



Planar Simplicity Series

USER'S GUIDE

www.planar.com

Safety Instructions

Warnings and Precautions

KNOW THESE SAFETY SYMBOLS



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

CAUTION: FCC/CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

CAUTION: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.

TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.


The Socket-outlet should be installed near the apparatus and be easily accessible.



Read and follow these instructions when connecting and using your Public Information Display:

- Unplug the display if you are not going to use it for an extensive period of time.
- Unplug the display if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use alcohol, solvents or ammonia-based liquids.
- Consult a service technician if the display does not operate normally when you have followed the instructions in this manual.
- The casing cover should be opened only by qualified service personnel.
- Keep the display out of direct sunlight and away from stoves or any other heat sources.
- Remove any object that could fall into the vents or prevent proper cooling of the display's electronics.
- Do not block the ventilation holes on the cabinet.
- Keep the display dry. To avoid electric shock, do not expose it to rain or excessive moisture.
- If turning off the display by detaching the power cable, wait for 6 seconds before re-attaching the power cable for normal operation.
- To avoid the risk of shock or permanent damage to the set do not expose the display to rain or excessive moisture.
- When positioning the display, make sure the power plug and outlet are easily accessible.
- **IMPORTANT:** Always activate a screen saver program during your application. If a still image in high contrast remains on the screen for an extended period of time, it may leave an 'after-image' or 'ghost image' on the front of the screen. This is a well-known phenomenon that is caused by the shortcomings inherent in LCD technology. In most cases the after-image will disappear gradually over a period of time after the power has been switched off. Be aware that the after-image symptom cannot be repaired and is not covered under warranty.

Important Safety Instructions

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. Do not use over 16 hours per day.
 7. Clean only with dry cloth.
 8. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
 9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 10. 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.
 11. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
 12. Only use attachments/accessories specified by the manufacturer.
 13. 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.
- 
14. Unplug this apparatus during lightning storms or when unused for long periods of time.
 15. 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.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

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

WARNING: The batteries (batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

WARNING: The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times.



WARNING: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

WARNING: This equipment is compliant with Class A of EN55032/ CISPR. In a residential environment this equipment may cause radio interference.

WARNING: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures..

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CAUTION: Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphone and headphone output voltage and the sound pressure level. Therefore, to protect your hearing, adjust the equalizer to an appropriate level.

NOTE: 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.

Instructions de sécurité

Avvertissements et mises en garde

CONNAÎTRE CES SYMBOLES DE SÉCURITÉ



ATTENTION : POUR RÉDUIRE LE RISQUE DE CHOC ELECTRIQUE, NE PAS ENLEVER LE COUVERCLE (OU LE CAPOT ARRIÈRE). AUCUNE PIECE UTILISABLE NE SE TROUVE A L'INTERIEUR. CONTACTER UN TECHNICIEN QUALIFIE POUR LES REPARATIONS.



Ce symbole indique la présence d'un courant haute tension à l'intérieur. Il est dangereux de toucher n'importe quel composant à l'intérieur de ce produit.



Ce symbole vous avertit que des documents importants concernant le fonctionnement et l'entretien ont été fournis avec ce produit.

ATTENTION : Les règlements FCC/CSA indiquent que tous changements ou modifications non autorisés peut annuler l'autorité de l'utilisateur à l'utiliser.

ATTENTION : Pour éviter les chocs électriques, insérez la lame la plus large de la fiche dans la borne correspondante de la prise et enfoncez-la jusqu'au fond.

POUR EVITER TOUT DOMMAGE POUVANT CAUSER UN INCENDIE OU UN CHOC ELECTRIQUE, FAITES ATTENTION A NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE.

La prise de courant doit être située près de l'appareil et doit être facilement accessible.



Lisez et suivez ces instructions lorsque vous connectez et utilisez votre Moniteur d'information du public :

- Débranchez le moniteur si vous n'allez pas l'utiliser pendant une longue période de temps.
- Débranchez le moniteur si vous voulez le nettoyer ; utilisez uniquement un chiffon légèrement humide. L'écran peut être essuyé avec un chiffon sec lorsqu'il est éteint. Cependant n'utilisez jamais de l'alcool, des solvants ou des liquides à base d'ammoniaque.
- Consultez un technicien de service si le moniteur ne marche pas normalement lorsque vous avez suivi les instructions de ce manuel.
- Le boîtier ne doit être ouvert que par un technicien qualifié.
- Gardez le moniteur à l'abri du soleil et des poêles ou toute autre source de chaleur.
- Enlevez les objets qui pourraient tomber dans les fentes de ventilation ou obstruer le refroidissement des composants électroniques du moniteur.
- N'obstruez pas les fentes de ventilation du boîtier.
- Gardez le moniteur au sec. Pour réduire le risque d'incendie, évitez de l'exposer à la pluie ou à une humidité excessive.
- Si vous éteignez le moniteur en débranchant le cordon d'alimentation, attendez au moins 6 secondes avant de rebrancher le câble d'alimentation pour l'utiliser.
- Pour réduire le risque d'électrocution ou de dommage irréparable au moniteur, ne l'exposez pas à la pluie ou à une humidité excessive.
- Lors de la mise en place du moniteur, veillez à ce que la fiche d'alimentation et la prise soient facilement accessibles.
- **IMPORTANT :** Utilisez toujours un programme d'économiseur d'écran pendant votre application. Si une image à fort contraste reste affichée sur l'écran pendant une longue période de temps, elle peut laisser un « image résiduelle » ou une « image fantôme » sur la partie frontale de l'écran. Ceci est un phénomène bien connu qui est causé par des défauts propres à la technologie LCD. Dans la plupart des cas, l'image fantôme disparaîtra graduellement sur une certaine période de temps une fois que l'alimentation a été coupée. Souvenez-vous que le problème qui cause des images fantômes ne peut pas être réparé et n'est donc pas couvert par la garantie.

Précautions de sécurité importantes

1. Lisez ces instructions.
2. Conservez ces instructions.
3. Prenez en compte tous les avertissements.
4. Suivez toutes les instructions.
5. N'utilisez pas cet appareil près de l'eau.
6. Ne pas utiliser plus de 16 heures par jour.
7. Nettoyez l'appareil uniquement avec un chiffon sec.
8. Ne bloquez pas les orifices de ventilation. Installez l'appareil en suivant les instructions du fabricant.
9. N'installez pas l'appareil près d'une source de chaleur telle qu'un radiateur, une chaudière, une cuisinière ou un autre appareil (y compris des amplificateurs) produisant de la chaleur.
10. N'invalidez pas les caractéristiques de sécurité de la fiche polarisée ou avec mise à la terre. Une fiche polarisée possède deux broches, une plus large que l'autre. Une fiche avec mise à la terre possède deux broches et une troisième broche de mise à la terre. La lame large et la troisième broche de mise à la terre ont été faites pour des raisons de sécurité. Si la fiche ne se branche pas dans la prise, consultez un électricien pour faire remplacer la prise.
11. Protégez le cordon d'alimentation et empêchez qu'il soit piétiné, ou pincé, particulièrement au niveau de la prise secteur murale et de la sortie de l'appareil.
12. Utilisez uniquement des dispositifs auxiliaires/accessoires spécifiés par le fabricant.
13. Utilisez uniquement avec un chariot, socle, trépied, support ou table spécifié par le fabricant ou vendu avec l'appareil. Si vous utilisez un chariot, faites attention lors du déplacement du chariot pour éviter tout risque de blessures.
14. Débranchez l'appareil pendant un orage ou lorsqu'il ne doit pas être utilisé pendant une période prolongée.
15. Pour toute réparation, consultez une personne qualifiée. L'appareil doit être réparé s'il a été endommagé de n'importe quelle façon, comme quand, par exemple, le cordon ou la fiche d'alimentation est endommagé, un liquide ou un objet a pénétré à l'intérieur de l'appareil, l'appareil a été exposé à la pluie ou l'humidité, ne fonctionne pas normalement ou est tombé.



AVERTISSEMENT : Pour éviter toute blessure, cet appareil doit être solidement fixé au plancher/au mur selon les instructions d'installation.

AVERTISSEMENT : Cet équipement est conforme à la classe A d'EN55032/CISPR 32. Dans un environnement résidentiel, cet équipement peut provoquer des interférences radio.

AVERTISSEMENT : Il s'agit d'un produit de classe A. Dans un environnement domestique, ce produit peut générer des interférences radio, auquel cas l'utilisateur devra prendre les mesures adéquates.

ATTENTION : Les instructions d'entretien suivantes sont destinées au personnel d'entretien seulement. Pour réduire le risque de choc électrique, n'effectuez jamais des entretiens qui ne sont pas expliqués dans le manuel de l'utilisateur, à moins que vous ne soyez qualifié à le faire.

ATTENTION : Un volume sonore excessif des écouteurs ou du casque est susceptible de provoquer des pertes auditives. Un réglage de l'égaliseur au maximum augmente la tension en sortie dans les écouteurs ou le casque et de ce fait augmente le niveau de pression sonore. Donc, pour protéger vos oreilles, ajustez l'égaliseur à un niveau approprié.

REMARQUE: Cet appareil a été testé et déclaré conforme aux limites définies pour les appareils numériques de Classe A suivant l'article 15 du règlement de la FCC. Device, pursuant to part 15 of the FCC Rules. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans les installations commerciales. Protection against harmful interference when the equipment is operated in a commercial environment. Cet appareil génère, utilise et peut diffuser des fréquences radioélectriques et, s'il n'est pas installé et utilisé conformément au manuel d'instructions du fabricant, il peut causer des interférences nuisibles aux communications radio. L'utilisation de cet appareil dans un environnement résidentiel est susceptible de causer des interférences nuisibles et, le cas échéant, il sera la responsabilité de l'utilisateur de prendre des mesures adéquates pour éliminer ces interférences.

