OWNER'S MANUAL

NETWORK MONITOR

Please read the safety information carefully before using the product.

Network Monitor Model
N2210WZ

www.lg.com

TABLE OF CONTENTS

ASSEMBLING AND PREPARING

Unpacking

Please check whether all the components are included in the box before using the product. If there are missing components, contact the retail store where you purchased the product. Note that the product and components may look different from those shown here.
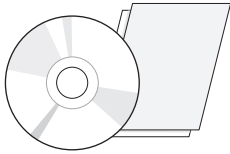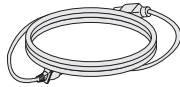
User Manual/Card　　　　　**Power Cord**　　　　　**Adaptor**
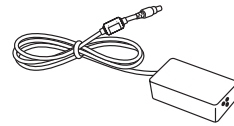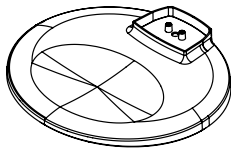
Stand Base　　　　　**15-pin D-SUB Signal Cable**

⚠ **CAUTION**

- Only use an approved LG power adapter.
- Damage caused by other power adapters is not covered by warranty.

🚫 **NOTE**

- Note that the components may look different from those shown here.
- Without prior notice, all information and specifications in this manual are subject to change to improve the performance of the product.
- To purchase optional accessories, visit an electronics store or online shopping site or contact the retail store where you purchased the product.

Parts and buttons

Input Connectors
(See p.14)

Power Indicator
• LED On : Power is on
• LED Off: Power is off

⏻ (Power Button)

Front Side Buttons

DC-IN/ 电源输入	LAN		D-SUB IN	D-SUB OUT	DVI-I OUT

Input Connectors (See p.11 to 14)

| Button	Description	
MENU	Activates the main menu.	
	OSD Lock/Unlock Functions	Locks/unlocks the OSD screen. • To lock the OSD screen, press and hold the MENU button for several seconds. The "OSD LOCKED" message will be displayed and the screen will be locked. • To unlock the OSD screen, press and hold the MENU button again for several seconds. The "OSD UNLOCKED" message will be displayed and the screen will be unlocked.
MODE	Moves to the F-ENGINE and PHOTO EFFECT options.	
AUTO	To adjust the monitor settings, press the AUTO button on the MONITOR SETUP OSD menu (only supported for analog signal). For optimal screen display, use the following resolution.	
	Optimal Resolution	1680 x 1050
INPUT	Allows selection of the input signal. • If you connect the monitor to a computer using a D-SUB cable, select either the PCoIP or D-SUB input signal. • If only one computer is connected to the monitor, the input signal is detected automatically. The initial input signal is PCoIP.	
EXIT	Exits the OSD menu.	
⏻ (Power Button)	• D-SUB Input: Power On/Off • PCoIP Input Monitor Off: Press the power button twice, or press the power button and wait for 10 seconds. PCoIP Off: Press the power button, then press the EXIT button located next to the power button. PCoIP On: Press the power button. Remote PC Power Control: Press the power button for at least five seconds to turn the PC on/off. * To use the Remote PC Power Control function, separate settings are required for the PC.	
	Power Indicator	When the monitor is in operating mode, the power indicator will turn white (on mode). When the monitor is in power saving mode, the power indicator will blink white.

Setting Up the Monitor set

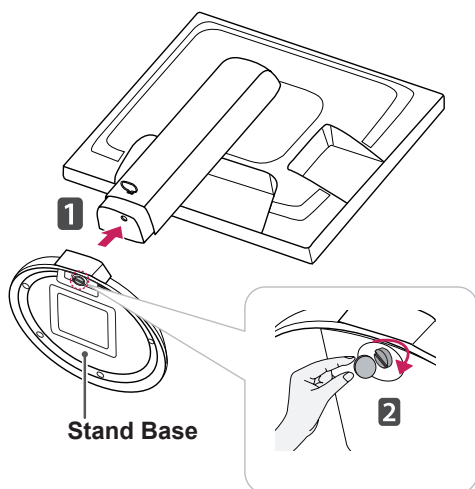## Attaching the Stand Base

1 Place the monitor's screen face down.

> ⚠ **CAUTION**
>
> • To protect the screen from scratches, cover the surface with a soft cloth.

2 Check the **position (at the front and rear)** of the stand body, then mount the **stand base** on the **stand body** as shown in the figure.

