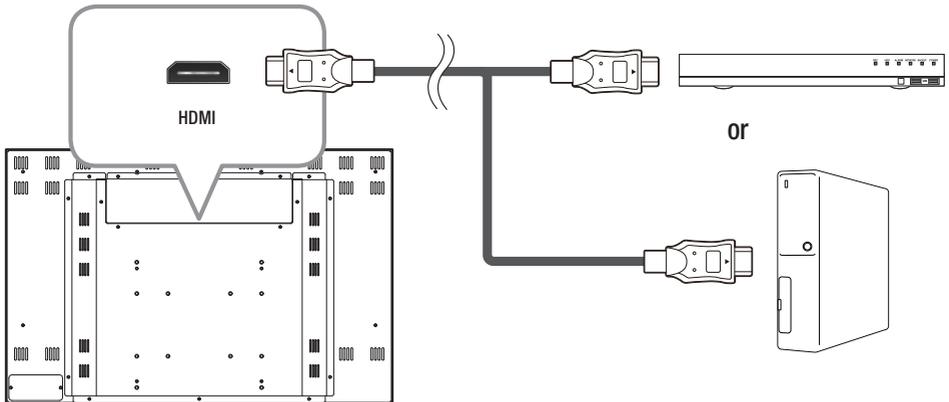
Check before connecting



- When connecting, refer to the instruction manual of the product to be connected. The number and position of external devices may differ depending on the product.
- Do not connect the power until all connections are complete. Connecting the power supply during connection may damage the product.
- Check the type of terminal behind the product you want to connect.

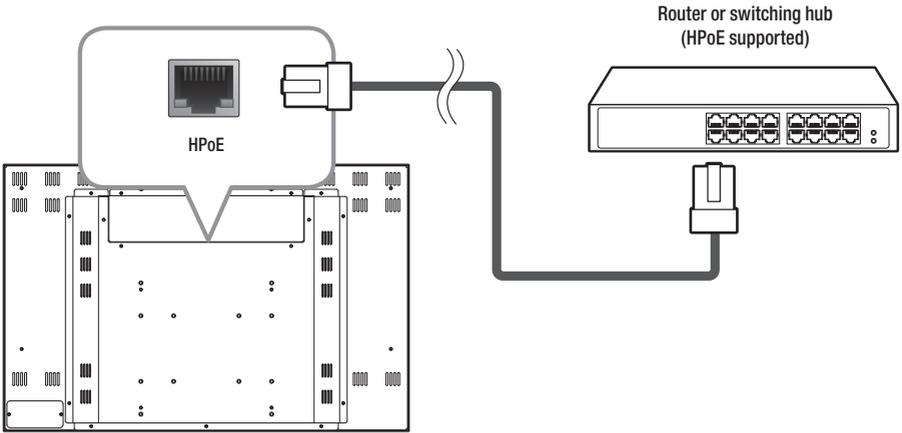
CONNECTING WITH EXTERNAL DEVICES

HDMI cable connection method



connecting with other device

Powering and networking



menu settings

OSD MENU SETTING

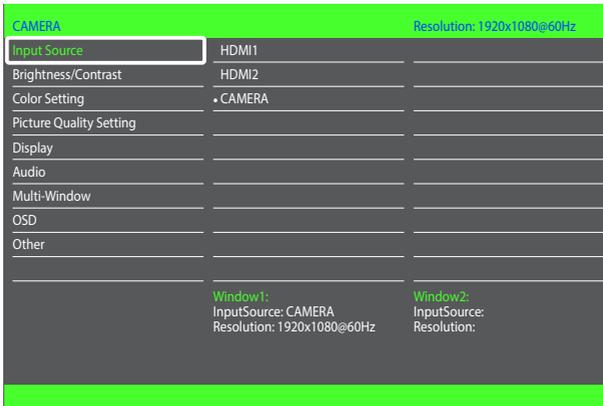
Selecting OSD menu

You can select the OSD menu by pressing the [MENU/EXIT] button on the remote controller.

1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** buttons to select the main menu, and then press the **ENTER** or **▶** button.
3. Press the **▲/▼** buttons to select the sub-menu, and then press the **ENTER** or **▶** button.
4. Press the **▲/▼** buttons to adjust the adjustment value.
5. Press the **MENU/EXIT** button to exit.

Input Source

1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** button to select **<Input Source>**, and then press the **ENTER** or **▶** button.



