

# SECURITY LED MONITOR

User Manual

SMT-4345



# Security LED Monitor

## User Manual

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※ Design and specifications are subject to change without prior notice.

IMPORTANT SAFETY INSTRUCTIONS

- Read these operating instructions carefully before using the unit.  
Follow all the safety instructions listed below.  
Keep these operating instructions handy for future reference.
- 1) Read these instructions.
  - 2) Keep these instructions.
  - 3) Heed all warnings.
  - 4) Follow all instructions.
  - 5) Do not use this apparatus near water.
  - 6) Clean the contaminated area on the product surface with a soft, dry cloth or a damp cloth.  
(Do not use a detergent or cosmetic products that contain alcohol, solvents or surfactants or oil constituents as they may deform or cause damage to the product.)
  - 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
  - 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
  - 9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
  - 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
  - 11) Only use attachments/accessories specified by the manufacturer.
  - 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
  - 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
  - 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Standards Approvals



- ! Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
-  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.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.  
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

BEFORE START

- You have to keep in mind the following notices :
- Hanwha Vision retains the copyright on this manual.
  - This manual cannot be copied without Hanwha Vision's prior written approval.
  - We are not liable for any or all losses to the product incurred by your use of non-standard product or violation of instructions mentioned in this manual.
  - Contact the retailer for troubleshooting help.

SAFETY INSTRUCTIONS

| Power                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Do not use a damaged power cord or plug or a damaged or loose power outlet. <ul style="list-style-type: none"><li>Otherwise, this may result in electric shock or fire.</li></ul>                                                                                                                               | Do not touch the power plug with wet hands when removing or plugging the plug into the outlet. <ul style="list-style-type: none"><li>Otherwise, this may result in electric shock</li></ul>                                                                                                            | Make sure to connect the power cord to a grounded power outlet. <ul style="list-style-type: none"><li>Otherwise, it may result in electric shock or personal injury.</li></ul>                                |
| Ensure that the power plug is plugged into the power outlet firmly and correctly. <ul style="list-style-type: none"><li>Otherwise, this may result in fire.</li></ul>                                                                                                                                           | Do not forcefully bend or pull the power plug and do not place any heavy material on it. <ul style="list-style-type: none"><li>Otherwise, this may result in fire.</li></ul>                                                                                                                           | Do not connect multiple appliances to the same power outlet. <ul style="list-style-type: none"><li>Otherwise, this may cause fire due to overheating.</li></ul>                                               |
| Do not disconnect the power cord while using the product. <ul style="list-style-type: none"><li>Otherwise, this may result in damage to the product due to electric shock.</li></ul>                                                                                                                            | To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable. <ul style="list-style-type: none"><li>Otherwise, this may cause electric shock or fire.</li></ul>                                                   | Use only the power cord provided by our company. Do not use the provided power cord of another product. <ul style="list-style-type: none"><li>Otherwise, this may result in fire or electric shock.</li></ul> |
| Connect the power plug to a wall outlet that can be easily reached. <ul style="list-style-type: none"><li>When a problem occurs with the product, you must unplug the power plug to cut the power off completely. You cannot cut the power off completely using only the power button on the product.</li></ul> |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                               |
| Installation                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                               |
| Ensure that at least two persons lift and move the product. <ul style="list-style-type: none"><li>Otherwise, it may be dropped and cause personal injury, and/ or damage the product.</li></ul>                                                                                                                 | When installing the product in a cabinet or rack, make sure that the front end of the bottom of the product does not project out. <ul style="list-style-type: none"><li>Otherwise, it may fall or cause personal injury.</li><li>Use a cabinet or rack of a size appropriate to the product.</li></ul> | Do not place candles, mosquito repellent, cigarettes and any heating appliances near the product. <ul style="list-style-type: none"><li>Otherwise, this may result in fire.</li></ul>                         |
| Keep heating appliances as far away from the power cord or the product as possible. <ul style="list-style-type: none"><li>Otherwise, this may result in electric shock or fire.</li></ul>                                                                                                                       | Do not install it in a badly ventilated location such as a bookcase or closet. <ul style="list-style-type: none"><li>Otherwise, this may result in fire due to an increase in the internal temperature.</li></ul>                                                                                      | When putting the product down, make sure to put it down softly. <ul style="list-style-type: none"><li>Otherwise, this may result in damage to the screen display.</li></ul>                                   |

| Do not place the front of the product on the floor. <ul style="list-style-type: none"><li>Otherwise, this may result in damage to the screen display.</li></ul>                                                                                                                                                                                               | Ensure that an authorized installation company installs the wall mount. <ul style="list-style-type: none"><li>Otherwise, it may fall and cause personal injury.</li><li>Make sure to install the specified wall mount.</li></ul>         | Install your product in a well ventilated location. Ensure that there is a clearance of more than 4 inches (10 cm) from the wall. <ul style="list-style-type: none"><li>Otherwise, it may result in fire due to an increase in the internal temperature.</li></ul>                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ensure that the packaging vinyl is kept away from children. <ul style="list-style-type: none"><li>Otherwise, it may result in serious harm (suffocation) if children play with it.</li></ul>                                                                                                                                                                  | If the height of your monitor is adjustable, do not place any object or part of your body on the stand when lowering it. <ul style="list-style-type: none"><li>This may cause damage to the product or the person carrying it.</li></ul> |                                                                                                                                                                                                                                                                                             |
| Clean                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                             |
| Do not spray cleaner directly onto the surface of the product. <ul style="list-style-type: none"><li>Otherwise, this may result in the discoloration and distortion of the structure and the screen surface may peel off.</li></ul>                                                                                                                           | When cleaning the power plug pins or dusting the power outlet, clean it with a dry cloth. <ul style="list-style-type: none"><li>Otherwise, it may result in fire.</li></ul>                                                              | When cleaning the product, make sure to disconnect the power cord. <ul style="list-style-type: none"><li>Otherwise, it may result in electric shock or fire.</li></ul>                                                                                                                      |
| When cleaning the product, disconnect the power cord and clean it with a soft, dry cloth. <ul style="list-style-type: none"><li>(Do not use chemicals such as wax, benzene, alcohol, thinner, mosquito repellent, lubricant, or cleaner.) These may change the appearance of the product surface and peel off the indication labels on the product.</li></ul> | Since the product housing is easily scratched, make sure to use the specified cloth only.                                                                                                                                                | When cleaning the product, do not spray water directly onto the main body of the product. <ul style="list-style-type: none"><li>Ensure that water does not enter the product and that it is not wet.</li><li>Otherwise, this may result in electric shock, fire or a malfunction.</li></ul> |