AVERTISSEMENT : POUR RÉDUIRE LE RISQUE D'INCENDIE ET DE CHOC ÉLECTRIQUE, VEUILLEZ NE PAS EXPOSER CET APPAREIL À LA PLUIE OU À L'HUMIDITÉ.

AVERTISSEMENT : Gardez cet appareil à l'abri de l'eau et de tout autre liquide ; aucun objet contenant de l'eau, tel qu'un vase, ne doit être posé sur cet appareil.

AVERTISSEMENT : N'exposez jamais les piles (les piles installées) à une chaleur intense comme en plein soleil, le feu ou autre.

AVERTISSEMENT : La prise principale ou le coupleur de l'appareil est utilisé pour couper l'alimentation à l'appareil ; ceux-ci doivent donc rester facilement accessibles à tout moment.

AVERTISSEMENT : Pour éviter la propagation du feu, éloignez toujours les bougies et autres flammes nues de ce produit.



Important Waste Disposal Information

Please recycle or dispose of all electronic waste in accordance with local, state, and federal laws. Additional resources can be found online at <http://www.planar.com/about/green/>.

The crossed-out wheellie bin symbol is to notify consumers in areas subject to Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU that the product was placed on the market after August 13, 2005 and must not be disposed of with other waste. Separate collection and recycling of electronic waste at the time of disposal ensures that it is recycled in a manner that minimizes impacts to human health and the environment. For more information about the proper disposal of electronic waste, please contact your local authority, your household waste disposal service, or the seller from whom you purchased the product.



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1. Unpacking and Installation

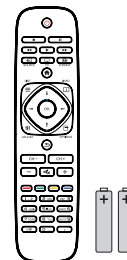
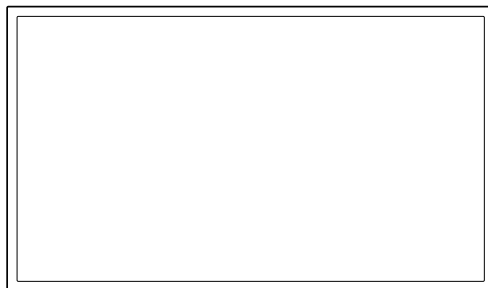
1.1. Unpacking

- This product is packed in a carton, together with the standard accessories.
- Any other optional accessories will be packed separately.
- Due to the size and weight of this display it is recommended for two people to move it.
- After opening the carton, ensure that the contents are complete and in good condition.

1.2. Package Contents

Please verify that you received the following items with your package content:

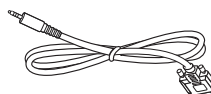
- LCD display
- Quick Start Guide
- Remote control with AAA batteries
- Power cord (1.8 m)
- HDMI cable (1.8 m)
- RS232 cable (1.8 m)
- Cable clamps (2)



Remote Control
and AAA Batteries



Power Cord



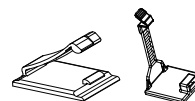
RS232 Cable



HDMI Cable



Quick Start Guide



Cable Clamps (2)

NOTES:

- For all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country.
- You might like to save the package box and packing material for shipping the display.

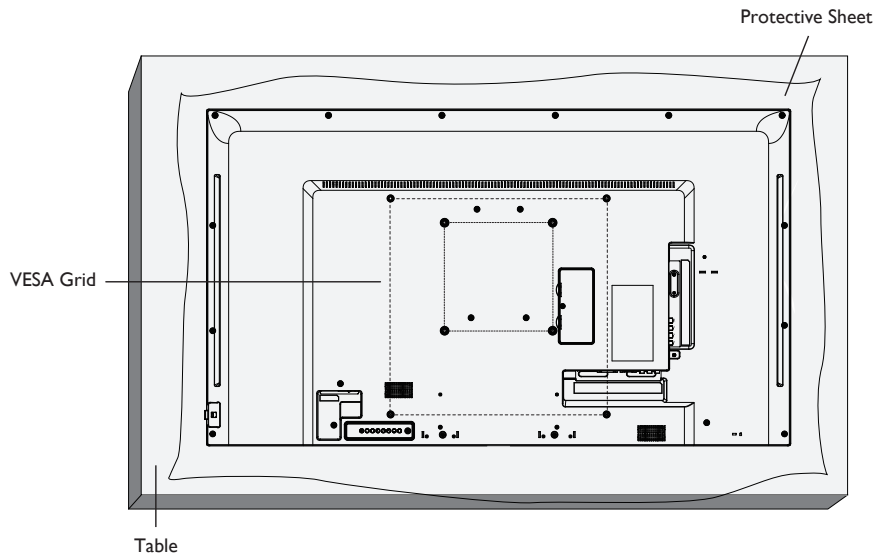
1.3. Installation Notes

- Due to the high power consumption, always use the plug exclusively designed for this product.
- The product should be installed on a flat surface to avoid tipping. The distance between the back of the product and the wall should be maintained for proper ventilation. Avoid installing the product in the kitchen, bathroom or any other places with high humidity so as not to shorten the service life of the electronic components.
- The product can normally operate only under 3000m in altitude. In installations at altitudes above 3000m, some abnormalities may be experienced.

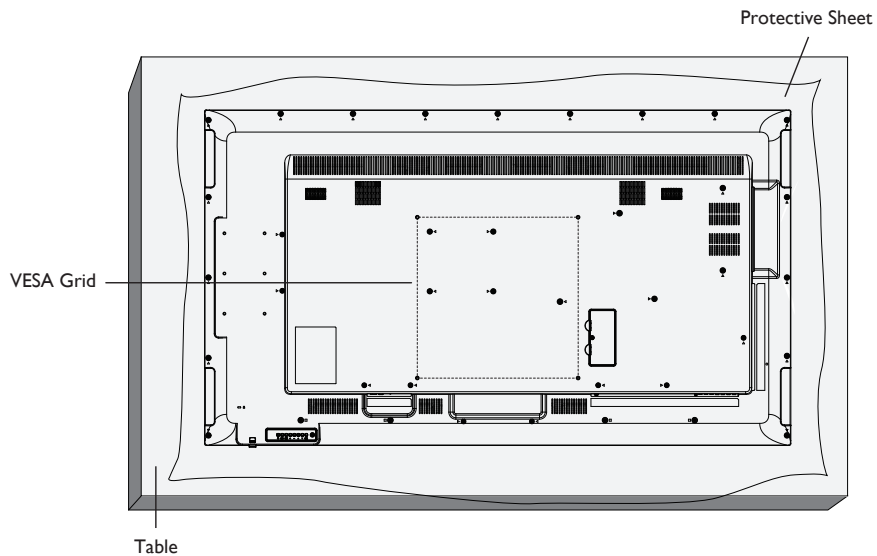
1.4. Mounting on a Wall

To mount this display to a wall, you will have to obtain a standard wall-mounting kit (commercially available). We recommend using a mounting interface that complies with TUV-GS and/or UL1678 standard in North America.

Planar SL4351/SL4851/SL5551



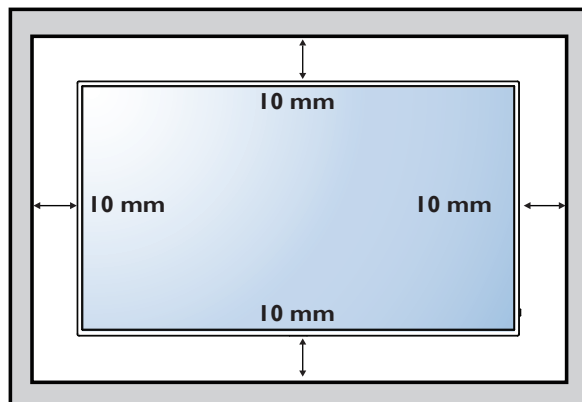
Planar SL6551



1. Lay a protective sheet on a table, which was wrapped around the display when it was packaged, beneath the screen surface so as not to scratch the screen face.
2. Ensure you have all accessories for mounting this display (wall mount, ceiling mount, table stand, etc).
3. Follow the instructions that come with the base mounting kit. Failure to follow correct mounting procedures could result in damage to the equipment or injury to the user or installer. Product warranty does not cover damage caused by improper installation.
4. For the wall-mounting kit, use M6 mounting screws (having a length 10 mm longer than the thickness of the mounting bracket) and tighten them securely.

Ventilation requirements for enclosure

To allow heat to disperse, leave space between surrounding objects as shown in the diagram below.

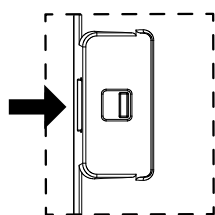


1.5. IR Remote Sensor and Power Status Indicator

1. For optimal IR remote control performance, pull out the retractable lens from the backside of the display. The LED power status light is also best viewed when the lens is pulled out.

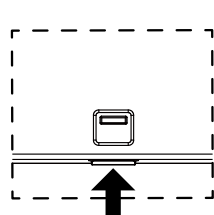
2. You will hear a click when the lens is fully in position.