- HDMI 1 : Select external HDMI1 input
- HDMI 2 : Select external HDMI2 input
- CAMERA : Select internal Camera input

menu settings

Brightness/Contrast

1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** button to select **<Brightness/Contrast>**, and then press the **ENTER** or **▶** button.

| CAMERA | | Resolution: 1920x1080@60Hz |
|---|------------|---|
| Input Source | Brightness | 80 |
| Brightness/Contrast | Contrast | 50 |
| Color Setting | | |
| Picture Quality Setting | | |
| Display | | |
| Audio | | |
| Multi-Window | | |
| OSD | | |
| Other | | |
| Window1: InputSource: CAMERA Resolution: 1920x1080@60Hz | | Window2: InputSource: Resolution: |

- Brightness : Adjusts the brightness of the screen. (Adjust 0 ~ 100)
- Contrast : Adjusts the difference in brightness between the object and the environment. (Adjust 0 ~ 100)

Color Setting

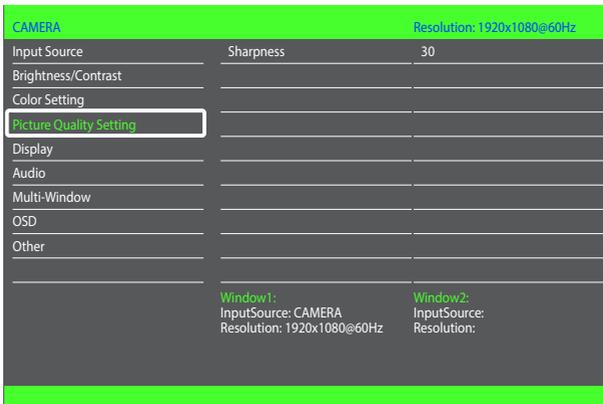
1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** button to select **<Color Setting>**, and then press the **ENTER** or **▶** button.

| CAMERA | | Resolution: 1920x1080@60Hz |
|---|-------------------|---|
| Input Source | Gamma | 2.2 |
| Brightness/Contrast | Picture Mode | Standard |
| Color Setting | Color Temperature | Normal |
| Picture Quality Setting | Hue | 50 |
| Display | Saturation | 50 |
| Audio | | |
| Multi-Window | | |
| OSD | | |
| Other | | |
| Window1: InputSource: CAMERA Resolution: 1920x1080@60Hz | | Window2: InputSource: Resolution: |

- Gamma : Adjust the mid-range brightness (Gamma) of the screen.(1.8/2.0/2.2/2.4/2.6)
- Picture Mode : Select a screen mode appropriate for your viewing environment. (Standard/Photo/ Movie/Game)
- Color Temp. : The color temperature can be adjusted and used depending on the monitor color. (Warm/Normal/Cool/USER)
- Hue : Adjusts the color of the screen. (Adjust 0 ~ 100)
- Saturation : Adjusts the saturation of the screen. (Adjust 0 ~ 100)

Picture Quality Setting

1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** button to select **<Picture Quality Setting>**, and then press the **ENTER** or **▶** button.



- Sharpness : Adjusts the sharpness of the screen. (Adjust 0 ~ 100)

menu settings

Display

1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** button to select **<Display>**, and then press the **ENTER** or **▶** button.

| CAMERA | | Resolution: 1920x1080@60Hz |
|---|--------------|---|
| Input Source | Aspect Ratio | Wide Screen |
| Brightness/Contrast | | |
| Color Setting | | |
| Picture Quality Setting | | |
| Display | | |
| Audio | | |
| Multi-Window | | |
| OSD | | |
| Other | | |
| Window1: InputSource: CAMERA Resolution: 1920x1080@60Hz | | Window2: InputSource: Resolution: |

- Aspect Ratio : You can select a screen size you want. (Wide Screen/4:3/1:1/Auto)

Audio

1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** button to select **<Audio>**, and then press the **ENTER** or **▶** button.

| CAMERA | | Resolution: 1920x1080@60Hz |
|---|--------|---|
| Input Source | Mute | off |
| Brightness/Contrast | Volume | 50 |
| Color Setting | | |
| Picture Quality Setting | | |
| Display | | |
| Audio | | |
| Multi-Window | | |
| OSD | | |
| Other | | |
| Window1: InputSource: CAMERA Resolution: 1920x1080@60Hz | | Window2: InputSource: Resolution: |

- Mute : You can set whether to use the mute function. (On/Off)
- Volume : You can adjust the volume. (Adjust 0 ~ 100)

Multi-Window

1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** button to select **<Multi-Window>**, and then press the **ENTER** or **▶** button.