| Others                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The product is a high voltage product. Do not disassemble, repair or modify the product yourself.</p> <ul style="list-style-type: none"> <li>Otherwise, this may result in electric shock or fire. If the product needs to be repaired, contact a Service Center.</li> </ul>                 | <p>If there is a strange smell or a strange sound or smoke is coming from the product, disconnect the power plug immediately and contact a Service Center.</p> <ul style="list-style-type: none"> <li>Otherwise, this may result in electric shock or fire.</li> </ul>                                                                                                                                                                       | <p>Do not place this product in a location exposed to moisture, dust, smoke, water, or in a car.</p> <ul style="list-style-type: none"> <li>Otherwise, this may result in electric shock or fire.</li> </ul>                                                                                                                                                                      |
| <p>When you drop the product or the case is broken, turn the power off and disconnect the power cord. Contact a Service Center.</p> <ul style="list-style-type: none"> <li>Otherwise, this may result in electric shock or fire.</li> </ul>                                                     | <p>Never touch the power cord during a thunderstorm because it could be extremely dangerous.</p> <ul style="list-style-type: none"> <li>Otherwise, this may result in electric shock or fire.</li> </ul>                                                                                                                                                                                                                                     | <p>Do not try to move the monitor by pulling only the wire or the signal cable.</p> <ul style="list-style-type: none"> <li>Otherwise, it may fall and result in electric shock, damage to the product or fire due to damage to the cable.</li> </ul>                                                                                                                              |
| <p>Do not lift or move the product back and forwards or right and left while only holding the power cord or signal cables.</p> <ul style="list-style-type: none"> <li>Otherwise, it may fall and result in electric shock, damage to the product or fire due to damage to the cable.</li> </ul> | <p>Make sure that the ventilating opening is not blocked by a table or curtain.</p> <ul style="list-style-type: none"> <li>Otherwise, it may result in fire due to an increase in the internal temperature.</li> </ul>                                                                                                                                                                                                                       | <p>Do not place any containers containing water, vases, flowerpots, medicines as well as any metal on the product.</p> <ul style="list-style-type: none"> <li>If water or a foreign material enters the product, disconnect the power cord and contact a Service Center.</li> <li>This may result in a product malfunction, electric shock, or fire.</li> </ul>                   |
| <p>Do not use or keep combustible spray or flammable material near the product.</p> <ul style="list-style-type: none"> <li>Otherwise, this may result in an explosion or fire.</li> </ul>                                                                                                       | <p>Do not insert any metal, such as chopsticks, coins, pins and steel, or flammable objects, such as matches or paper, inside the product (through the ventilating openings, input and output terminals, etc).</p> <ul style="list-style-type: none"> <li>If water or foreign material enters the product, disconnect the power cord and contact a Service Center.</li> <li>Otherwise, this may result in electric shock or fire.</li> </ul> | <p>When using a fixed screen for a long time, an afterimage or stain may occur.</p> <ul style="list-style-type: none"> <li>If you are not going to use the product for an extended period of time, set it to sleep mode.</li> </ul>                                                                                                                                               |
| <p>When using headphones or earphones, do not turn the volume too high.</p> <ul style="list-style-type: none"> <li>Having the sound too loud may damage your hearing.</li> </ul>                                                                                                                | <p>To avoid eyestrain, do not sit too close to the product.</p>                                                                                                                                                                                                                                                                                                                                                                              | <p>Do not install it in an unstable location such as an unstable rack or uneven surface or a location exposed to vibrations.</p> <ul style="list-style-type: none"> <li>Otherwise, it may fall and cause personal injury and/or damage the product.</li> <li>If you use the product in a location exposed to vibrations, it may damage the product and result in fire.</li> </ul> |

|                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>If you have to move the product, turn off the power and disconnect the power plug and all the cables connected to the product.</p> <ul style="list-style-type: none"> <li>Otherwise, it may result in electric shock or fire.</li> </ul>                                                                     | <p>Ensure that children do not hang onto the product or climb up onto the product.</p> <ul style="list-style-type: none"> <li>The product may fall and cause personal injury or death.</li> </ul>                                                                                                                                                                                                                                           | <p>If you do not use the product for a long period of time, disconnect the power cord from the power outlet.</p> <ul style="list-style-type: none"> <li>Otherwise, this may result in overheating or fire due to dust, and may result in fire due to electric shock or leakage.</li> </ul>                   |
| <p>Do not place any heavy items or toys or confectionery, such as cookies etc. that may attract the attention of children and to the product.</p> <ul style="list-style-type: none"> <li>Your children may hang onto the product causing it to fall and this may result in personal injury or death.</li> </ul> | <p>Be careful that children do not place the battery in their mouths when removed from the remote control. Place the battery in a location that children or infants cannot reach.</p> <ul style="list-style-type: none"> <li>If children have had the battery in their mouths, consult your doctor immediately.</li> </ul>                                                                                                                  | <p>When replacing the battery, insert it with the right polarity (+, -).</p> <ul style="list-style-type: none"> <li>Otherwise, the battery may become damaged or it may cause fire, personal injury or damage due to leakage of the internal liquid.</li> </ul>                                              |
| <p>Use only the specified standardized batteries, and do not use a new battery and a used battery at the same time.</p> <ul style="list-style-type: none"> <li>Otherwise, the batteries may be damaged or cause fire, personal injury or damage due to a leakage of the internal liquid.</li> </ul>             | <p>The batteries (and rechargeable batteries) are not ordinary refuse and must be returned for recycling purposes. The customer is responsible for returning the used or rechargeable batteries for recycling.</p> <ul style="list-style-type: none"> <li>The customer can return used or rechargeable batteries to a nearby public recycling center or to a store selling the same type of the battery or rechargeable battery.</li> </ul> | <p>Do not place the product in a location exposed to direct sunlight or near any heat such as a fire or heater.</p> <ul style="list-style-type: none"> <li>This may reduce the lifetime of the product, and may result in fire.</li> </ul>                                                                   |
| <p>Do not drop any objects onto the product or cause any impact to the product.</p> <ul style="list-style-type: none"> <li>Otherwise, this may result in electric shock or fire.</li> </ul>                                                                                                                     | <p>Do not use a humidifier near the product.</p> <ul style="list-style-type: none"> <li>Otherwise, this may result in electric shock or fire.</li> </ul>                                                                                                                                                                                                                                                                                    | <p>When there is a gas leak, do not touch the product or the power plug; ventilate immediately.</p> <ul style="list-style-type: none"> <li>If a spark occurs, it may cause an explosion or fire.</li> </ul>                                                                                                  |
| <p>If the product has been turned on for a long time, the display panel becomes hot. Do not touch it.</p>                                                                                                                                                                                                       | <p>Keep the small accessories in a location out of the reach of children.</p>                                                                                                                                                                                                                                                                                                                                                               | <p>Be careful when adjusting the angle of the product or the height of the stand.</p> <ul style="list-style-type: none"> <li>This may result in personal injury as your hand or fingers may become caught.</li> <li>Also, if you tilt the product too far, it may fall and cause personal injury.</li> </ul> |
| <p>Do not install the product in a location low enough for children to reach.</p> <ul style="list-style-type: none"> <li>Otherwise, it may fall and result in personal injury.</li> <li>Since the front part of the product is heavy, install the product on a level and stable surface.</li> </ul>             | <p>Do not put any heavy objects on the product.</p> <ul style="list-style-type: none"> <li>This may result in personal injury and/or damage to the product.</li> </ul>                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |

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APPENDIX

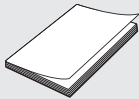
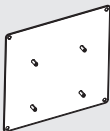
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## PACKAGE CONTENTS

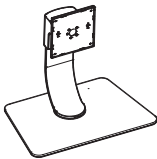
Please unwrap the product, and place the product on a flat place or in the place to be installed.  
Please check the following contents are included in addition to the main unit.

- Accessory category and quantity may differ depending on sales region.
- The stand is not included by default. Purchase and install it separately.

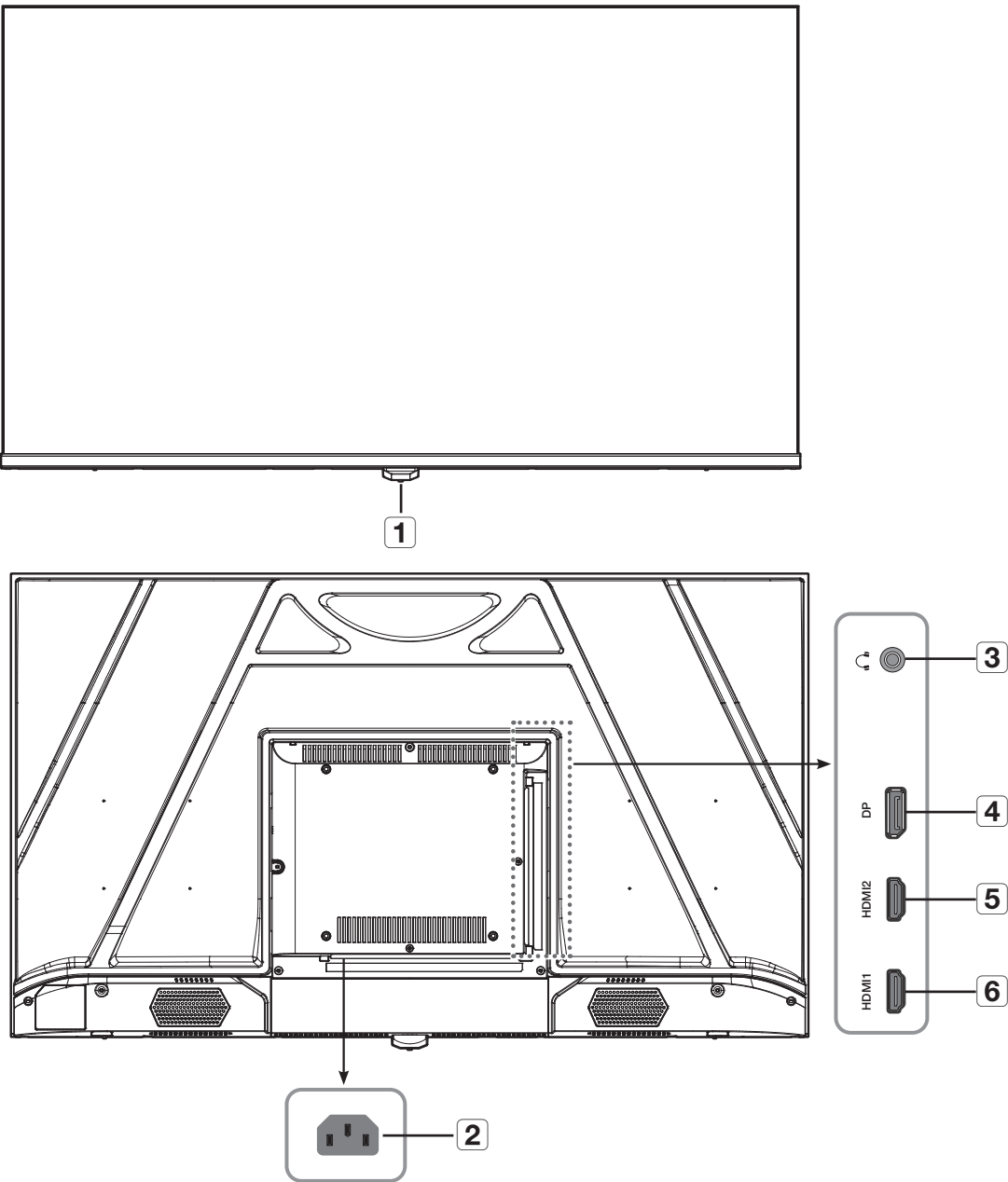
|                                                                                                            |                                                                                   |                                                                                                      |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                           |  |                   |
| Security LED Monitor                                                                                       | Power Cord                                                                        | Quick Start Guide                                                                                    |
|                           |  |                   |
| Remote Control ,<br>Remote Control Battery (AAA)                                                           | HDMI Cable                                                                        | VESA(100x100) Wall Mount<br>※ Used to convert VESA 200x200 on the<br>back of the monitor to 100x100. |
|                         |                                                                                   |                                                                                                      |
| VESA(200x200) dedicated screw (M6x5) x 4<br>※ Can also be used to connect the<br>VESA(100x100) wall mount. |                                                                                   |                                                                                                      |

## OPTIONAL ACCESSORIES FOR INSTALLATION

You can purchase the following optional accessories for installation, and can use them after connecting the VESA(100x100) wall mount.

| Item Name           | Appearance                                                                          | Description                | Model Name |
|---------------------|-------------------------------------------------------------------------------------|----------------------------|------------|
| VESA(100x100) stand |  | Monitor installation stand | SBM-4343   |