SL4351/SL4851/SL5551

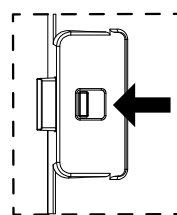


Push in to collapse the lens

SL6551

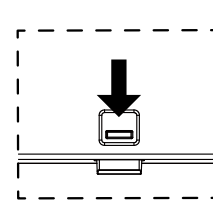


SL4351/SL4851/SL5551



Push out to extend the lens

SL6551



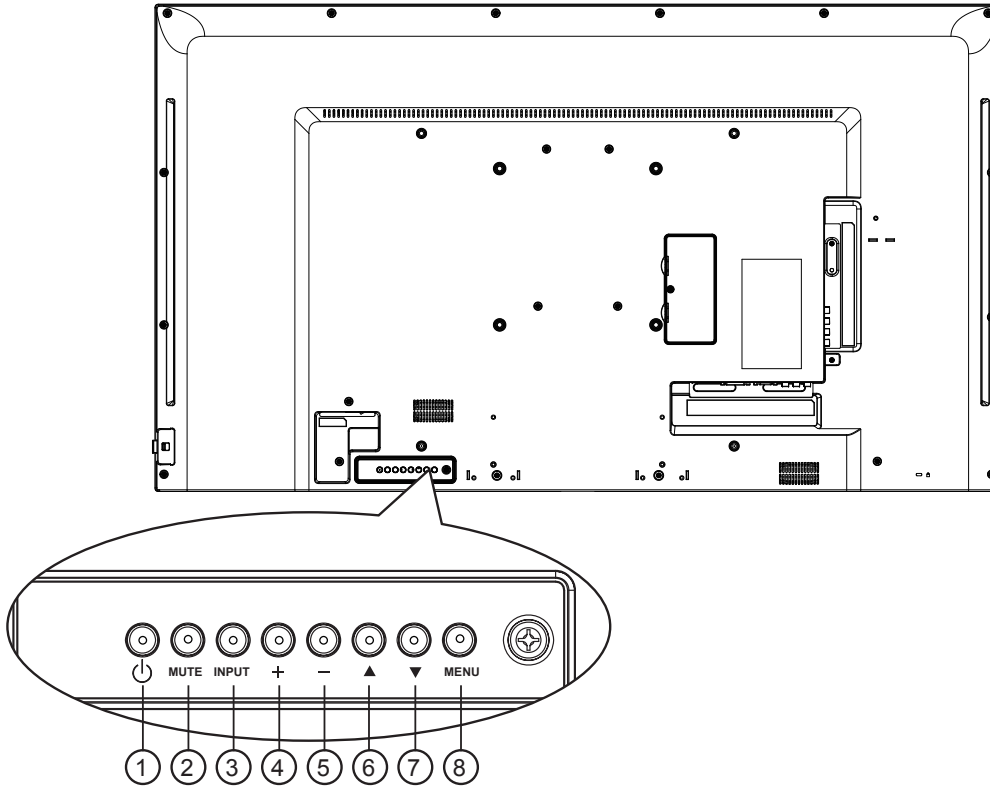
1.6. Mounting in Portrait Position

This display can be installed in portrait position. Rotate 90 degrees clockwise from the back side of the display. The terminals will be on the left and bottom sides of the user from the back of the display.

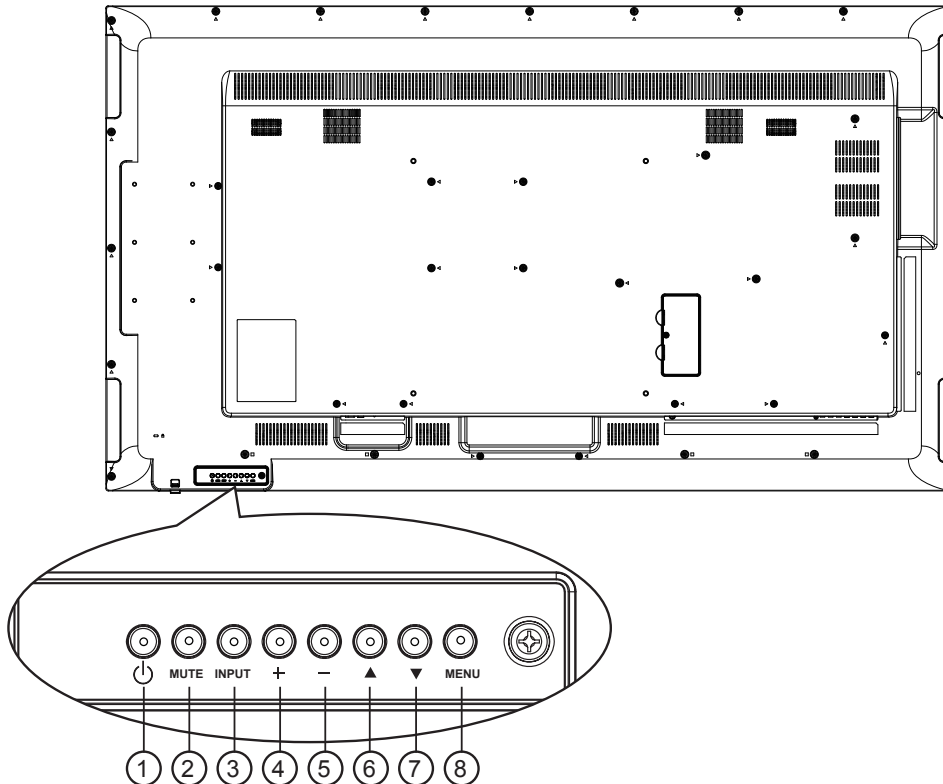
2. Parts and Functions

2.1. Control Panel

Planar SL4351/SL4851/SL5551



Planar SL6551



① [⏻] button

Use this button to turn the display on or put the display to standby.

② [MUTE] button

Switch the audio mute ON/OFF.

③ [INPUT] button

Choose the input source.

- Used as [OK] button in the On-Screen-Display menu.

④ [⏮] button

Move the highlight bar up / Increase the adjustment while OSD menu is on, or increase the audio output level while OSD menu is off.

⑤ [⏭] button

Move the highlight bar down / Decrease the adjustment while OSD menu is on, or decrease the audio output level while OSD menu is off.

⑥ [▲] button

Move the highlight bar up to adjust the selected item while OSD menu is on.

⑦ [▼] button

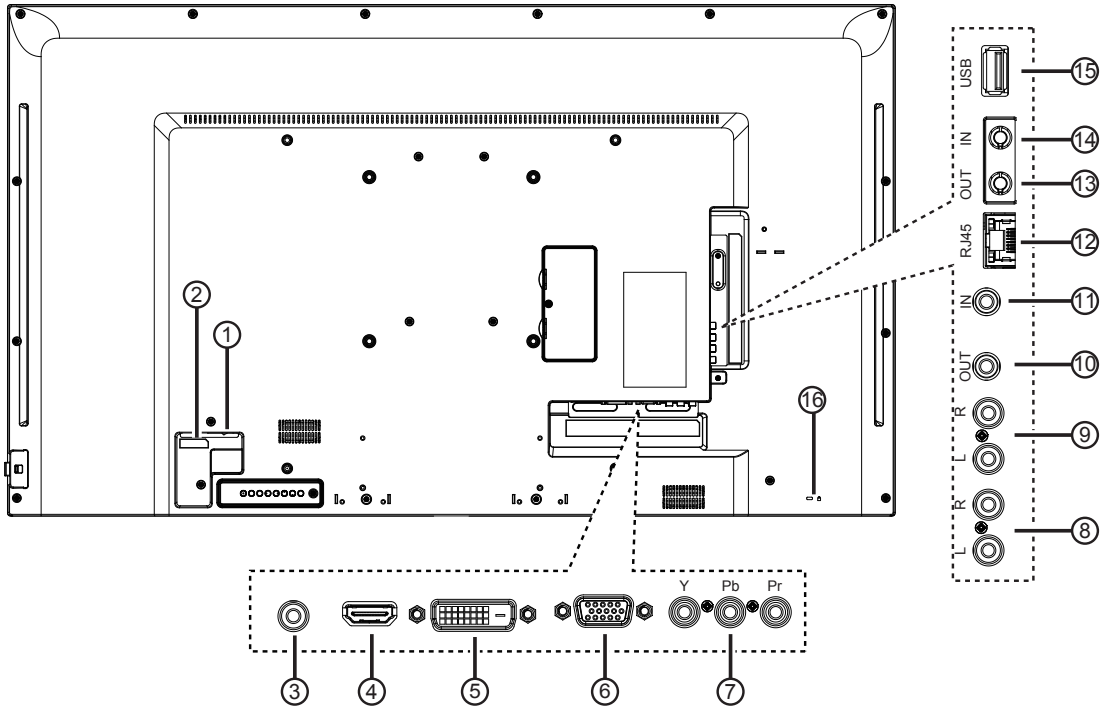
Move the highlight bar down to adjust the selected item while OSD menu is on.

⑧ [MENU] button

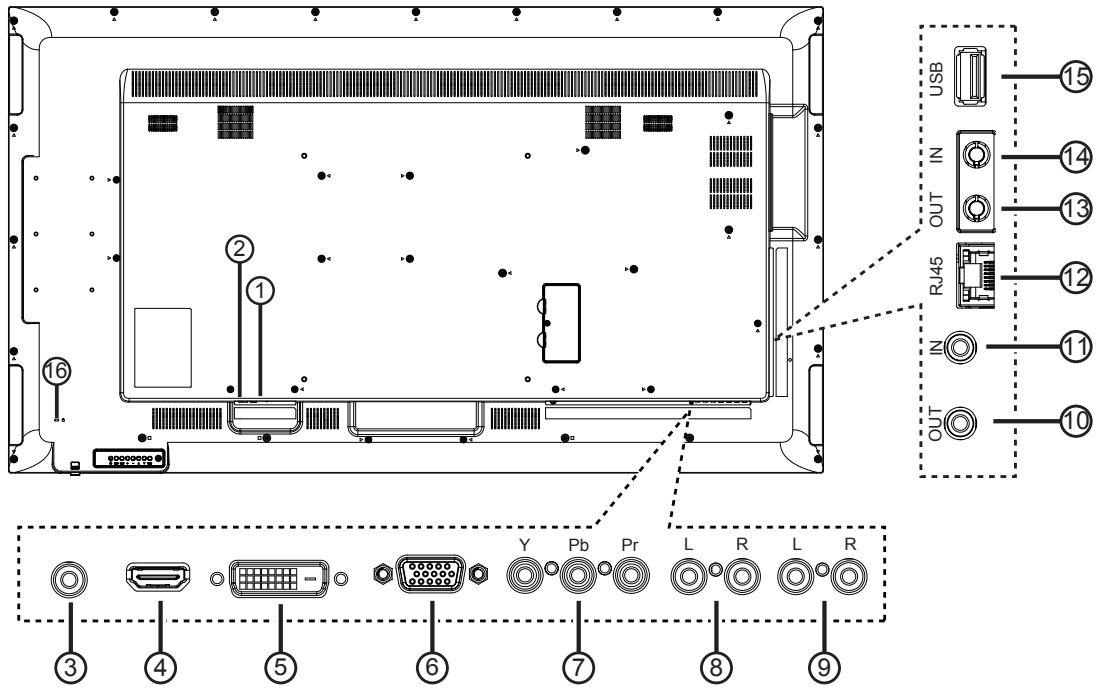
Return to previous menu while OSD menu is on, or to activate the OSD menu when OSD menu is off.