| CAMERA | | Resolution: 1920x1080@60Hz |
|-------------------------|--|--|
| Input Source | Multi-Window | Off |
| Brightness/Contrast | Sub Win2 Input | CAMERA |
| Color Setting | PIP Size | Large |
| Picture Quality Setting | PIP Position | BottomRight |
| Display | Swap | |
| Audio | | |
| Multi-Window | | |
| OSD | | |
| Other | | |
| | Window1: InputSource: CAMERA Resolution: 1920x1080@60Hz | Window2: InputSource: Resolution: |

- Multi-Window : You can select Picture in Picture (PIP) or Picture by Picture (PBP) mode. (Off/PIP Mode/PBP 2Win)
- Sub Win2 Input : Displays the currently output Sub Win2 Input. (HDMI1/CAMERA)
- PIP Size : You can adjust the size of the sub-screen in PIP mode. (Small/Medium/Large)
- PIP Position : You can adjust the position of the sub-screen in PIP mode. (TopRight/TopLeft/BottomRight/BottomLeft)
- Swap : You can switch between the main screen and sub-screen in PIP or PBP mode.

menu settings

OSD

1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** button to select **<OSD>**, and then press the **ENTER** or **▶** button.

| CAMERA | | Resolution: 1920x1080@60Hz |
|----------------------------|------------------|----------------------------|
| Input Source | Language | English |
| Brightness/Contrast | OSD H-Position | 50 |
| Color Setting | OSD V-Position | 50 |
| Picture Quality Setting | OSD Transparency | 50 |
| Display | OSD Time Out | 20 |
| Audio | OSD Rotatio | Normal |
| Multi-Window | | |
| OSD | | |
| Other | | |
| Window1: | | Window2: |
| InputSource: CAMERA | | InputSource: |
| Resolution: 1920x1080@60Hz | | Resolution: |

- Language : Select the screen language. (English/Español/Français)
- OSD H-Position : Moves the screen of the menu to the left or right. (Adjust 0 ~ 100)
- OSD V-Position : Moves the screen position of the menu up or down. (Adjust 0 ~ 100)
- OSD Transparency : Sets the transparency of the menu screen. (Adjust 0 ~ 100)
- OSD Time Out : The menu screen disappears if the screen does not change for a certain period of time. (Adjust 0 ~ 100)
- OSD Rotation : You can rotate the menu screen. (Normal/90/180/270)

Other

1. Press the **MENU/EXIT** button to enter the main menu.
2. Press the **▲/▼** button to select **<Other>**, and then press the **ENTER** or **▶** button.



- USB Update FW : The monitor can be updated by connecting a USB to the USB port. (Idle/Writing)
- Reset : Resets the monitor settings to default.

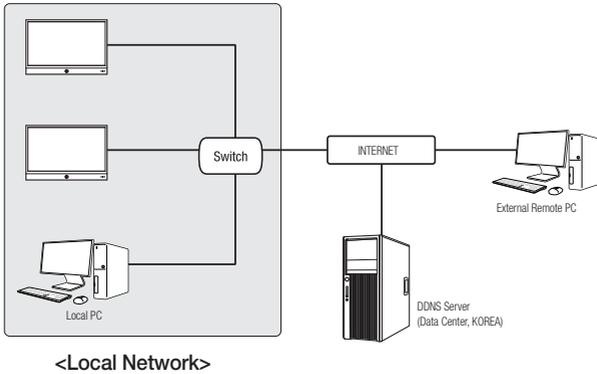
network connection and setup & webviewer

You can set up the network settings according to your network configurations.

CONNECTING THE PVM DIRECTLY TO LOCAL AREA NETWORKING

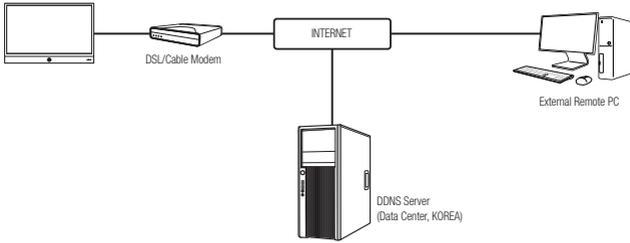
Connecting to the PVM from a local PC in the LAN

1. Launch an Internet browser on the local PC.
2. Enter the IP address of the PVM in the address bar of the browser.



- A remote PC in an external Internet out of the LAN network may not be able to connect to the PVM installed in the intranet if the port-forwarding is not properly set or a firewall is set. In this case, to resolve the problem, contact your network administrator.
- By factory default, the IP address will be assigned from the DHCP server automatically. If there is no DHCP server available, the IP address will be set to 192.168.1.100. To change the IP address, use the Device Manager. For further details on Device Manager use, refer to "**Using Device Manager**". (Page 20)