Stand Body
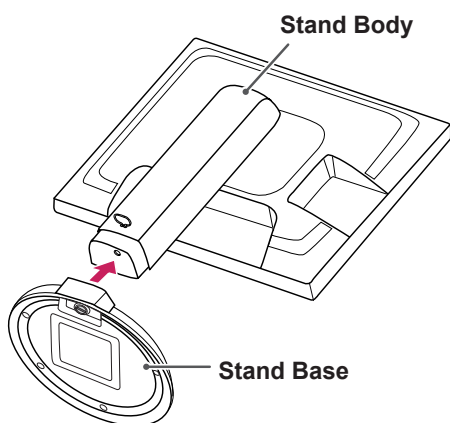
Stand Base

3 Using a coin, turn the screw clockwise to secure the **stand base.**

Stand Base

Detaching the stand base

1 Place the monitor's screen face down.
To protect the screen from scratches, cover the surface with a soft cloth.

2 Using a coin, turn the screw in the stand base counterclockwise. Detach the **stand base** from the **stand body**.

Stand Body

Stand Base
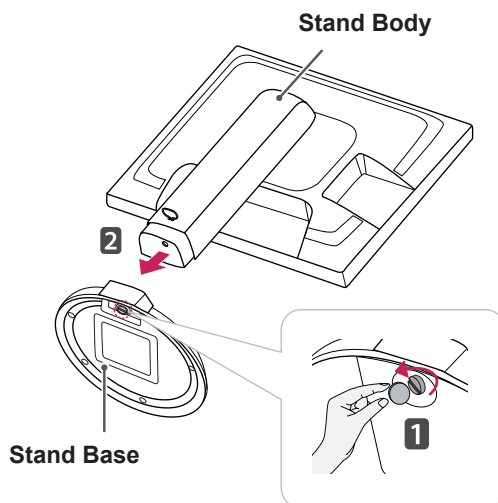
> ⚠ **CAUTION**
>
> • The components appearing in the illustrations may look different from the actual product.
> • Do not carry the monitor upside-down as this may cause it to fall off its stand, resulting in damage or injury.
> • To avoid damaging the screen when lifting or moving the monitor, only hold the stand or the plastic cover. This avoids putting unnecessary pressure on the screen.
> • Only remove the tape and the locking pin when the monitor is mounted on the stand base and is in an upright position. Otherwise, the stand body may protrude, which may lead to injury.

Adjusting the stand height

1 Place the monitor mounted on the stand base in an upright position.

2 Remove the **tape** attached at the bottom rear of the **stand body,** then pull out the **locking pin**.

Stand Body

Tape
Locking Pin
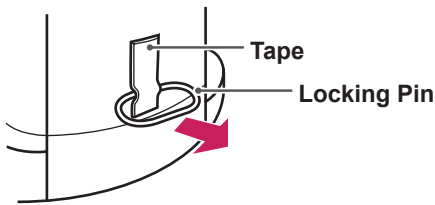
3 The height can be adjusted up to **110 mm**.

110.0 mm
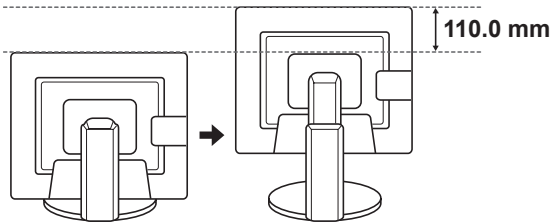
⚠ **CAUTION**

• Once the pin is removed, it is not necessary to re-insert it to adjust the height.

⚠ **WARNING**
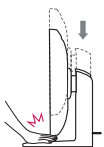
• Do not put your finger between the screen and the base (chassis) when adjusting the screen's height.

Adjusting the angle

1 Place the monitor mounted on the stand base in an upright position.

2 Adjust the angle of the screen. The angle of the screen can be adjusted up to 15° forwards and 5° backwards for a comfortable viewing experience.

− 5°   15°

Front Side   **Rear Side**
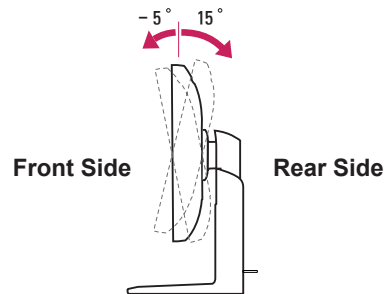
⚠ **WARNING**

• To avoid injury to the fingers when adjusting the screen, do not hold the lower part of the monitor's frame as illustrated below.
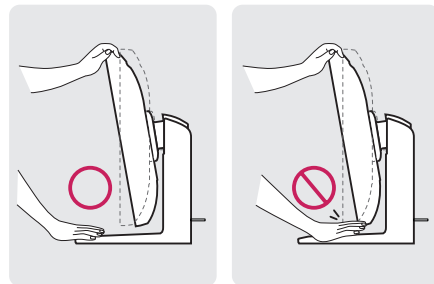
• Be careful not to touch or press the screen area when adjusting the angle of the monitor.
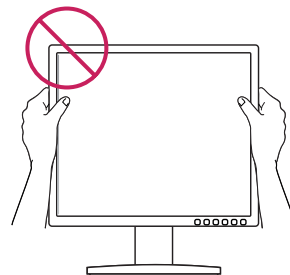
Mounting on a table