2.2. Input/Output Terminals

Planar SL4351/SL4851/SL5551



Planar SL6551



① MAIN POWER SWITCH

Switch the main power on/off.

② AC IN

AC power input from the wall outlet.

③ PC AUDIO IN

Audio input from VGA source (3,5mm stereo phone).

④ HDMI IN

HDMI video / audio input.

⑤ DVI IN

DVI-D video input.

⑥ VGA IN (D-Sub)

VGA video input.

⑦ COMPOSITE/COMPONENT VIDEO

Video source input.

⑧ AUDIO IN

Audio input from external AV device (RCA).

⑨ AUDIO OUT

Audio output to external AV device.

⑩ IR OUT / ⑪ IR IN

IR signal output /input for the loop-through function.

NOTES:

- This display's remote control sensor will stop working if the jack [IR IN] is connected.
- To remotely control your AV device via this display, refer to page 16 for **IR Pass Through** connection.

⑫ LAN

LAN control function for remote control from a network.

⑬ RS232 OUT / ⑭ RS232 IN

RS232C network output / input for the loop-through function.

⑮ USB PORT

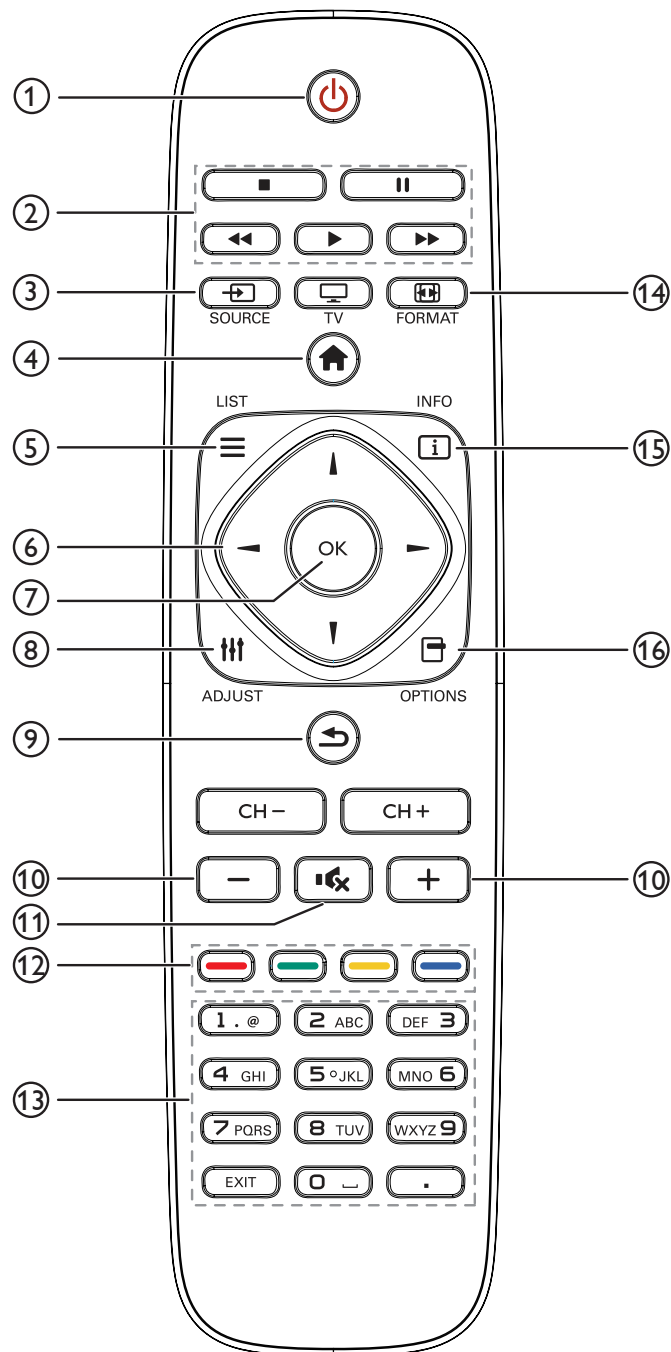
Connect your USB storage device.

⑯ Security LOCK

Used for security and theft prevention.

2.3. Remote Control

2.3.1. General functions



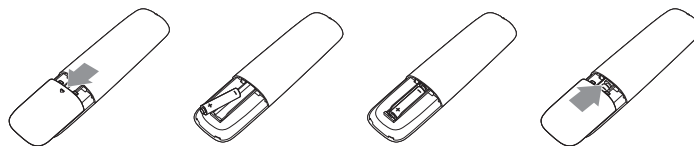
- ① **[POWER] POWER button**
Turn the display on or to put the display into standby mode.
- ② **[PLAY] buttons**
Control playback of media files.
- ③ **[SOURCE] SOURCE button**
Choose input source. Press [←] or [→] button to choose from **USB, Network, HDMI, DVI, YPbPr, AV,** or **VGA.** Press [OK] button to confirm and exit.
- ④ **[HOME] HOME button**
Access the OSD menu.
- ⑤ **[LIST] LIST button**
Not applicable.
- ⑥ **[UP] [DOWN] [LEFT] [RIGHT] NAVIGATION buttons**
Navigate through menus and choose items.
- ⑦ **[OK] button**
Confirm an entry or selection.
- ⑧ **[ADJUST] ADJUST button**
Access currently available options, picture and sound menus.
- ⑨ **[BACK] BACK button**
Return to the previous menu page or exit from the previous function.
- ⑩ **[VOL-] [VOL+] VOLUME button**
Adjust volume.
- ⑪ **[MUTE] MUTE button**
Press to turn the mute function on/off.
- ⑫ **[RED] [GREEN] [YELLOW] [BLUE] COLOR buttons**
Select tasks or options for media player.
- ⑬ **[NUMERIC] buttons**
Enter text for network setting.
- ⑭ **[FORMAT] FORMAT button**
Change aspect ratio.
- ⑮ **[INFO] INFO button**
View info about the display.
- ⑯ **[OPTIONS] OPTIONS button**
Access currently available options, picture and sound menus.

2.3.2. Inserting the batteries in the remote control

The remote control is powered by two 1.5V AAA batteries.

To install or replace batteries:

1. Press and then slide the cover to open it.
2. Align the batteries according to the (+) and (-) indications inside the battery compartment.
3. Replace the cover.



Caution:

The incorrect use of batteries can result in leaks or bursting. Be sure to follow these instructions:

- Place "AAA" batteries matching the (+) and (-) signs on each battery to the (+) and (-) signs of the battery compartment.
- Do not mix battery types.
- Do not combine new batteries with used ones. It causes shorter life or leakage of batteries.
- Remove the dead batteries immediately to prevent them from liquid leaking in the battery compartment. Don't touch exposed battery acid, as it can damage your skin.

NOTE: If you do not intend to use the remote control for a long period, remove the batteries.

2.3.3. Handling the remote control

- Do not subject to strong shock.
- Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
- Avoid exposure to heat and steam.
- Other than to install the batteries, do not open the remote control.

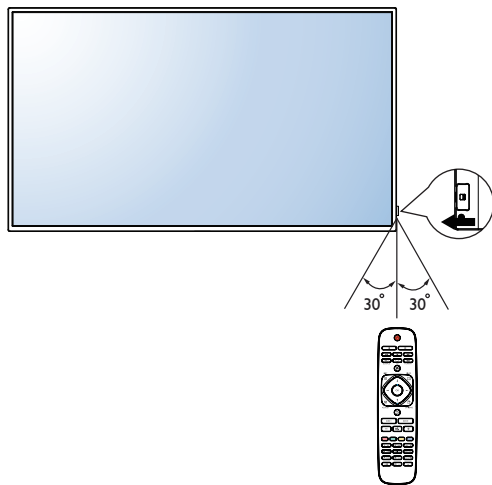
2.3.4. Operating range of the remote control

Point the front of the remote control toward this display's remote control sensor when pressing a button.

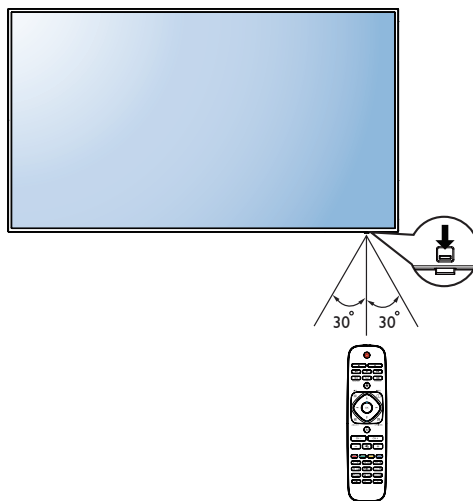
Use the remote control within a distance of less than 5m/16ft from this display's sensor, and a horizontal and vertical angle of less than 30 degrees.

NOTE: The remote control may not function properly when the remote control sensor on this display is under direct sunlight or strong illumination, or when there is an obstacle in the path of signal transmission.

SL4351/SL4851/SL5551



SL6551



2.4. RS232 Control

See www.planar.com for the Planar® Simplicity™ RS-232 manual.