CONNECTING THE PVM DIRECTLY TO A DHCP BASED DSL/CABLE MODEM



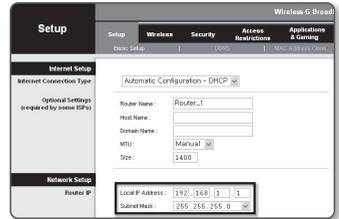
1. Connect the user PC directly with the PVM.
2. Run the Device Manager and change the IP address of the PVM so that you can use the web browser on your desktop to connect to the Internet.
3. Use the Internet browser to connect to the web viewer.
4. Move to **[Setup]** page.
5. Move to **[Network]** – **[DDNS]** and configure the DDNS settings.
6. Move to **[Basic]** – **[IP & Port]**, and set the IP type to **[DHCP]**.
7. Connect the PVM, which was removed from your PC, directly to the modem.
8. Restart the camera.



- For information on how to set DDNS, refer to the online help of Web Viewer.
- For information on how to set the IP format, refer to the online help of Web Viewer.

If using a Broadband Router

- IP Address : Enter an address falling in the IP range provided by the Broadband Router.
ex) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : The <Subnet Mask> of the Broadband Router will be the <Subnet Mask> of the camera.
- Gateway : The <Local IP Address> of the Broadband Router will be the <Gateway> of the camera.



- The settings may differ depending on the connected Broadband Router model. For more information, refer to the user manual of the applicable router.
- For more information about port forwarding of the broadband router, refer to "**Port Range Forward (Port Mapping) Setup**". (Page 23)

If the Broadband Router has more than one camera connected

Configure the IP related settings and the Port related settings distinctly with each other.

ex)

| Category | | Camera #1 | Camera #2 |
|-----------------------|-------------|---------------|---------------|
| IP related settings | IP Address | 192.168.1.100 | 192.168.1.101 |
| | Subnet Mask | 255.255.255.0 | 255.255.255.0 |
| | Gateway | 192.168.1.1 | 192.168.1.1 |
| Port related settings | HTTP Port | 8080 | 8081 |
| | RTSP Port | 554 | 555 |



- If the <HTTP Port> is set other than 80, you must provide the <Port> number in the address bar of the Internet browser before you can access the camera.
ex) http://IP address : HTTP Port
http://192.168.1.100:8080

5. Click [Apply] Button.

6. If the success message is displayed, click [OK].

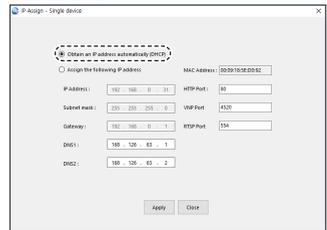
network connection and setup & webviewer

Configuring Dynamic IP

Receive IP address from DHCP

- Example of the Dynamic IP environment
 - If a Broadband Router, with cameras connected, is assigned an IP address by the DHCP server
 - If connecting the camera directly to modem using the DHCP protocols
 - If IPs are assigned by the internal DHCP server via the LAN

1. Click the camera from the list that you want to change the IP setting.
2. Click **<IP Assign>** at the main page of device manager.
3. Select **<Obtain an IP address automatically (DHCP)>**.
4. Click **[Apply]** button.
5. If the success message is displayed, click **[OK]**.



MANUALLY REGISTERING CAMERA

If the camera cannot be found using search function, the camera can be registered remotely by manually inserting IP information, if the camera is connected to external network.

1. Click **<Add Devices>** - **<Manually Add Device>** at the main page of device manager.
2. Insert the range of IP address that you search.
3. Select the **<Model Name>** of the camera that you register, and insert HTTP port, ID, and password.
4. Click **[Register]** button.
5. Check if camera is registered.
 - Check MAC address at the sticker attached to the camera.



AUTOMATICALLY CONFIGURING IP

1. Click the camera from the list that you want to automatically configure the IP.
2. Click < + > at the main page of device manager.
 - Equipment Setting menu appears.
3. At the menu, click <Auto IP Configure>.
4. Click [Close] button.

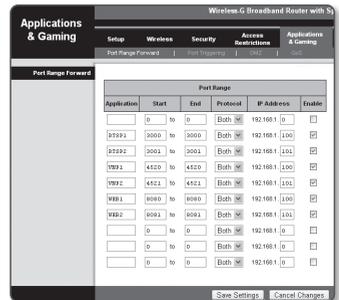


PORT RANGE FORWARD (PORT MAPPING) SETUP

If you have installed a Broadband Router with a camera connected, you must set the port range forwarding on the Broadband Router so that a remote PC can access the camera in it.