## NAMES AND FUNCTIONS OF EACH PART



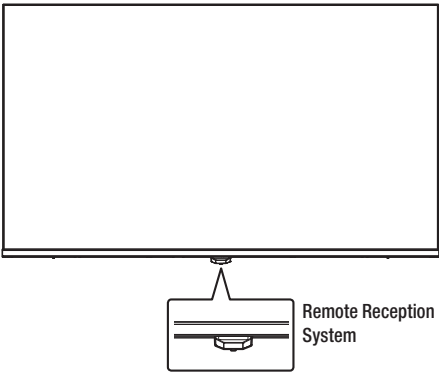
|   | Name         | Description of functions                               |
|---|--------------|--------------------------------------------------------|
| 1 | Power button | Turns the power to the product on/off.                 |
| 2 | Power        | Terminal to connect power.                             |
| 3 | AUDIO OUT    | Used to send sound to headphones or external speakers. |
| 4 | DP           | DP input terminal                                      |
| 5 | HDMI2        | HDMI input terminal                                    |
| 6 | HDMI1        |                                                        |

Remote Reception System

Press the button with the remote control pointed toward the remote control receiver to operate it.

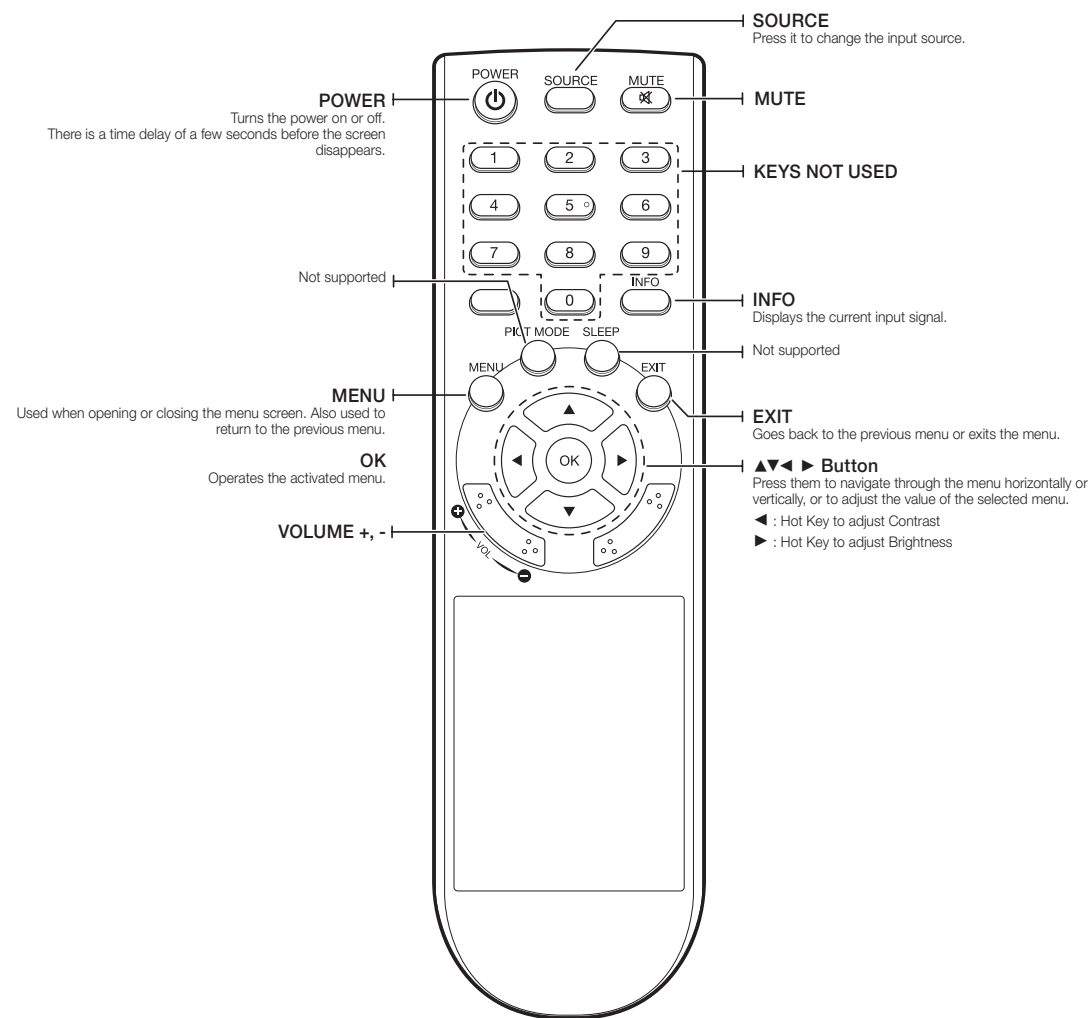
- If another display is used with this product in the same space where the remote control is being used, it may cause a malfunction due to interference of the remote control frequency.

Use the remote control within a range of 7 - 10m and 30° left/right from the product receiver.



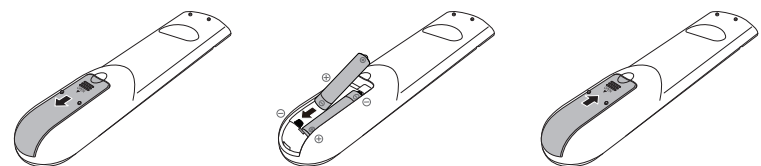
# REMOTE CONTROL

If another display is used with this product in the same space where the remote control is being used, it may cause a malfunction due to interference of the remote control frequency.



## Inserting batteries

Slide the battery cover off the remote controller in the direction of the arrow.  
Insert 2 alkaline batteries (1.5V, AAA) with the +/- poles in the correct direction.



- Remove used batteries and keep them out of the reach of children.
- Do not combine new and used batteries. When replacing the batteries, please replace both of them at once.
- Remove the batteries if you do not intend to use the remote control for an extended period of time.

# installation

Please take note of the followings before using this product.

- Do not use the product outdoor.
- Do not spill water or liquid in the connection part of the product.
- Do not impose the system to excessive shock or force.
- Do not pull out the power plug forcefully.
- Do not disassemble the product on your own.
- Do not exceed the rated input/output range.
- Use a certified power cord only.
- For the product with an input ground, use a grounded power plug.