1 Lift the monitor and place it on the table in an upright position.

  Install at least **10 cm** away from the wall to ensure sufficient ventilation.
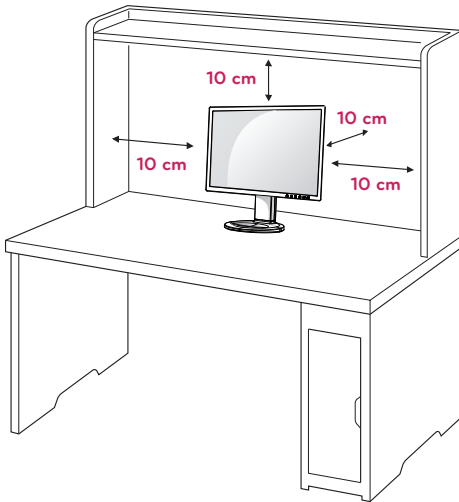
2 Connect the adaptor to the monitor, then plug the power cord into the wall outlet.
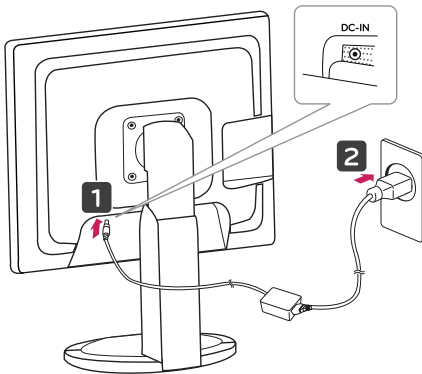
3 Press the ⏻ (Power) button on the front of the monitor to turn on the monitor.

> ⚠ **CAUTION**
>
> • Unplug the power cord prior to moving or installing the monitor. There is risk of electric shock.

Using the Kensington locking device

The connector for the Kensington lock is located on the rear of the monitor.
For more information on installation and usage, refer to the Kensington lock user manual or visit the website at http://www.kensington.com.

Connect the monitor to the table with the Kensington lock cable.
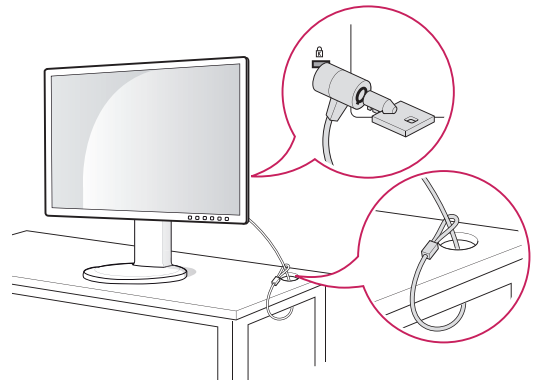
> ⓘ **NOTE**
>
> • Using the Kensington lock is optional. The accessories can be purchased at your local electronics store.

Detaching the stand body

1 Place the monitor's screen face down. To protect the screen from scratches, cover the surface with a soft cloth.

2 Using a screwdriver, remove the four screws and detach the stand from the monitor.

Installing the wall mount plate

This monitor has a VESA compatible mount on the back. Most mounts will require an LG mounting plate.

1 Place the monitor's screen face down. To protect the screen from scratches, cover the surface with a soft cloth.

2 Place the wall mount plate on the monitor and align it with the screw holes on the monitor.

3 Using a screwdriver, tighten the four screws to fix the plate onto the monitor.

Wall Mount Plate

Swivel stand

• Image shown may differ from your Monitor set.

1 Swivel 356 degrees and adjust the angle of the Monitor set to suit your view.
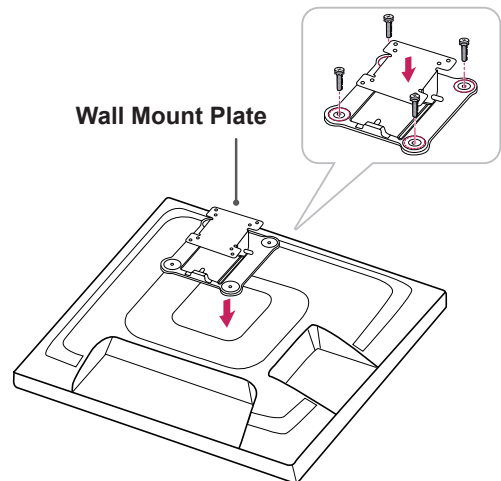
> **! NOTE**
>
> • The wall mount plate is sold separately.
> • For more information on the installation, refer to the wall mount plate's installation guide.

10/100/1000Mbps RJ45 (PCoIP)

Mounting on a wall

Install the monitor at least 10 cm away from the wall and leave about 10 cm of space at each side of the monitor to ensure sufficient ventilation. Detailed installation instructions can be obtained from your local retail store. Please refer to the manual to install and set up a tilting wall mounting bracket.

Model	N2210WZ
VESA (A x B)	75 x 75
Stand Screw	M4
Required Screw	4
Wall Mount Plate (Optional)	RW120
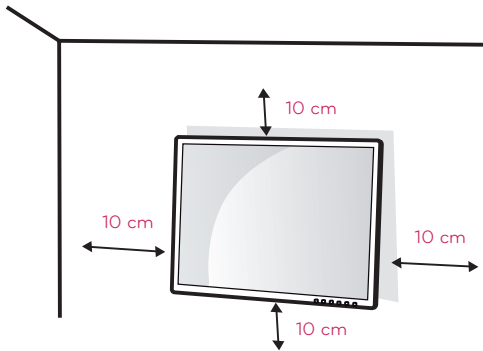
If you intend to mount the Monitor set to a wall, attach Wall mounting interface (optional parts) to the back of the set.
When you install the Monitor set using a wall mounting interface (optional parts), attach it carefully so it will not drop.