2.5. LAN Control

The Planar Simplicity Series supports extending access to the RS232 commands over a network connection. Below are the steps to follow for controlling the display over LAN through the RJ45 connector:

1. Connect display & PC to hub or connect display to PC with LAN cable directly.

2. SET display IP address

Step 1: In Network Settings menu, select "Network configuration" -> "Static IP"

Step 2: Then go to "Static IP configuration" and enter the pertinent information.

Step 3: "View network settings" to check IP address

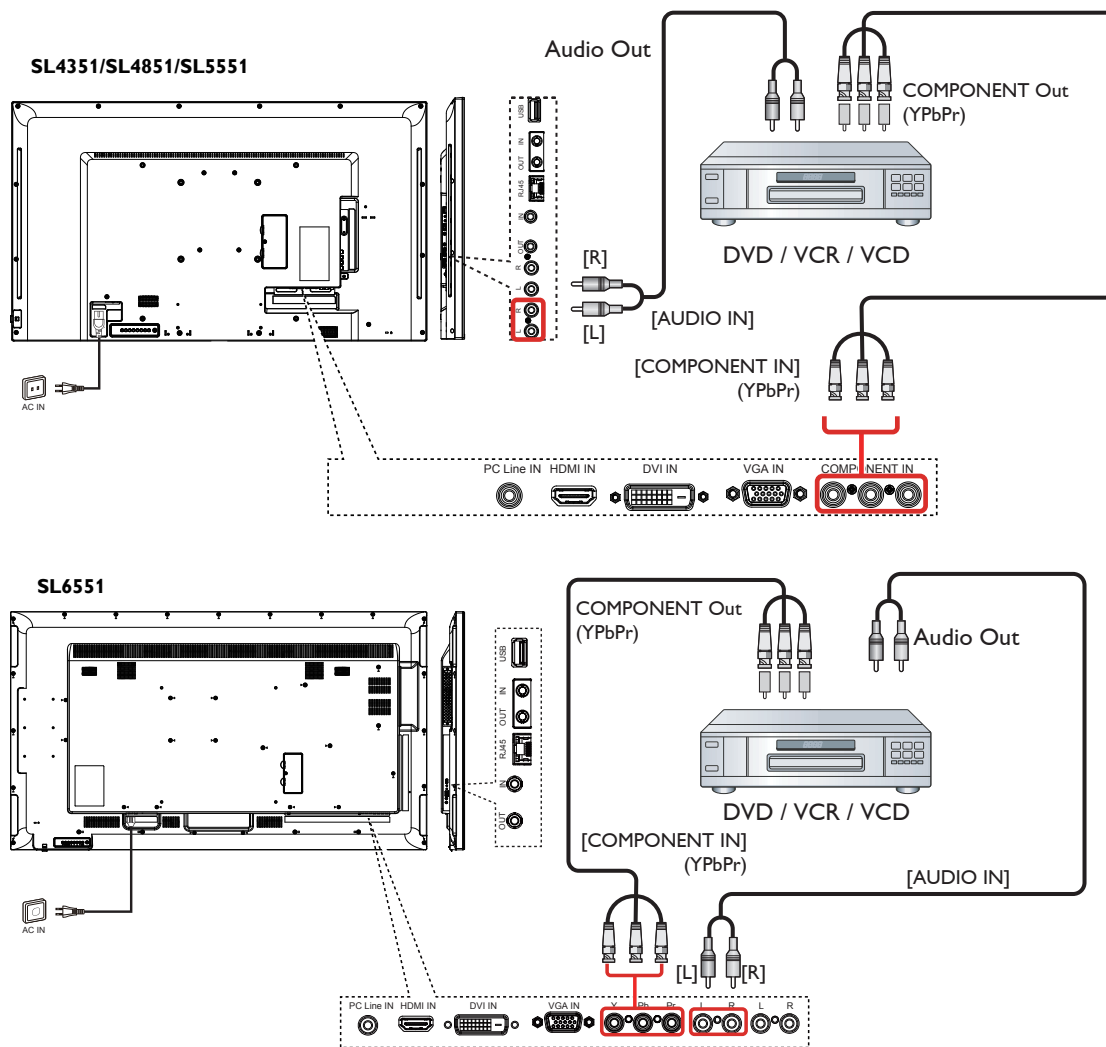
3. Commands are sent via TCP connection to port 5000. The commands are the same as for the RS232 port (see Simplicity RS-232 manual on www.planar.com).

4. You can test commands using any TCP utility program that allows you to enter binary data in hexadecimal format. (Note: Contact Planar Technical Support for recommended programs.)

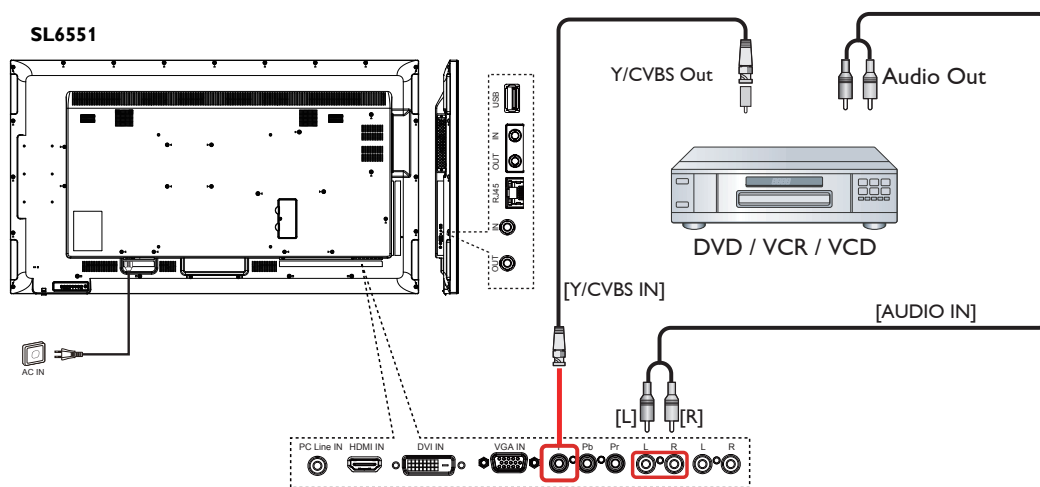
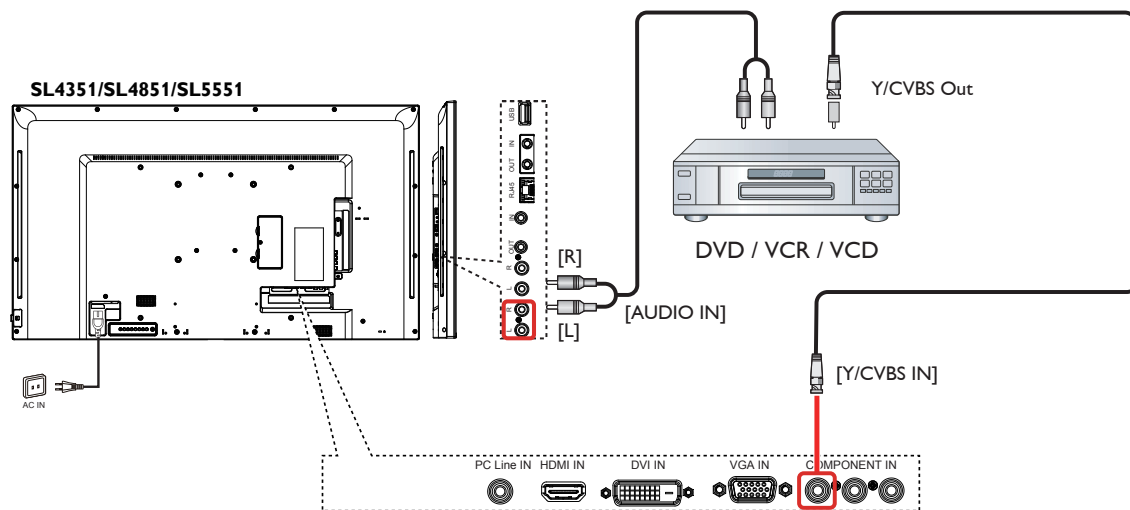
3. Connecting External Equipment