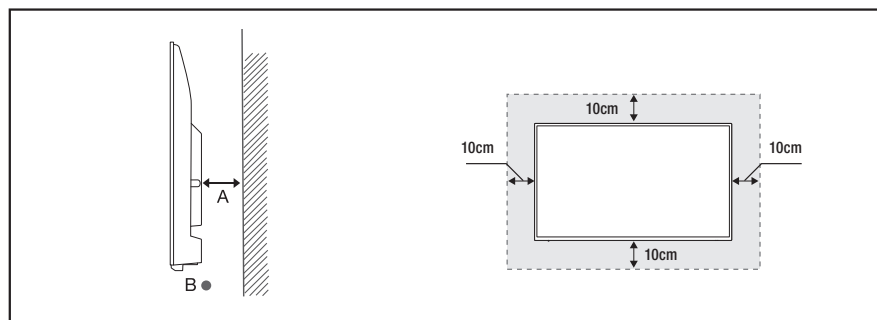
## BEFORE INSTALLING THE PRODUCT

### Ventilation requirement

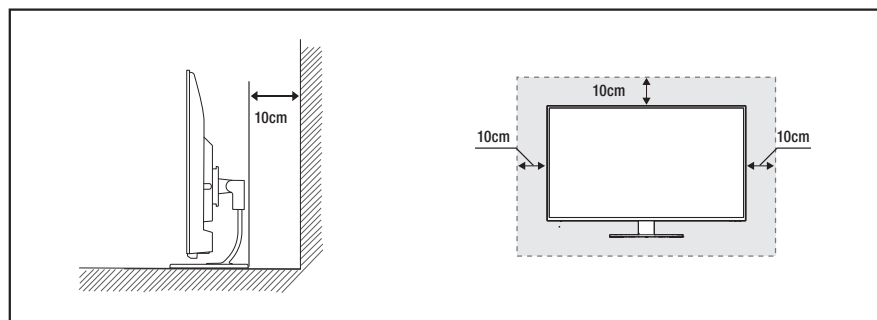
Installing the product in an environment where the air does not circulate well could cause product damage due to increased temperature. Make sure to secure enough space around the product for proper air ventilation.

### Vertical wall mount condition

- A.** Minimum 40 mm
- B.** Ambient temperature Measuring point <35°C



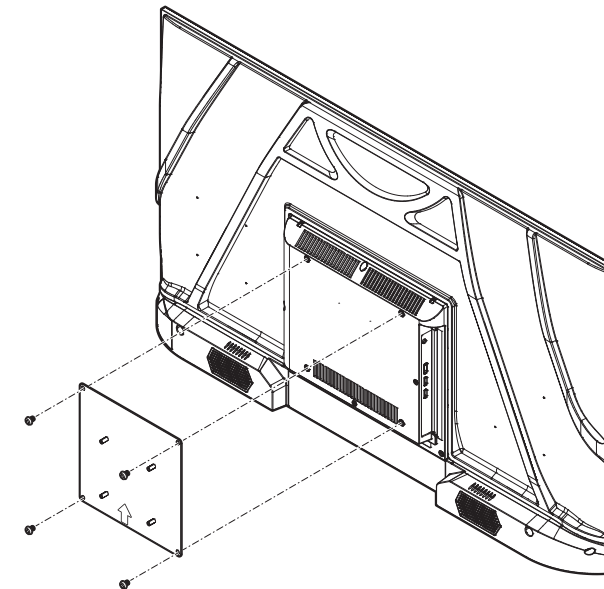
### Installation conditions for standing monitors



## INSTALLING THE VESA(100X100) WALL MOUNT

Before assembling the product, make sure that its screen is facing down when placing it on a flat and safe surface. Place the product on a soft cloth or product wrapping paper to protect it before installation.

- The stand is sold separately.
1. Secure the VESA(100x100) wall mount to the back of the monitor using the included screws(M6x5), oriented correctly.



- ! ■ Using VESA 200x200 needs to use the included M6x5 screws after removing the VESA(100x100) wall mount.

# INSTALLING WALL MOUNT PARTS

## Installing Wall Mount Kits

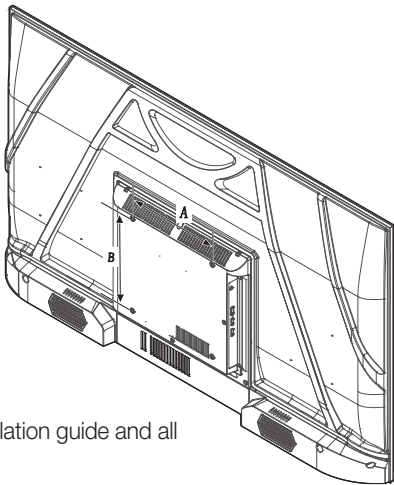
The wall mount kit (sold separately) allows you to hang the product on a wall.

For more information on wall mounting, refer to the owner's manual supplied with the wall mount parts. When installing the wall mount, seek the help of a technician.

Hanwha Vision is not responsible for any damage to the product or injury to the user or others caused by any accident due to a user's attempt to install the product.

## Wall Mount Kit Specifications (VESA)

- !

  - Install the wall mount kit on a solid wall perpendicular to the floor.
  - Please refer to the nearest store when installing on other materials.
  - Installing on an inclined wall may cause the product to fall, which can result in serious injury.
  - When using a VESA mount, select a product that can hold 4 times the weight of the monitor.
- 
- Do not mount the product at more than 5degree tilt.
  - When you purchase our wall mount kit, you will find a detailed installation guide and all parts required for assembly.
  - If you use screws other than the included screws(M6x5), the product may not be installed properly.
  - For wall mount parts that do not conform to the VESA standard screw specifications, the screw length may vary depending on the wall mount specifications.
  - Do not over-tighten the screws. The product may be damaged, or may fall, resulting in injury. Hanwha Vision is not responsible for any damage to the product or injury to the user or others caused by any accident due to a user's attempt to install the product.
  - Hanwha Vision is not responsible for damage to the product or injury to the user caused by using non-compliant or non-VESA wall mount parts, or by the customer not following the product installation instructions.
  - Notice: "For use only with UL Listed Wall Mount rated minimum 4.84 kg" or equivalent.
  - When hanging on a wall, two people should always lift the product.
  - The standard dimensions of the wall mount kit are shown in the table below. [Unit: mm]

| VESA dimensions (A * B) | Standard screws      | Quantity |
|-------------------------|----------------------|----------|
| 200 x 200               | Included M6x5 screws | 4        |

- !

  - Do not install the wall mount kit with the product turned on. This may lead to injury due to electric shock.