1 Please, Use the screw and wall mount interface in accordance with VESA Standards.

2 If you use screw longer than standard, the monitor might be damaged internally.

3 If you use improper screw, the product might be damaged and drop from mounted position. In this case, LG Electronics is not responsible for it.

4 VESA compatible.

5 Please use VESA standard as below.

- 784.8 mm (30.9 inch) and under
  * Wall Mount Pad Thickness : 2.6 mm
  * Screw : Φ 4.0 mm x Pitch 0.7 mm x
        Length 10 mm
- 787.4 mm (31.0 inch) and above
  * Please use VESA standard wall mount pad and screws.

⚠️ **CAUTION**

- Unplug the power cord before moving or installing the monitor to avoid electric shocks.
- Installing the monitor on the ceiling or on a slanted wall may result in the monitor falling off, which could lead to injury. Please use a LG wall mounting bracket when using a VESA mount. For more information, contact your local retail store or a qualified installer.
- Applying excessive force when fastening screws may cause damage to the monitor. Damage caused in this way will not be covered by the product warranty.
- Use the wall mounting bracket and screws that conform to the VESA standard. Damage caused by the use or misuse of inappropriate components will not be covered by the product warranty.

🔘 **NOTE**

- Use the screws specified in the VESA standard.
- The wall mount kit includes the installation guide and necessary parts.
- The wall mounting bracket is optional. The accessories can be purchased at your local retail store.
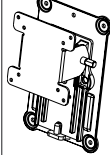- The length of the screw may differ for each wall mounting bracket. Ensure the correct length of the screw is used.
- For more information, please refer to the user manual for the wall mounting bracket.

USING THE MONITOR SET

Connecting Input Signal Cable

• This monitor supports the *Plug and Play feature.
*Plug and Play: A feature that allows you to add a device to your computer, without having to reconfigure anything or install any manual drivers.

D-SUB IN connection - PC

D-SUB IN transfers analog video signals from the PC to the monitor.
Connect the monitor to the PC using the provided 15-pin D-SUB signal cable as illustrated below.

D-SUB IN   D-SUB OUT   DVI-I OUT

RGB OUT
PC
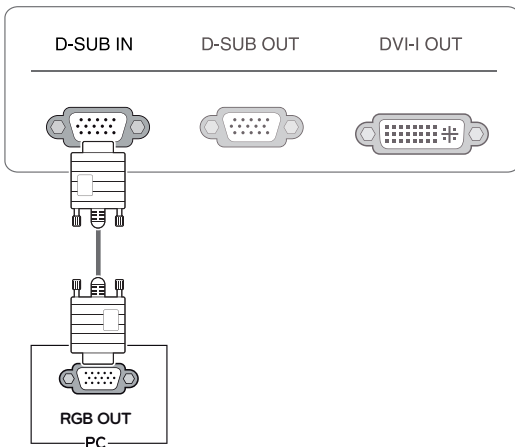
> **NOTE**
>
> • When using this device simply as a regular monitor through the RGB IN port, set "PCoIP" to OFF in MENU > OTHERS to reduce energy consumption.

D-SUB OUT connection - PCoIP

D-SUB OUT can only mirror the image displayed on the monitor. (it does not support an extended desktop).
Connect the monitor to the PC using the provided 15-pin D-SUB signal cable as illustrated below.

D-SUB IN   D-SUB OUT   DVI-I OUT

RGB IN
MONITOR
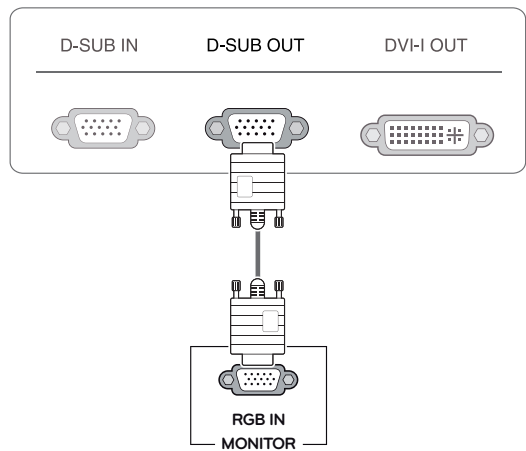
> **NOTE**
>
> • When using a Macintosh D-SUB input cable
>
> • Macintosh Adaptor: Use the standard Macintosh adaptor. Other commercial adaptors may not be compatible (due to the signaling difference).
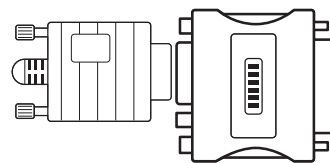
DVI connection - PCoIP

Transfers digital video signals to another monitor. Connect the monitor using the DVI cable as illustrated below.
This connection is used to support an extended monitor or replicate the image displayed on the monitor.