3.1. Connecting External Equipment (DVD/VCR/VCD)

3.1.1. Using COMPONENT video input

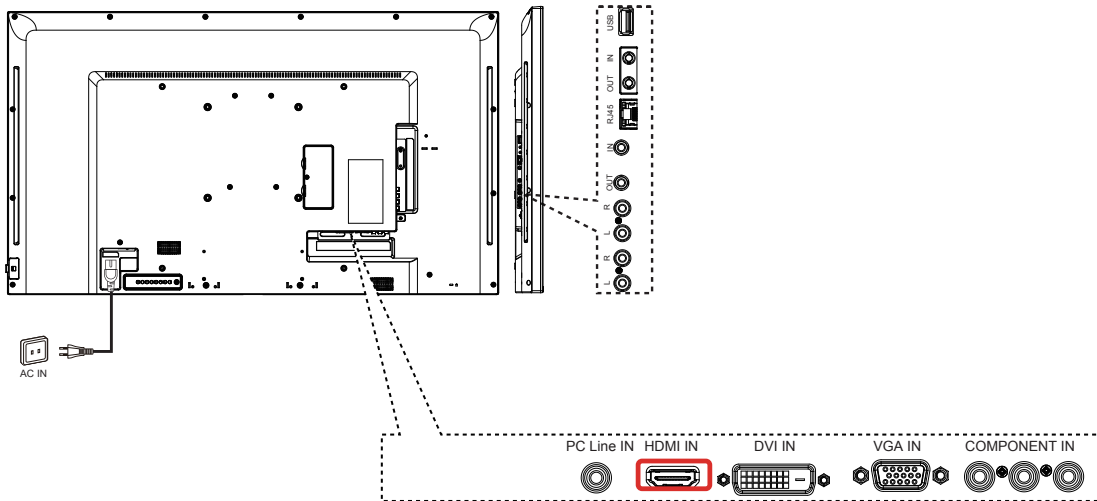


3.1.2. Using Video Source input

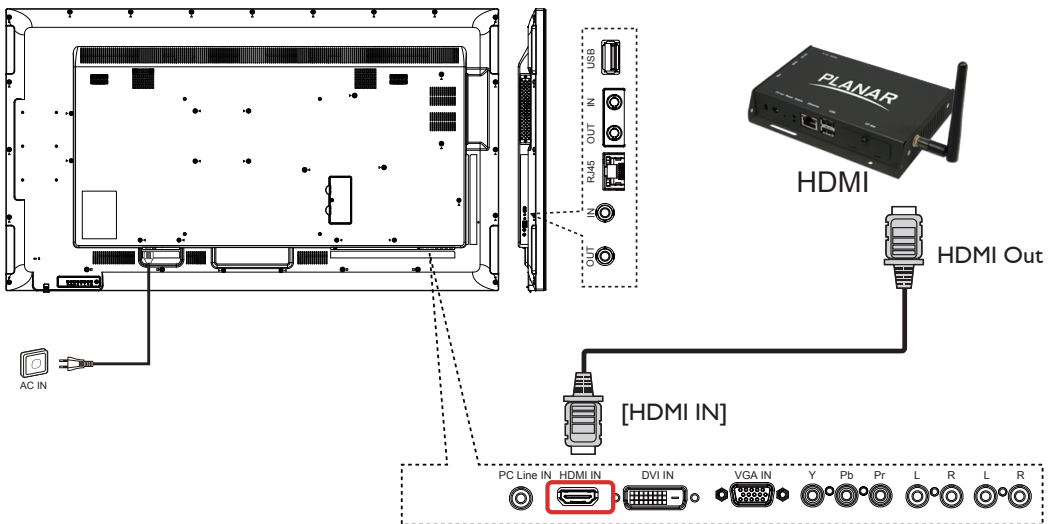


3.1.3. Using HDMI video input

SL4351/SL4851/SL5551

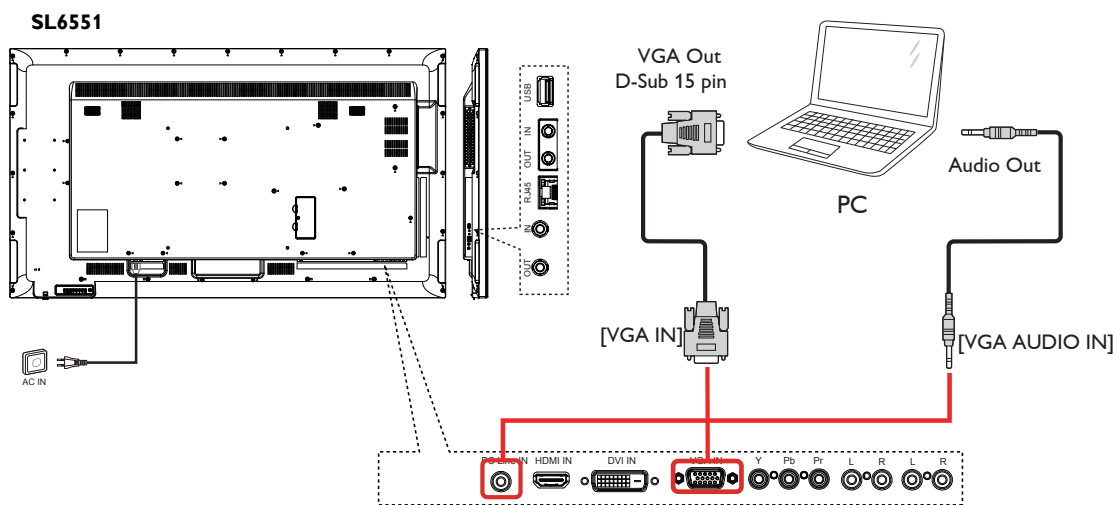
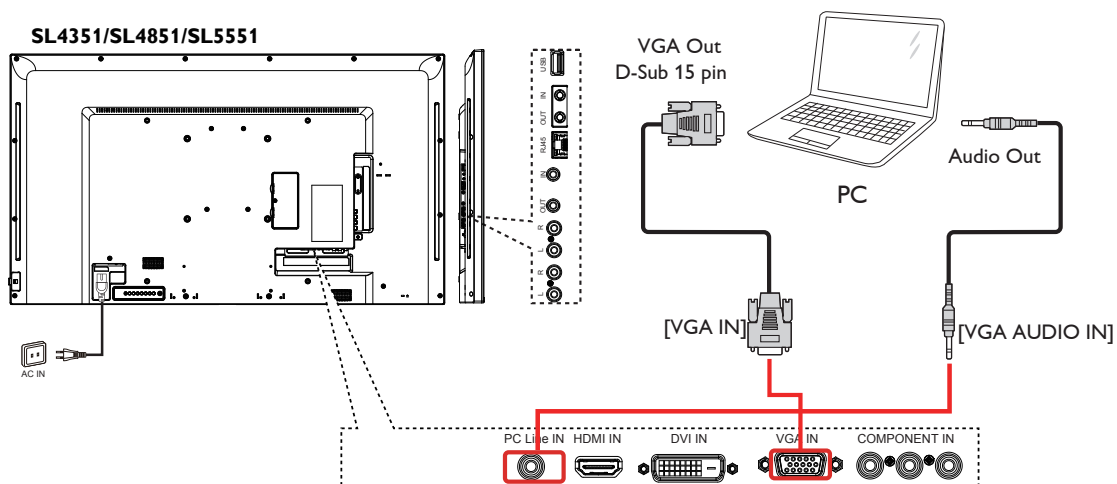


SL6551

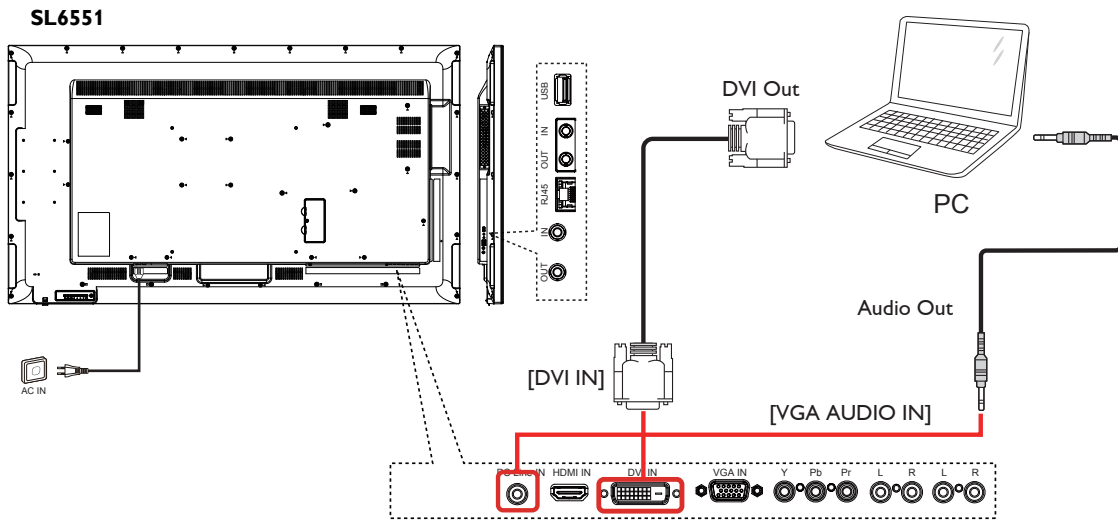
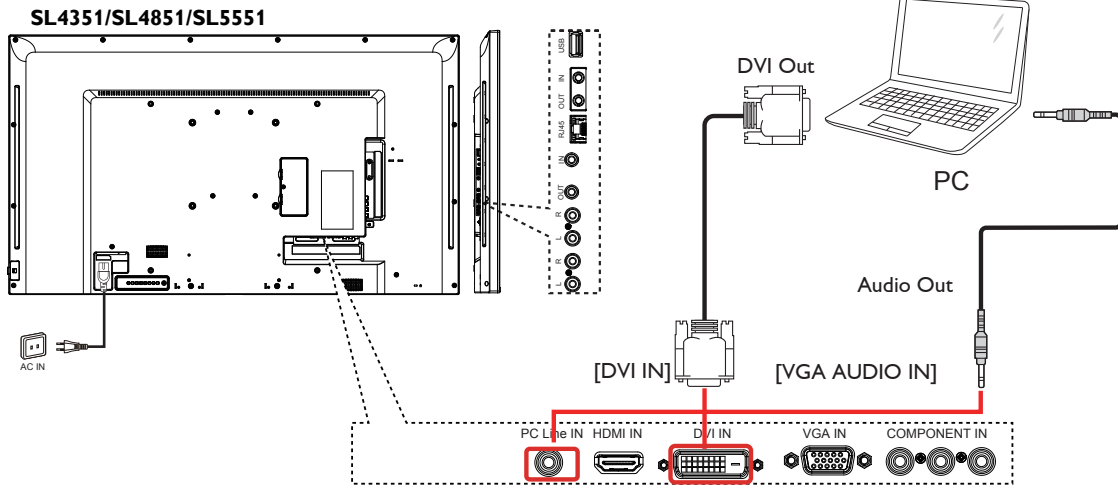