# connecting with other device

## THINGS TO CHECK BEFORE CONNECTION

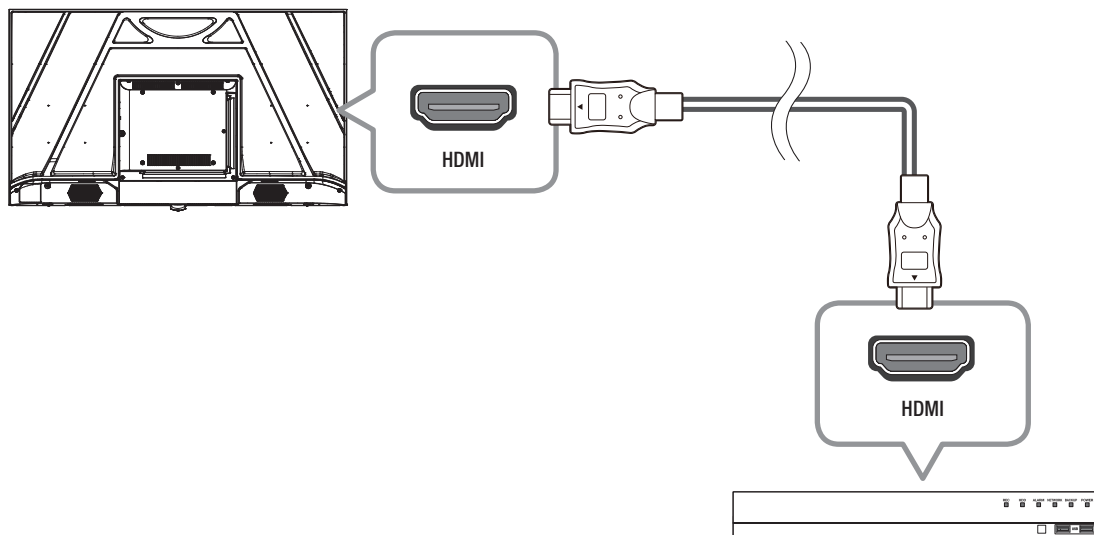
### Check before connecting

- ! 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.

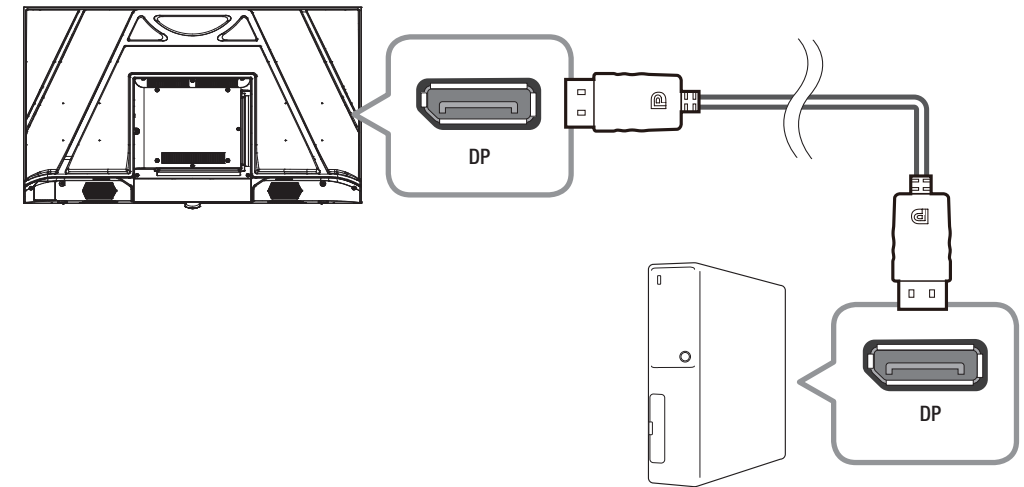
## CONNECTING WITH EXTERNAL DEVICES

- Connect the power cable after all cables have been connected. Disconnect the power cable before connecting external devices.
  - You can connect the product to external devices in various ways. Select the correct connection method for your external devices.
- ! After connecting the external device, select the connected external device by pressing the **[SOURCE]** button on the remote control.

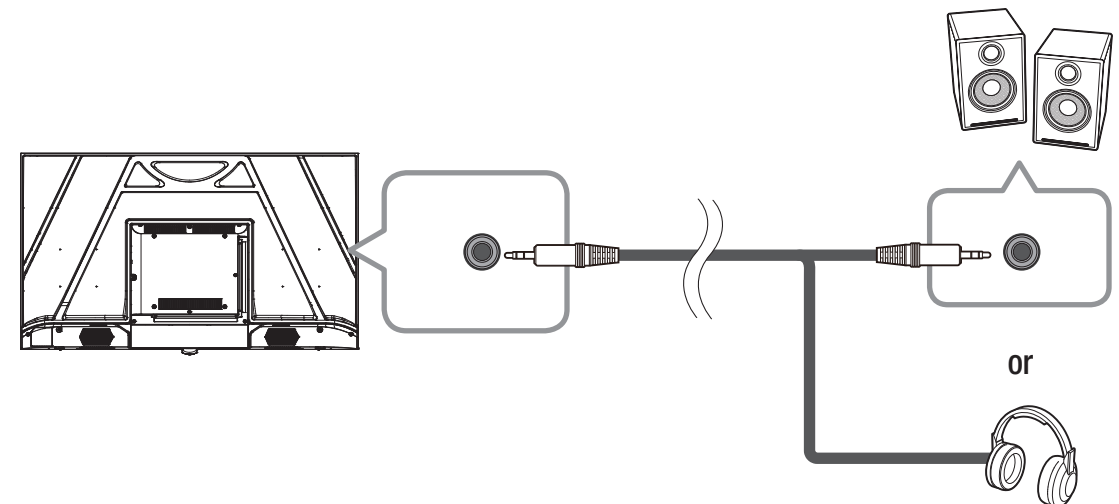
### HDMI cable connection method



### DP cable connection method



### Audio cable connection method



# menu settings

The screen adjustment menu can be set.

## SCREEN (OSD) MENU SETTINGS

### Selecting external input menu

You can select the input mode by pressing the [SOURCE] button on the remote controller or through menu settings.



- HDMI1/HDMI2 : Select this when connected to a HDMI device.
- DP : Select this when connected to a DP device.

! If the selected input signal and external input are different, the screen may appear abnormal.