D-SUB IN	D-SUB OUT	DVI-I OUT

DVI-I(D) IN

MONITOR
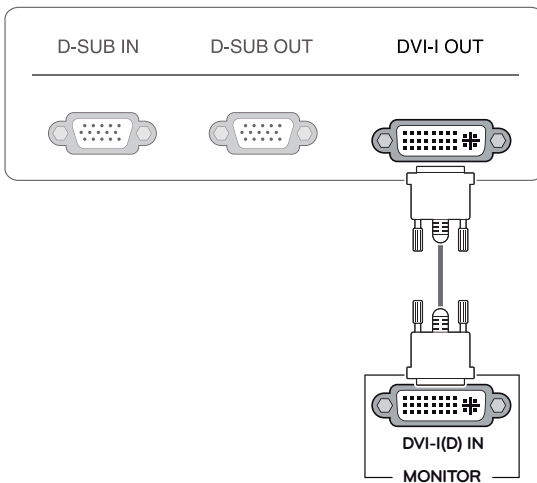
⚠️ **CAUTION**

• Connect the input signal cable and tighten in the direction of the arrow. To prevent disconnection secure the cable tightly.
• Do not press on the screen for a prolonged time. This may cause image distortion.
• Do not display a still image on the screen for a prolonged time. This may cause image retention. If possible, use the screen saver.
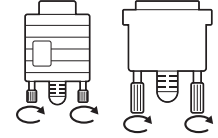
🔔 **NOTE**

• To connect the monitor to a computer, use the appropriate signal cable (LAN and D-SUB).
• A converter can be used to convert the DVI-I input signal to D-SUB input signal.
• When connecting the power cord to the outlet, use a grounded (3-hole) multi-socket or a grounded wall outlet.
• The monitor may flicker when turned on in an area of low temperature. This is normal.
• Sometimes red, green or blue spots may appear on the screen. This is normal.

Connecting LAN/Peripherals

LAN connection - PCoIP

The LAN connection transmits PCoIP signals to the monitor. Connect the router or switch to the monitor using a LAN cable as illustrated below.
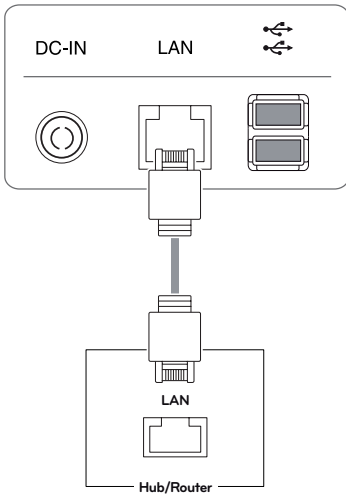
! NOTE

- The LAN cable is sold separately.
- The following LAN cable type can be used: Standard: IEEE 802.3 ETHERNET
- When connecting the Earphone Out or Line Out through the LAN, use the volume icon on the taskbar of your PC to adjust the volume.

! NOTE

- Connect the LAN cable and the peripheral devices prior to booting up the PC.

Peripheral device connection

Connect peripheral devices to the monitor using USB, headphone, speaker, and microphone ports.

Left

Bottom

DC-IN   LAN   D-SUB IN   D-SUB O
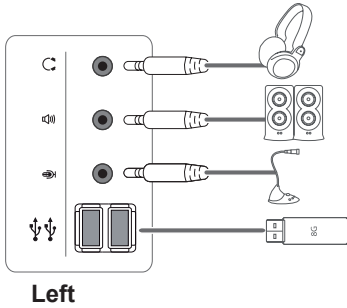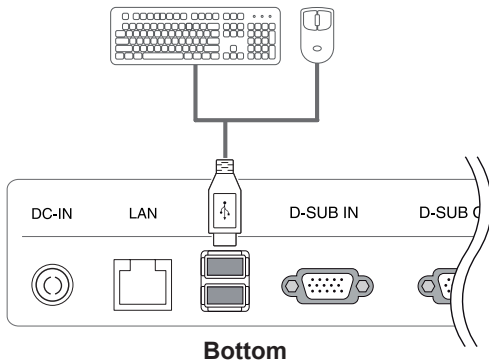
! NOTE

• Peripheral devices are sold separately.
• The USB ports on the left and bottom of the monitor can be used to connect the keyboard, mouse, and other USB devices.
• Cables with angled plugs may have clearance issues, use straight plugs when possible.

Angle Type   Straight Type

! NOTE

• Headphones, speakers or microphone may not work normally, depending on the server PC settings.
• Virtual solutions may affect the functions or speed of the specific USB storage device.