Manual Port Range Forwarding

1. From the Setup menu of the Broadband Router, select <Applications & Gaming> - <Port Range Forward>. For setting the port range forward for a third-party Broadband Router, refer to the user guide of that Broadband Router.
2. Select <TCP> and <UDP Port> for each connected camera to the Broadband Router. The number of each port to be configured to the IP router should be set according to the port number designated in <Setup> - <Basic> - <IP & Port> on the camera web viewer.
3. When done, click [Save Settings]. Your settings will be saved.



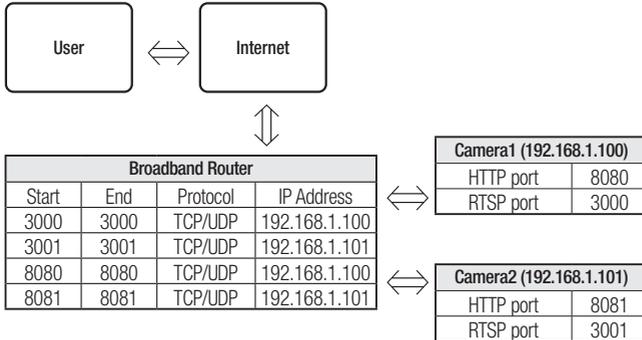
- Port forwarding setting is an example of setting CISCO IP router.
- The settings may differ depending on the connected Broadband Router model. For more information, refer to the user manual of the applicable router.

network connection and setup & webviewer

Setting up Port Range Forward for several network cameras

- You can set a rule of Port Forwarding on the Broadband Router device through its configuration web page.
- A user can change each port using the camera setting screen.

When Camera1 and Camera2 are connected to a router :



- Port forwarding can be done without additional router setup if the router supports the UPnP (Universal Plug and Play) function.
After connecting the network camera, select the checkbox from the menu <Quick connect> in <DDNS> in "Settings -> Network -> DDNS".

CONNECTING TO THE CAMERA FROM A SHARED LOCAL PC

1. Run device manager.
It will scan for connected cameras and display them as a list.
2. Double-click a camera to access.
The Internet browser starts and connects to the camera.



- Access to the camera can also be gained by typing the camera's IP address in the address bar of the Internet browser.

CONNECTING TO THE CAMERA FROM A REMOTE PC VIA THE INTERNET

On a remote computer that is not in the Broadband Router's network cluster is not allowed, users can access cameras within a Broadband Router's network by using the camera's DDNS URL.

1. Before you can access a camera in the Broadband Router network, you should have set the port range forward for the Broadband Router.
2. From the remote PC, launch the Internet browser and type the DDNS URL address of the camera, or the IP address of the Broadband Router in the address bar.
ex) <http://ddns.hanwha-security.com/ID>

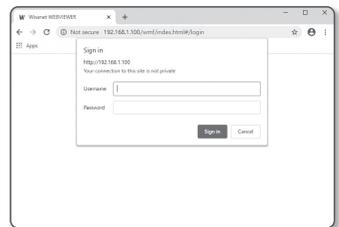


- To use DDNS, sign up at the DDNS homepage (<http://ddns.hanwha-security.com>) and register the product at **[My DDNS]>[Register Product]**.

CONNECTING TO THE CAMERA

Normally, you would

1. Launch the Internet browser.
2. Type the IP address of the camera in the address bar.
ex) • IP address (IPv4) : 192.168.1.100 → <http://192.168.1.100>
- the Login dialog should appear.
• IP address (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111
→ [http://\[2001:230:abcd:ffff:0000:0000:ffff:1111\]](http://[2001:230:abcd:ffff:0000:0000:ffff:1111]) - the Login dialog should appear.



network connection and setup & webviewer

If the HTTP port is other than 80

1. Launch the Internet browser.

Type the IP address and HTTP port number of the camera in the address bar.

ex) IP address : 192.168.1.100:HTTP Port number(8080)

→ <http://192.168.1.100:8080> - the Login dialog should appear.

Using URL

1. Launch the Internet browser.

2. Type the DDNS URL of the camera in the address bar.

ex) URL address : <http://ddns.hanwha-security.com/ID>

- the Login dialog should appear.



▪ Network connection is disabled in the LAN only environment.

Connecting via UPnP

1. Run the client or operating system in support of the UPnP protocol.

2. Click the camera name for search.

In the Windows operating system, click the camera name searched from the network menu.

- The login window is displayed.

Connecting via Bonjour

1. Run the client or operating system in support of the Bonjour protocol.

2. Click the camera name for search.

In the Mac operating system, click the camera name searched from the Bonjour tab of Safari.