3.2. Connecting a PC

3.2.1. Using VGA input

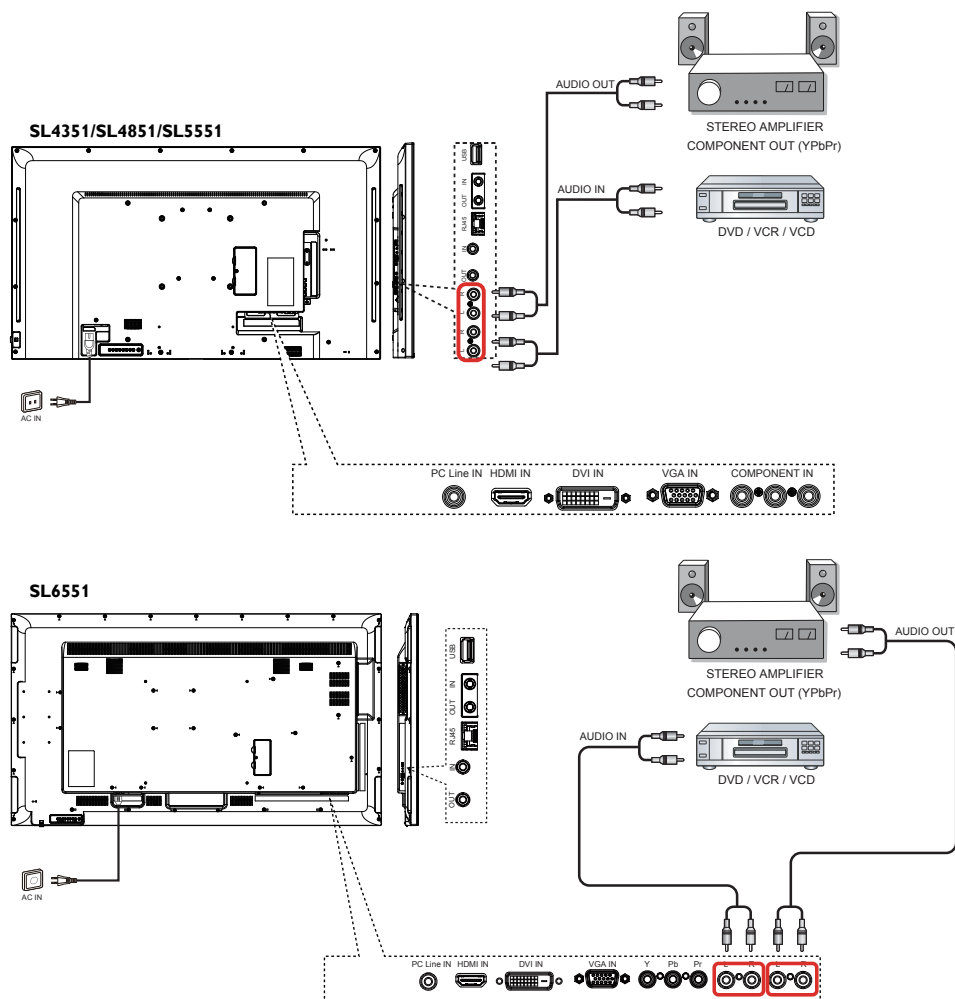


3.2.2. Using DVI input



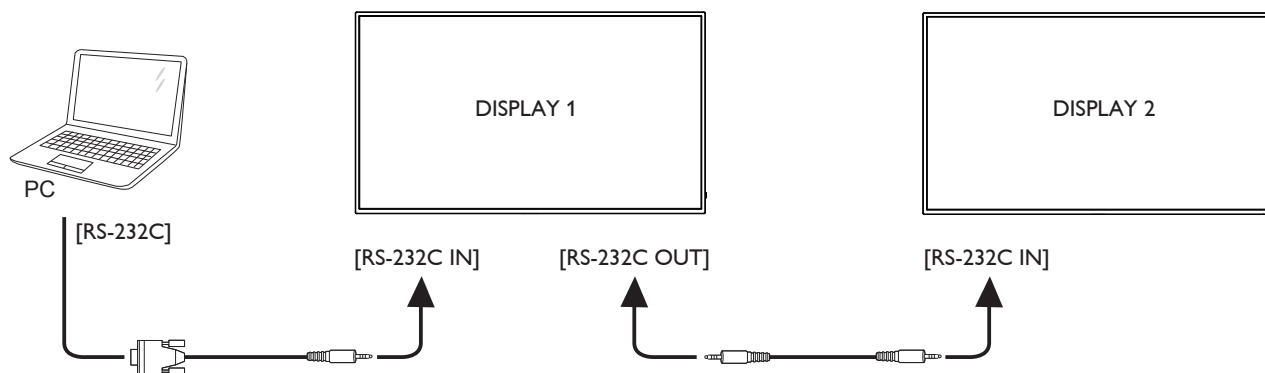
3.3. Connecting Audio Equipment

3.3.1. Connecting an external audio device

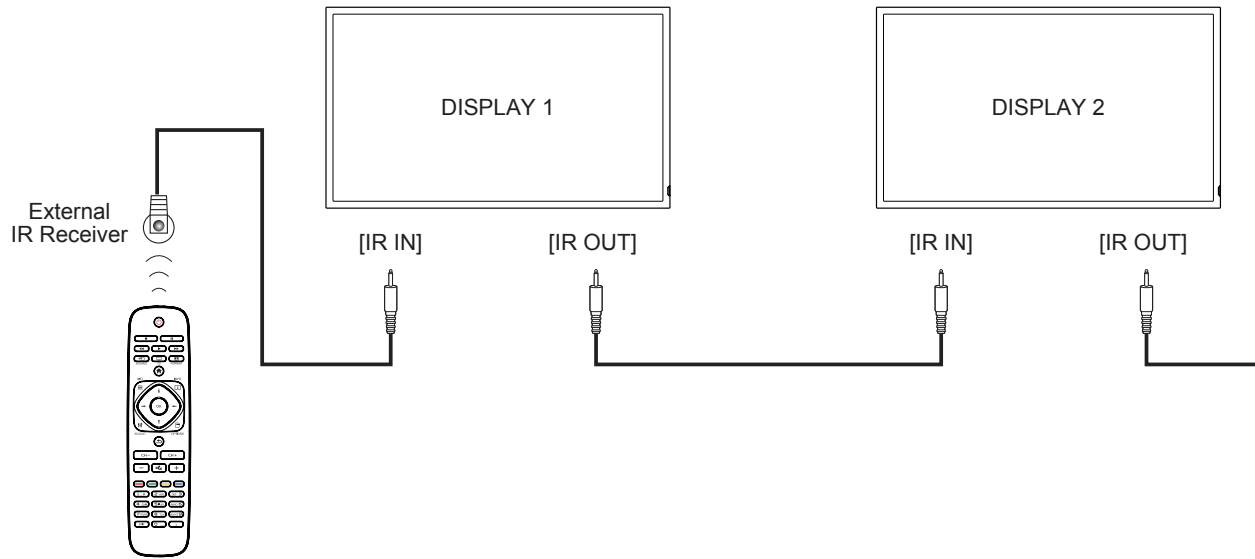


3.4. Display control connection

Connect the [RS232C OUT] connector of DISPLAY 1 to the [RS232C IN] connector of DISPLAY 2.

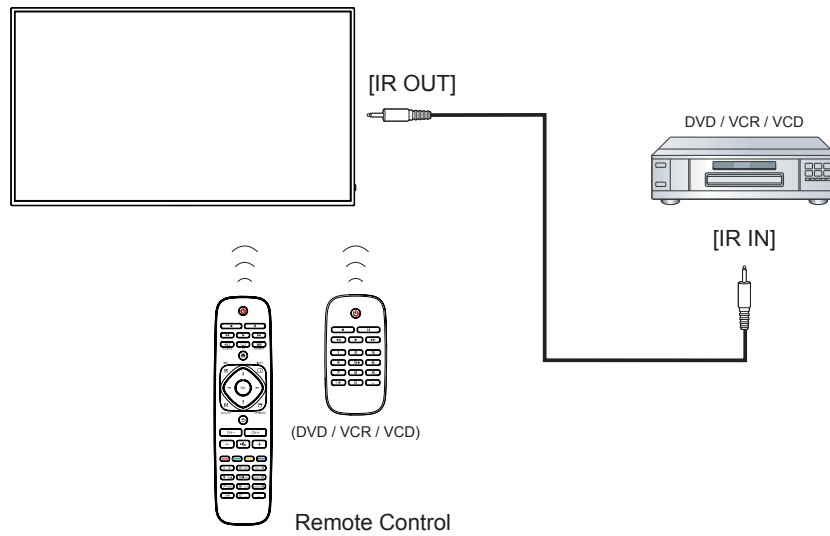


3.5. IR connection



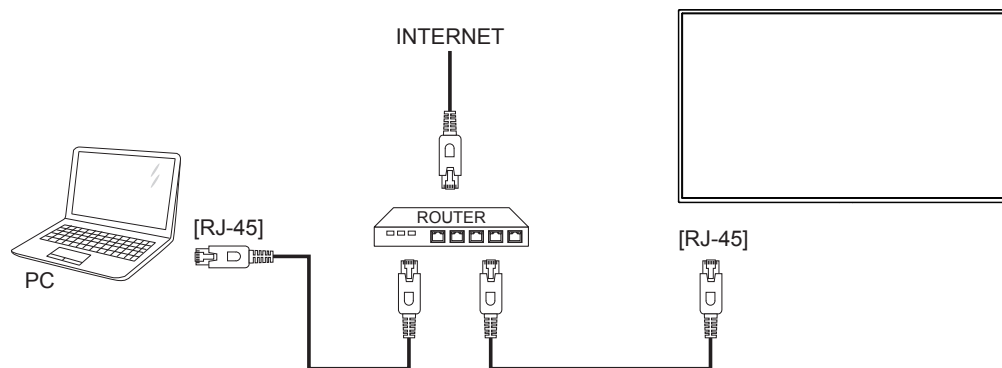
NOTE: This display's remote control sensor will stop working if the [IR IN] is connected.

3.6. IR Pass-through Connection



3.7. Connecting Display to the Network

If you connect the display to a network, you can play photos, videos, and music from your computer.