Self Image Adjustment

Press the power button on the front to turn on the monitor. When powered on, the **"Self Image Adjustment"** function will run automatically (only available for analog [D-SUB input] signals).
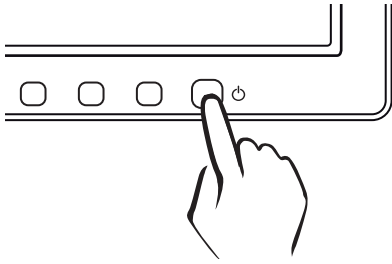
> **NOTE**
>
> • What is "Self Image Adjustment"? This function runs when the monitor is connected for the first time and performs automatic image adjustment for each signal (only available for analog [D-SUB input] signals) to provide an optimal screen display.

CUSTOMIZING SETTINGS

Accessing The Main Menus

1 Press any button on the front of the monitor to display the MONITOR SETUP OSD menu.

2 Press to select the desired menu item.

3 To change the settings of the selected item press the buttons on the front of the monitor.
To return to the upper menu or set other menu items, use the up arrow (⬆) button.

4 Select EXIT to leave the OSD menu.

Front Side Buttons

MENU (See p.17)
Sets the screen options.

AUTO / ⊣⊢ (See p.23)
Optimizes the resolution.
/ Disconnects from the server.

EXIT(See p.5)
Exits the OSD menu.

MONITOR SETUP

MENU   MODE   AUTO   INPUT   EXIT
                 ⊣⊢

MODE (See p.21)
Sets the screen mode.

INPUT (See p.5)
Sets the external input.
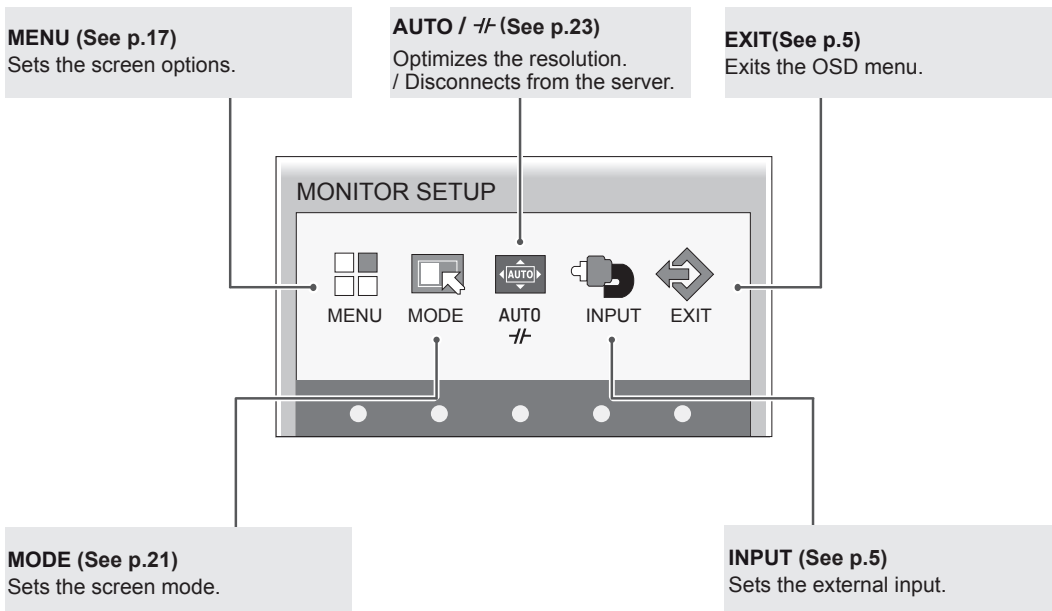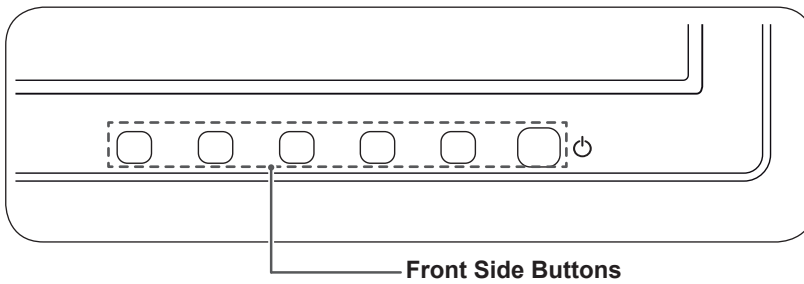
> **NOTE**
>
> Different menu items are enabled depending on the type of input signal.
> • **D-SUB Input:** MENU, MODE, AUTO, INPUT, EXIT
> • **PCoIP Input:** MENU, MODE, ⊣⊢, INPUT, EXIT
> • The language of the monitor's OSD menu and that of the OSD menu illustrated in the CD-ROM manual may be different.