- The login window is displayed.

To check the DDNS address

If the camera is connected directly to a DHCP-based cable modem or DSL modem, the IP address will change each time it tries to connect to the ISP (the company you subscribed to).

If this is the case, you will not be informed of the IP address changed by DDNS.

Once you register a dynamic IP-based device with the DDNS server, you can easily check the changed IP when you try to access the device.

To register your device to the <DDNS> server, visit <http://ddns.hanwha-security.com> and register your device first, and then set the Web Viewer's <Network> - <DDNS> to <DDNS>, as well as providing <Product ID> that had been used for DDNS registration.

PASSWORD SETTING

When you access the product for the first time, you must register the login password.



- For a new password with 8 to 9 characters, you must use at least 3 of the following: uppercase/lowercase letters, numbers and special characters. For a password with 10 characters or longer, you must use at least 2 types of those mentioned. (support up to 64 characters)
 - Special characters that are allowed: `~!@#%&^&'()*_-+=[]{}|;:"'<>.,?/`
- Space is not allowed for password.
- For higher security, you are not recommended to repeat the same characters or consecutive keyboard inputs for your passwords.
- If you lost your password, you can press the **[RESET]** button to initialize the product. So, don't lose your password by using a memo pad or memorizing it.

Administrator password change

New password

Confirm new password

- If the password is 8 to 9 characters long, it must include at least 3 of the following character types: English uppercase letters, English lowercase letters, numbers, and special characters. (support up to 64 characters)
- If the password is 10 characters or longer, it must include at least 2 of the following character types: English uppercase letters, English lowercase letters, numbers, and special characters.
- ID may not be used as password. The password and ID cannot be identical.
- The following special characters can be used: ~!@#%&^&'()*_-+=[]{}|;:"'<>.,?/
- You may not use more than 4 consecutive characters, (example: 1234abcd, etc.)
- You may not use the same character 4 or more times consecutively, (example: III, 1111, aaaa, etc.)

LOGIN

Whenever you access the camera, the login window appears. Enter the User ID and password to access the camera.

- Enter **"admin"** in the **<User name>** input box. The administrator ID, **"admin"**, is fixed and can not be changed.
- Enter the password in the **<Password>** input field.
- Click **[Sign in]**.
If you have logged in successfully, you will the Live Viewer screen.

Sign in
http://192.168.1.100
Your connection to this site is not private

Username

Password



- When you access the camera web viewer, pay special attention to the security by checking whether the image data is encrypted.



- You will experience the best video quality if the screen size is 100%. Reducing the ratio may cut the image on the borders.

CAMERA WEB VIEWER SETUP

- Click the **[Setup (⚙)]** icon.
- The Settings window appears.
- You can configure settings for the camera's basic information, video, audio, network, event, analysis, and system over the network.
- Click **<Help (?)>** to view detailed descriptions of each function.

setup screen

SETUP

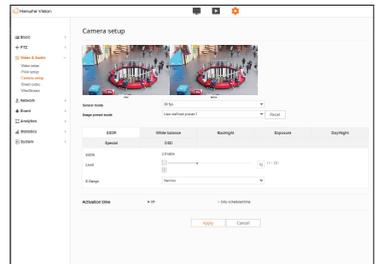
On the network, you can set up basic information on the camera, video and audio, network, events, people counting, heatmap and system.

1. On the live screen, click the **[Setup (⚙)]** button.
2. The Setup screen appears.



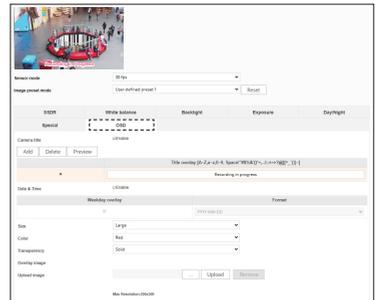
CREATING A TEXT OVERLAY

1. From the Setup menu, select the **<Video & Audio>** tab.
2. Click **<Camera setup>**.



3. Select **<OSD>**.
 - The default setting for OSD is "Recording in Progress."

4. Select each item and set it properly.
 - Camera title : It specifies the name of the camera to be displayed on the screen. Select the **<Enable>** check box to add a camera name.
 - Add : Click the **<Add>** button and you can add a total of 5 lines, 21 characters per line and a total of 105 characters.
 - Preview : Click the **<Preview>** button to check the name of camera that will be displayed on the screen.