### Selecting OSD menu

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

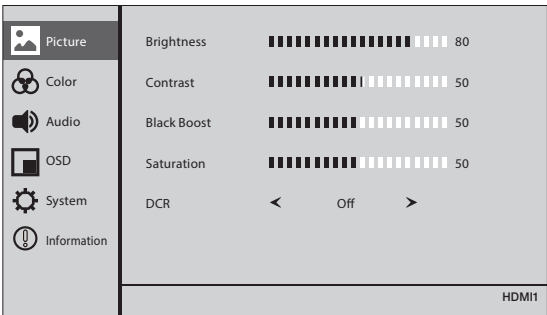
1. Press the [MENU] button to display the main menu.
2. Press the ▲/▼ buttons to select the main menu, and then press the [OK] button.
3. Press the ▲/▼ buttons to select the sub-menu, and then press the [OK] button.
4. Press the ◀/▶ buttons to adjust the adjustment value.
5. Press the [MENU] button to exit.

- ✎ To return to the previous screen, press the [MENU] button.
- If you do not press any buttons for a certain period of time, the OSD menu screen will disappear.
  - You can set the time up to 100 seconds in <OSD settings> → <OSD time>.

## VIDEO SETTINGS

You can adjust the screen's settings, such as the brightness and contrast.

1. Press the [MENU] button to enter the main menu.
2. Press the ▲/▼ button to select <Picture>, and then press the [OK] button.

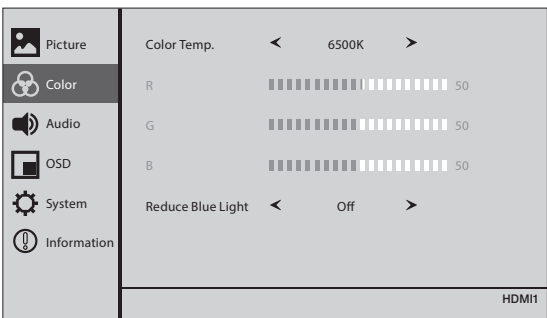


- Brightness : Adjusts the brightness of the screen.
- Contrast : Adjusts the difference in brightness between the object and the environment.
- Black Boost: Adjusts the darkness of the screen.
- Saturation: Adjusts the saturation of the screen.
- DCR : If you set the DCR (dynamic contrast) to <On>, the dynamic contrast ratio will be automatically adjusted. (This menu is dedicated to a single screen and cannot operate in PIP/PBP mode.)

## COLOR SETTINGS

You can set the screen's colors, such as by adjusting the color temperatures (R/G/B).

1. Press the [MENU] button to enter the main menu.
2. Press the ▲/▼ button to select <Color>, and then press the [OK] button.



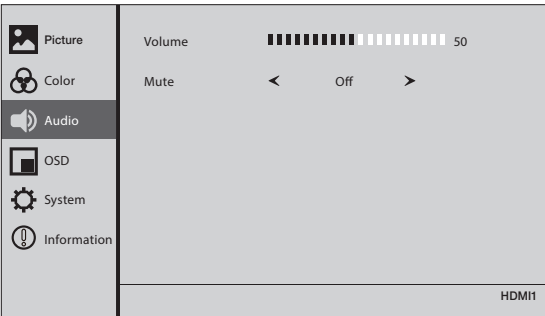
- Color Temp. : The color temperature can be adjusted and used depending on the monitor color.
  - You can select from 5500K, 6500K, 9300K, User.
  - User : Red/Green/Blue values can be adjusted manually.
- Reduce Blue Light: You can select blue light mode. The blue light decreases depending on the selected mode.
  - You can select Level 1, Level 2, Level 3, or Off.

# menu settings

## VOLUME SETTINGS

You can adjust the volume settings.

1. Press the [MENU] button to enter the main menu.
2. Press the ▲/▼ button to select <Audio>, and then press the [OK] button.

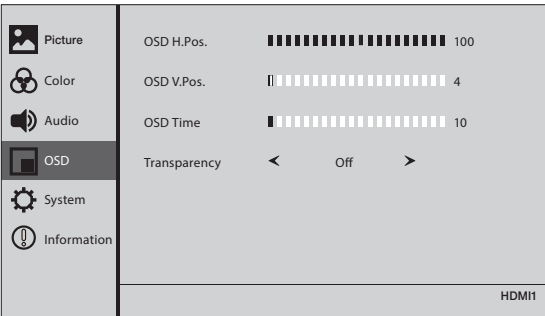


- Volume: You can adjust the volume.
- Mute: You can set whether to use the mute function.

## OSD SETTINGS

Sets up OSD values.

1. Press the [MENU] button to enter the main menu.
2. Press the ▲/▼ button to select <OSD>, and then press the [OK] button.

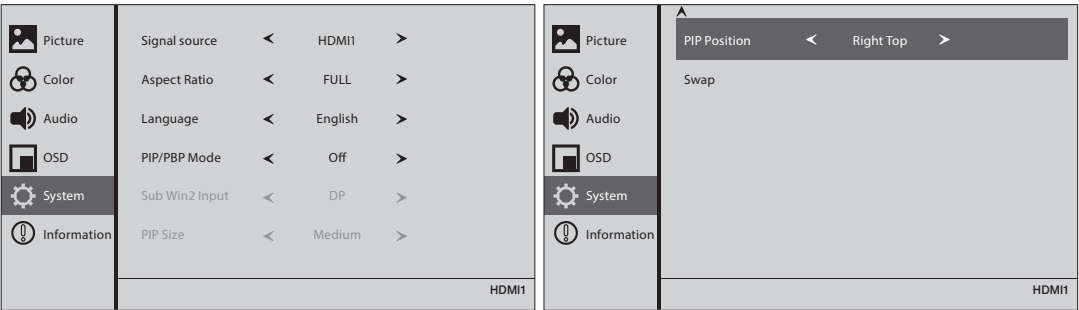


- OSD H.Pos. : Moves the screen of the menu to the left or right.
- OSD V.Pos. : Moves the screen position of the menu up or down.
- OSD Time : The menu screen disappears if the screen does not change for a certain period of time.
- Transparency : Sets the transparency of the menu screen.

## SYSTEM SETTINGS

You can set the various additional functions.

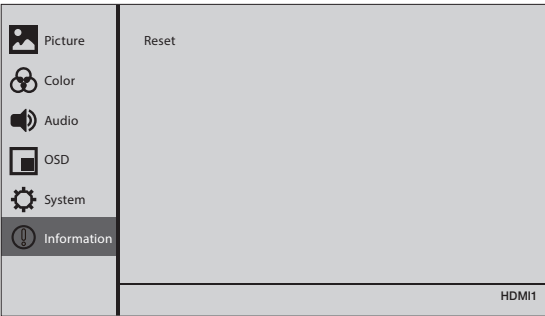
1. Press the [MENU] button to enter the main menu.
2. Press the ▲/▼ button to select <System>, and then press the [OK] button.