MENU Settings

Picture

1 Press any button on the front of the monitor to display the **MONITOR SETUP** OSD menu.

2 Press the **MENU** button to display the options in the OSD menu.

3 Set the options by pressing the buttons on the front of the monitor.

4 Select **EXIT** to leave the OSD menu.
To return to the upper menu or set other menu items, use the up arrow (🔼) button.

```
MENU ▶ PICTURE

  ◐      ▥      ▣      ◁]      ⚙

  ☀ BRIGHTNESS  ◀▬▬▬▬▬▶   100
  ◑ CONTRAST    ◀▬▬▬▬  ▶    70
  ✗ SHARPNESS   ◀▬▬▬   ▶     5


         🔼   ◀   ▶   ▼  EXIT
```
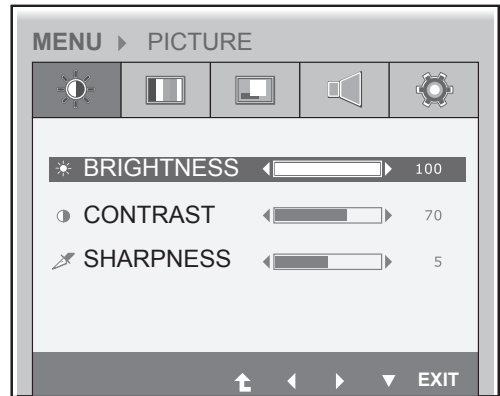
Each option is explained below.

Menu	Analog (D-SUB)	PCoIP	Description
BRIGHTNESS	●	●	Sets the brightness of the screen.
CONTRAST	●	●	Sets the contrast of the screen.
SHARPNESS	●	●	Sets the sharpness of the screen.

• **Analog: D-SUB (analog signal) input.   PCoIP: Internal signal through the LAN.**

> 🛑 **NOTE**
>
> • If the screen is not displayed properly after adjusting the settings, use the "FACTORY RESET" option to revert back to the factory default settings. If necessary, enable the "WHITE BALANCE" option again. This option is enabled only for analog (D-SUB) signals.

Color

1 Press any button on the front of the monitor to display the **MONITOR SETUP** OSD menu.

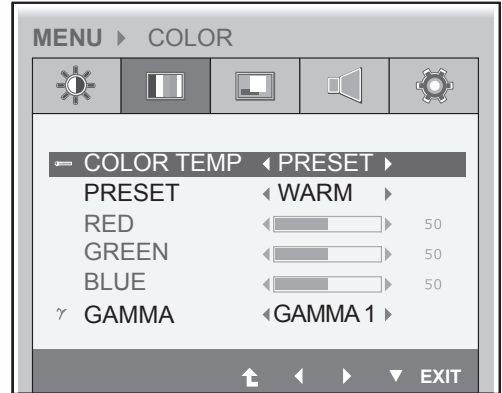2 Press the **MENU** button to display the options in the OSD menu.

3 Set the options by pressing the buttons on the front of the monitor.

4 Select **EXIT** to leave the OSD menu.
To return to the upper menu or set other menu items, use the up arrow (⬆) button.

```
MENU ▶ COLOR
 ☼   ▥   ▣   ◁   ⚙

▭ COLOR TEMP  ◀ PRESET ▶
  PRESET      ◀ WARM    ▶
  RED         ◀▭▭▭▭▭▭▶  50
  GREEN       ◀▭▭▭▭▭▭▶  50
  BLUE        ◀▭▭▭▭▭▭▶  50
γ GAMMA       ◀GAMMA 1 ▶

          ⬆  ◀   ▶   ▼ EXIT
```

Each option is explained below.

Menu	Analog (D-SUB)	PCoIP	Description	
COLOR TEMP	●	●	Allows PRESET or USER to be selected.	
PRESET	●	●	sRGB	Sets the screen color according to the sRGB color standard.
			WARM	Sets the screen color to a reddish tone.
			MEDIUM	Sets the screen color between the reddish and bluish tone.
			COOL	Sets the screen color to a bluish tone.
USER	●	x	You can customize the picture color using Red, Green, and Blue colors.	
GAMMA	●	●	Sets the clarity of the screen. The gamma value can be set to 0, 1 or 2, from darker to brighter screen colors respectively.	

• **Analog: D-SUB (analog signal) input.   PCoIP: Internal signal through the LAN.**

Display

1 Press any button on the front of the monitor to display the **MONITOR SETUP** OSD menu.

2 Press the **MENU** button to display the options in the OSD menu.

3 Set the options by pressing the buttons on the front of the monitor.

4 Select **EXIT** to leave the OSD menu.
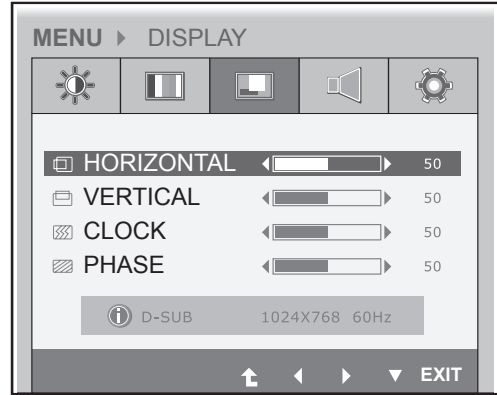 To return to the upper menu or set other menu items, use the up arrow (↑) button.

```
MENU ▶ DISPLAY

☼    ▯▯    ▭    ◁    ⚙

▤ HORIZONTAL   ◀▭──▶   50
▭ VERTICAL     ◀▭──▶   50
▨ CLOCK        ◀▭──▶   50
▨ PHASE        ◀▭──▶   50

ⓘ D-SUB    1024X768  60Hz

↑   ◀   ▶   ▼ EXIT
```

Each option is explained below.