- Date & time : Set the time display and date formats on the screen.
- Weekday overlay : Specify the use of date display date on the screen.
- Size : Sets the size of OSD to small/medium/large.
- Color : Sets the color of the OSD to White/Red/Blue/Green/Black/Ggray.
- Transparency : Sets the transparency of OSD to Solid / Low / Middle / High.
- Overlay image : You can display the image you want on the screen.
- Upload image : [...] button can be clicked to search files in bitmap format. Click the **[Upload]** button to upload image files. To delete image files applied to the screen, click the **[Remove]** button.

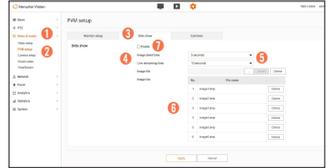


- A position-adjustable item (Camera title, Date & Time, Overlay image) may not be displayed normally if it overlaps with another fixed OSD item.
- Multilingual other than English: Input only in the selected language is available.

SETTING SLIDE SHOW

Slide show setup

1. From the Setup menu, select the <Video & Audio setup> tab.
2. Click <PVM setup>.
3. Click <Slide show>.
4. Set Image dwell time/Live streaming time.
5. Select an image to upload and click <Install>. Then, file conversion and upload will automatically proceed.
 - During the process, do not power off camera or move to another page because doing so will make the process to fail.
6. Once successfully uploaded, the uploaded file name will appear in the image list.
7. Checking the Enable box runs the feature.



Motion detection menu setup

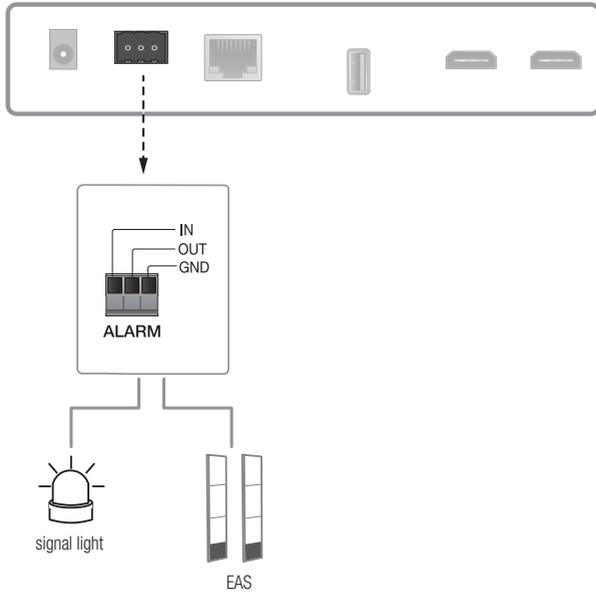
1. From the Setup menu, select the <Analytic> tab.
2. Click <Motion detection>.
3. Set the desired detection area/sensitivity and others.
4. If motion is detected, it changes from Still image to Live video.
 - If you enable only Slide show but not Motion detection, only Still image will be shown.



SETTING ALARM INPUT

Connecting to the I/O port box

Connect the Alarm I/O cable to the corresponding port of the port box.

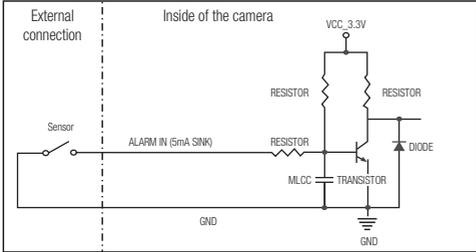


- ALARM-IN : Used to connect the alarm input sensor.
- ALARM-OUT : Used to connect the alarm output signal.
- GND : Common port for alarm in/output signal.

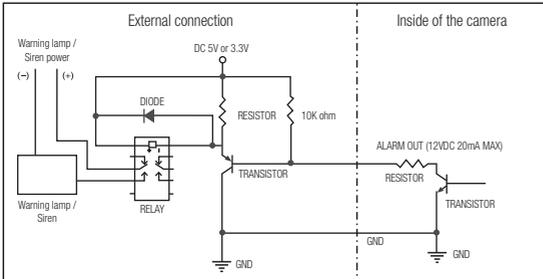


- If devices (e.g., flashing light and siren) that exceed the voltage and current specifications are connected by using the open collector method, it may cause malfunction. Refer to the **"Alarm Out Wiring Diagram"** when connecting devices that exceed the voltage and current specifications.

Alarm In Wiring Diagram



Alarm Out Wiring Diagram

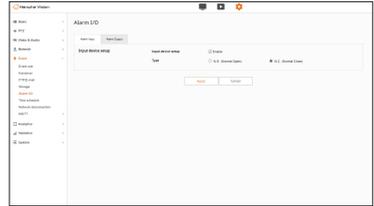


setup screen

Alarm input

You can set the alarm input type, activation time, and operation mode.