- Signal Source : You can select an input mode.(HDMI1/DP/HDMI2)
- Aspect Ratio : You can select a screen size you want. (This menu is dedicated to a single screen and cannot operate in PIP/PBP mode.)
  - FULL : Screen ratio is 16:9.
  - AUTO : The optimal aspect ratio changes to 4:3 or 16:9 depending on the input signal.
  - 1:1 : Screen ratio is 4:3.
- Language : Select the screen language.
- PIP/PBP Mode: You can select Picture in Picture (PIP) or Picture by Picture (PBP) mode.
- Sub Win2 Input: The selected sub-input will be used as an input signal of PIP/PBP mode. (Select the PIP or PBP mode to enable the menu.)
- PIP Size: You can adjust the size of the sub-screen in PIP mode.
- PIP Position: You can adjust the position of the sub-screen in PIP mode.
- Swap: You can switch between the main screen and sub-screen in PIP or PBP mode.

## INFORMATION

Resets the monitor settings to default.



## TROUBLESHOOTING

| Problems and Symptoms                              | Troubleshooting                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The screen appears and disappears repeatedly.      | <ul style="list-style-type: none"> <li>Check the cable connection between the product and the external device, and check the locking status of the connection device.</li> </ul>                                                                                                                                                                                             |
| The screen will not switch on.                     | <ul style="list-style-type: none"> <li>Confirm that the power cable is properly connected.</li> </ul>                                                                                                                                                                                                                                                                        |
| A "NO SIGNAL" message appears on the screen.       | <ul style="list-style-type: none"> <li>Confirm that the cable is properly connected to the product.</li> <li>Confirm that the power to the product is turned on.</li> </ul>                                                                                                                                                                                                  |
| The screen seems to be flowing down.               | <ul style="list-style-type: none"> <li>Check the cable connected to the product.</li> </ul>                                                                                                                                                                                                                                                                                  |
| The screen is too bright. The screen is too dark.  | <ul style="list-style-type: none"> <li>Adjust the brightness and contrast.</li> </ul>                                                                                                                                                                                                                                                                                        |
| The product spontaneously turns itself off.        | <ul style="list-style-type: none"> <li>Confirm that the power cable is firmly connected to the product and to the power outlet.</li> </ul>                                                                                                                                                                                                                                   |
| The image on the screen appears strange.           | <ul style="list-style-type: none"> <li>Video compression in scenes with fast transitions, such as sports or action movies, can cause screen distortion.</li> <li>Low signal level or poor quality may cause screen distortion. This is not a product issue.</li> <li>Cellular phones within a 1 meter radius may cause interference with analog/digital products.</li> </ul> |
| The brightness and color are strange.              | <ul style="list-style-type: none"> <li>Adjust the screen options (Screen mode / Color depth / Brightness / Sharpness) using the screen menu.</li> <li>Reset the screen with the default screen settings.</li> </ul>                                                                                                                                                          |
| I can see a dotted line on the edge of the screen. | <ul style="list-style-type: none"> <li>If the screen is the original size, try changing it to 16:9.</li> </ul>                                                                                                                                                                                                                                                               |
| I can see lines (red, green, blue) on the screen.  | <ul style="list-style-type: none"> <li>This occurs due to a fault in the DATA SOURCE DRIVER IC of the monitor. Contact Hanhwa Vision Service Center to solve the problem.</li> </ul>                                                                                                                                                                                         |
| The screen is unstable and stops.                  | <ul style="list-style-type: none"> <li>Screen pauses may occur when the resolution is different from the recommended resolution, or when the signal is unstable. To solve this problem, change the resolution of the external device to the recommended resolution.</li> </ul>                                                                                               |
| The image is not displayed on the full screen.     | <ul style="list-style-type: none"> <li>Try adjusting the screen size option of the product or external device.</li> </ul>                                                                                                                                                                                                                                                    |
| I cannot hear any sound.                           | <ul style="list-style-type: none"> <li>Check the connection of the audio cable or adjust the volume.</li> <li>Check the volume.</li> </ul>                                                                                                                                                                                                                                   |
| The sound is too quiet.                            | <ul style="list-style-type: none"> <li>Try adjusting the volume.</li> </ul>                                                                                                                                                                                                                                                                                                  |

| Problems and Symptoms                                                  | Troubleshooting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The image appears but no sound plays.                                  | <ul style="list-style-type: none"> <li>When using external devices <ul style="list-style-type: none"> <li>Make sure that the audio cable is properly connected to the audio input terminal of the product.</li> <li>Check the audio output options of the external device. (For example, if HDMI is connected to the monitor, you may need to change the audio options of the cable box to HDMI.)</li> </ul> </li> <li>Re-connect the device's power cable and reboot the connected device.</li> </ul> |
| I can hear a strange noise from the speaker.                           | <ul style="list-style-type: none"> <li>Check the cable connections. Make sure that the video cable is not connected to the audio input.</li> <li>If the cable is connected, check the signal strength.</li> <li>Sound may be distorted due to a low signal level.</li> </ul>                                                                                                                                                                                                                           |
| Even when I change the sound mode, the monitor sound remains the same. | <ul style="list-style-type: none"> <li>The sound settings of the main speakers are independent of the product's internal speakers. In other words, the sound settings of the external device do not affect the internal speaker sound.</li> </ul>                                                                                                                                                                                                                                                      |
| The remote control does not work.                                      | <ul style="list-style-type: none"> <li>Confirm that the +/- alignment of the batteries is correct.</li> <li>Check whether the batteries are dead.</li> <li>Make sure it is blackout.</li> <li>Make sure the power cable is connected.</li> <li>Make sure that the special fluorescent and neon sign light is on nearby.</li> </ul>                                                                                                                                                                     |
| The product smells of plastic.                                         | <ul style="list-style-type: none"> <li>This is a normal smell, and will disappear over time.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                |
| I cannot hear any sound in HDMI mode.                                  | <ul style="list-style-type: none"> <li>If you connect an external device that supports some lower versions of HDMI to a product that supports the latest HDMI standard, the colors displayed on the screen may not be normal, or the audio or video may not play. If this happens, connect both the HDMI cable and a separate audio cable.</li> </ul>                                                                                                                                                  |



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.