Menu	Analog (D-SUB)	PCoIP	Description
HORIZONTAL	●	x	Moves the display area left or right.
VERTICAL	●	x	Moves the display area up or down.
CLOCK	●	x	If vertical lines are shown on the screen, adjust the frequency to minimize the lines and adjust the screen's horizontal width.
PHASE	●	x	Adjusts the focus of the screen's image. Use when frequencies are shown on the screen or when the text appears overlapped. For optimal results, use this option after adjusting the "**CLOCK**" option.

• **Analog: D-SUB (analog signal) input.   PCoIP: Internal signal through the LAN.**

Volume

1 Press any button on the front of the monitor to display the **MONITOR SETUP** OSD menu.

2 Press the **MENU** button to display the options in the OSD menu.

3 Set the options by pressing the buttons on the front of the monitor.

4 Select **EXIT** to leave the OSD menu.
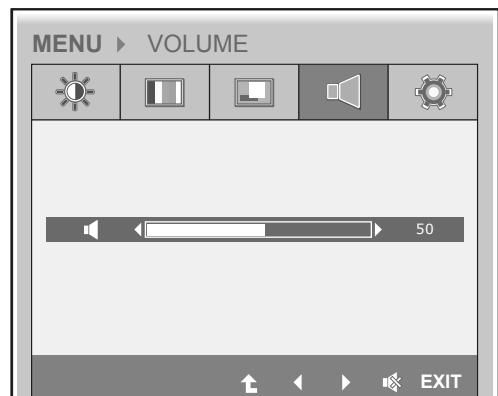 To return to the upper menu or set other menu items, use the up arrow (↑) button.

```
MENU ▶ VOLUME

☼    ▯▯    ▭    ◁    ⚙


◀▯   ◀▭────▶   50


↑   ◀   ▶   ▨ EXIT
```

English
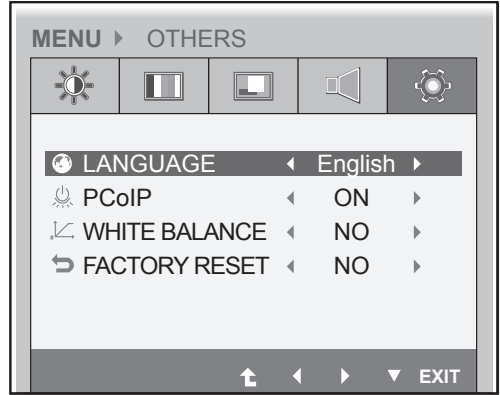
Others

1 Press any button on the front of the monitor to display the **MONITOR SETUP** OSD menu.

2 Press the **MENU** button to display the options in the OSD menu.

3 Set the options by pressing the buttons on the front of the monitor.

4 Select **EXIT** to leave the OSD menu.
To return to the upper menu or set other menu items, use the up arrow (↥) button.

```
MENU ▶ OTHERS
┌─────────────────────────────────────┐
│  ☀   ▯▯   ▭   ◁   ◎  │
├─────────────────────────────────────┤
│  ◉ LANGUAGE      ◀  English  ▶      │
│  ☼ PCoIP         ◀    ON     ▶      │
│  ∠ WHITE BALANCE ◀    NO     ▶      │
│  ↰ FACTORY RESET ◀    NO     ▶      │
│                                      │
│                ↥  ◀  ▶  ▼  EXIT     │
└─────────────────────────────────────┘
```

Each option is explained below.

Menu	Analog (D-SUB)	PCoIP	Description
LANGUAGE	●	●	Sets the menu screen to the desired language.
PCoIP	●	x	Allows the PCoIP to be turned ON or OFF. If the input is PCoIP, the "PCoIP" option is disabled.
			This option is enabled when analog signals are input via D-SUB.
			If PCoIP is ON — **If PCoIP is OFF**
			- Use the INPUT button to switch between PCoIP and D-SUB. - If the D-SUB cable is removed, the input will automatically be switched to PCoIP. — - If the D-SUB cable is removed, "No Signal" will be displayed. - If INPUT is set to D-SUB, when DC is switched from ON to OFF, PCoIP will not be enabled.
WHITE BALANCE	●	x	If the video card output is different from the specified level, the color may appear to have altered due to the video signal distortion. The white balance adjusts the output signal level to correspond to that of the standard signal, thus providing optimal display. Run this option when the screen displays an image with both white and black.
FACTORY RESET	●	●	Resets the screen to the factory default settings. Note that the language option will not be reset.

• **Analog: D-SUB (analog signal) input.   PCoIP: Internal signal through the LAN.**