1. From the Setup menu, select the **<Event>** tab.
2. Click **<Alarm I/O>**.
3. Select **<Alarm Input>**.
4. Set whether or not to **<Enable>**.

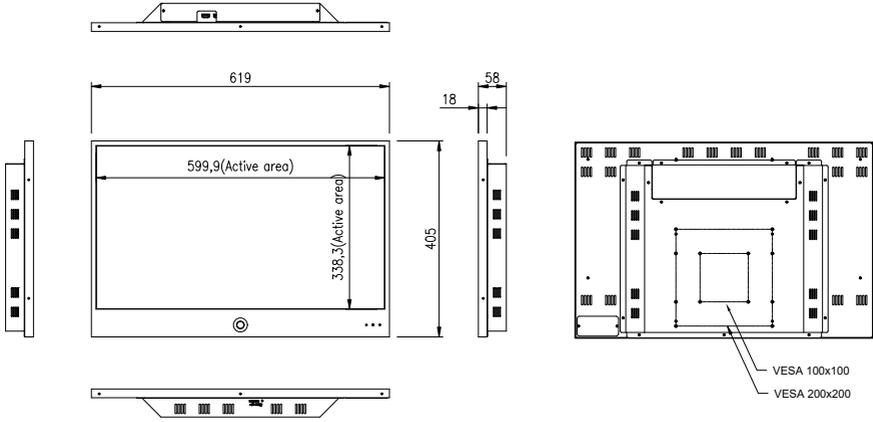


5. Select the type.
 - N.O. (Normal Open) : It is normally open, but if it is closed, an alarm will be triggered.
 - N.C. (Normal Close) : It is normally closed, but if it is open, an alarm will be triggered.
5. Specify the **<Event activation time>**.
 - Always : Always check if an alarm occurs. It activates in operated mode when the alarm occurs.
 - If set to **<Always>**, the activation time cannot be changed.
 - Only scheduled time : Check if an alarm occurs at a specified day of the week for a specified time period. It activates in operated mode when the alarm occurs.
 - [1 min 30 min 1 h] : Sets the time display format on the vertical axis.
 - [Reset] : Reset all settings.
6. Specify an operation that will perform if an alarm occurs.
 - FTP : Specify the use of FTP transfer in the alarm input setup.
 - E-mail : Specify the use of email transfer in the alarm input setup.
 - Record : You can set up the alarm to record to a Micro SD card or an NAS when operating.
 - Alarm output1 : Select whether to set the alarm output if an alarm is incoming, and specify the alarm output time.
7. When done, click **[Apply]**.

MECHANICAL

SMT-2731PV

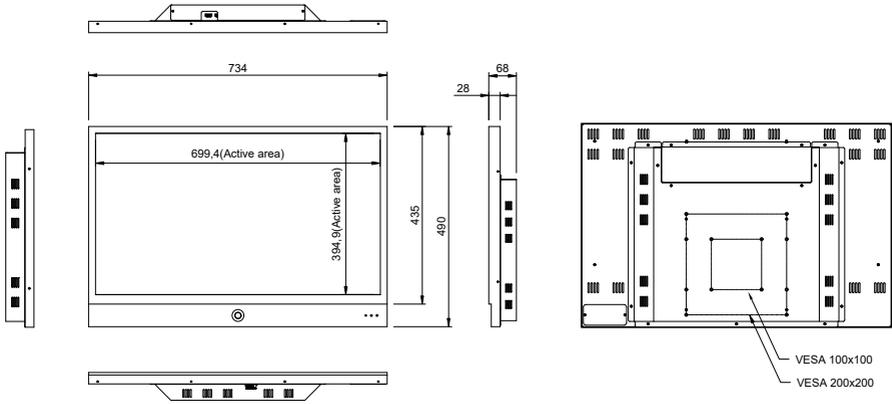
unit : mm



- Since the use of a screw longer than the standard size may cause a problem, the above recommended screw must be used.

SMT-3231PV

unit : mm



- Since the use of a screw longer than the standard size may cause a problem, the above recommended screw must be used.

TROUBLESHOOTING

When the following troubles are occurred, follow the trouble shooting.
Before contacting service center.

| Problems and Symptoms | Troubleshooting |
|------------------------------------|--|
| The screen doesn't show up | <ul style="list-style-type: none">• Make sure if the power supply is connected property• Turn on the power.• Select the input signal right for the connected port. |
| The screen is too light or to dark | <ul style="list-style-type: none">• Control the BRIGHTNESS |



Hanwha Vision 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 Hanwha Vision's 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.



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