To set up the connection::

1. Connect the display with a LAN cable connected to a hub or router on your network.
 2. Press **HOME** button to display the OSD menu.
 3. Press **▲** or **▼** button to select the menu item {Network setting}. Press **OK** button to enter its submenu.
 4. Go to network configuration and select DHCP & Auto IP or Static IP. If you select Static IP, you will need to enter the information in the Static IP Configuration menu.
 5. Connect the PC with a LAN cable connected to the Ethernet using a hub or router. Identify the network on your computer.
 6. Confirm that a media server is running on your computer, such as Windows Media Player (11 or higher) for PC or Twonky for Mac.
 7. Make sure you have the appropriate settings on your computer firewall to allow you to run the media server through the network.
 8. See Play Multimedia Files (Page 15) for more detail on playing content.
- Manage security to files using standard Windows and Mac privacy features.

3.8. Connecting Display to a Wireless Device

If you connect the display to a wireless router, you can access files from a wireless device, like a smartphone, tablet, or laptop. For best results, we recommend using a device with built-in DLNA functionality. Do not connect multiple device at the same time.

To set up the connection:

1. Connect your wireless device to the internet to download app that are designed to send media via DLNA (Examples: iMediashare, ArkMC)
2. Connect your device to the wireless router.
3. Enable network sharing on your device. This varies for different phone/tablet models.
4. Enable DMR (Digital Media Renderer) feature on the display under Network Settings. Got to Digital Media Renderer submenu and select ON.
5. See Play Multimedia Files (Page 15) for more detail on playing content.

4. Operation

NOTE: The control button described in this section is mainly on the remote control unless specified otherwise.

4.1. Change Aspect Ratio

You can change the aspect ratio to suit the video source. Each video source has its available aspect ratios.

The aspect ratios depend on the video source:

1. Press **[FORMAT]** **FORMAT** button.
2. Press **[A]** or **[T]** button to choose an aspect ratio, then press **[OK]** button.

Options: Auto, Letterbox, Full Screen, Native, 4:3

4.2. Play Multimedia Files

You can play videos, photos, and music on your display from:

- Your computer connected to your network.
- A USB device connected to the display.
- A device connected wirelessly to a router connected to the display

Supported file system:

- FAT32

Supported file format:

- Music: MP3, WMA, M4A, AAC, AC3
- Movie: AVI, MP4, MOV, MPG/MPEG
- Photo: JPEG, BMP, GIF

4.2.1. Play files from computer

1. Connect your display to the network (see page 12)
2. Confirm that the computer, hub or router, and display are turned on and connected.
3. Switch on media sharing on your computer using the media server. For more information on how to set up the media server, refer to the website of the media server.
4. Press the **SOURCE** button on the remote and Select Network.
5. Select a file from the content browser; then press **OK** button to start playing.
6. When adding new multimedia files, exit the current file and return to the upper folder.
7. Use the remote control to control the media files on the display.

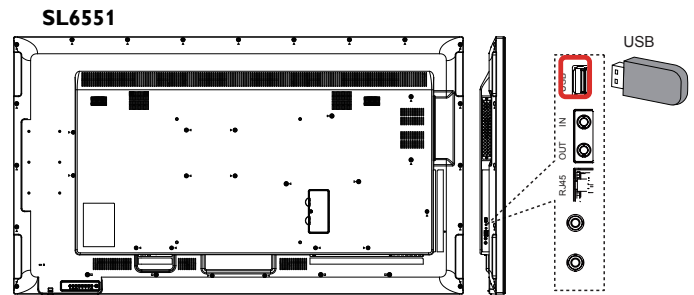
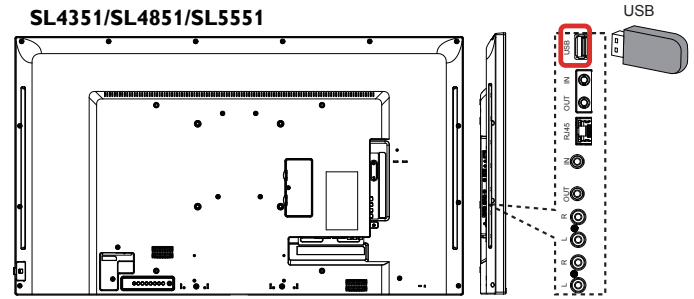
Tips:

- Select the top bar to filter your files by type.
- Select **[Sort]** to arrange the files by album name, artist, or other fields.
- To clear the list of offline media servers, press **[OPTIONS]** button, then select **[Clear offline servers]** and press **OK** button.

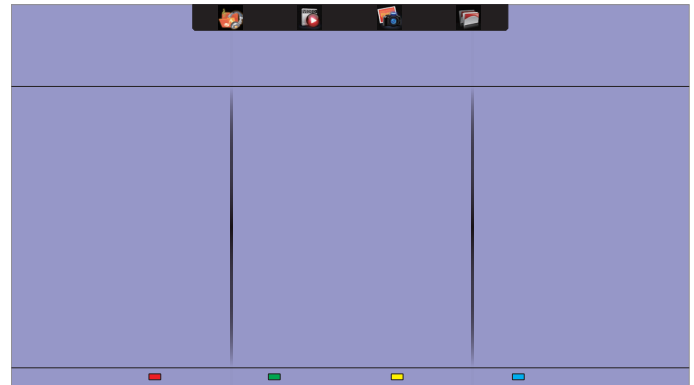
4.2.2. Play multimedia files from USB device

This display can play music, movie, or photo files from your USB device.

1. Connect your USB device to the USB port on this display.



2. Press **[SOURCE]** **SOURCE** button, select **USB**, then press **OK** button.
3. The connected USB device is detected automatically for all its playable files, which will be automatically sorted into 3 types: **Music** **Movie** and **Photo**



4. Press the **[BACK]** **BACK** button to go up to the top layer in the screen. Press **[Left/Right]** button to select the file type. Press **OK** button to enter its play list.
5. Select the file you want. Press **OK** button to start playing.
6. Follow the on-screen instruction to control the play option.
7. Press the **PLAY** buttons (**[Stop]** **[Play]** **[Previous]** **[Next]**) to control playing.


Caution:

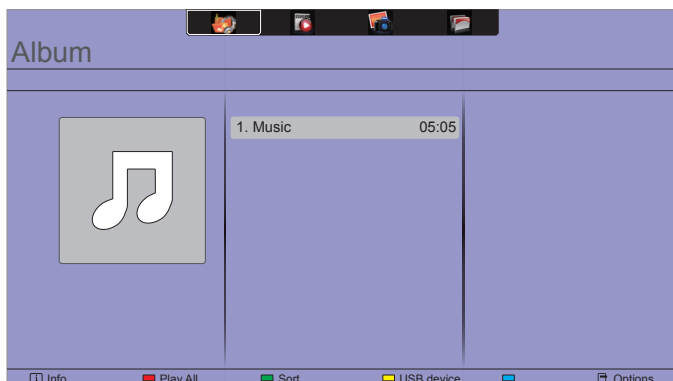
- The manufacturer is not responsible if the USB device is not supported, nor is it responsible for damage to or loss of data in the device.
- Do not overload the USB port. If you connect a USB storage device that consumes more than 500mA power, make sure that it is connected to its own external power supply.

NOTE: USB content will auto play for scheduled events only (see page 18 for Scheduling). If a display is powered down and powered up manually, the last input used prior to the USB source will be automatically detected at start up. If no input other than USB has been used, the display will detect the HDMI source.

4.3. Play options

4.3.1. Playing music files

1. Select **Music**  in the top bar.
2. Select one music track, then press **OK** button.





- To play all the tracks in a folder; select one music file, then select **{Play All}**.
- To skip to the next or previous track, press **CH+** or **VOL-** button.
- To pause the track, press **OK** button. Press **OK** button again to resume playback.
- To skip backward or forward 10 seconds, press **◀** or **▶** button.
- To search backward or forward, press **◀◀** or **▶▶** button, press repeatedly to toggle between different speeds.
- To stop the music, press **■** button.


Music options

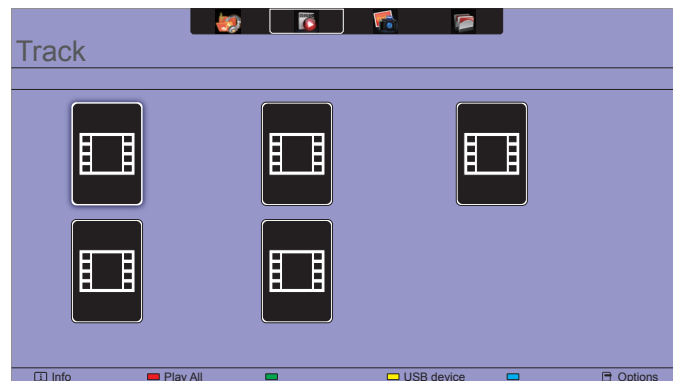
While you play music, press  **OPTIONS** button, then press **OK** button to select an option:

- **{Repeat}**: Select **{Repeat}** to play a track or an album repeatedly, or select **{Play once}** to play a track once.
- **{Media Server}**: When you play content from a media server, you can select another media server.
- **{Shuffle On}** / **{Shuffle Off}**: Enable or disable random play of tracks.

NOTE: To view information about a song (for example, title, artist or duration), select the song, then press  **INFO** button. To hide the information, press  **INFO** button again.

4.3.2. Playing movie files

1. Select **Movie**  in the top bar.
2. Select a video, then press **OK** button.





- To play all the videos in a folder; select one video file, then select **{Play All}**.
- To skip to the next or previous video, press **CH+** or **VOL-** button.
- To pause the video, press **OK** button. Press **OK** button again to resume playback.
- To skip backward or forward 10 seconds, press **◀** or **▶** button.
- To search backward or forward, press **◀◀** or **▶▶** button, press repeatedly to toggle between different speeds.
- To stop the video, press **■** button.


Movie options

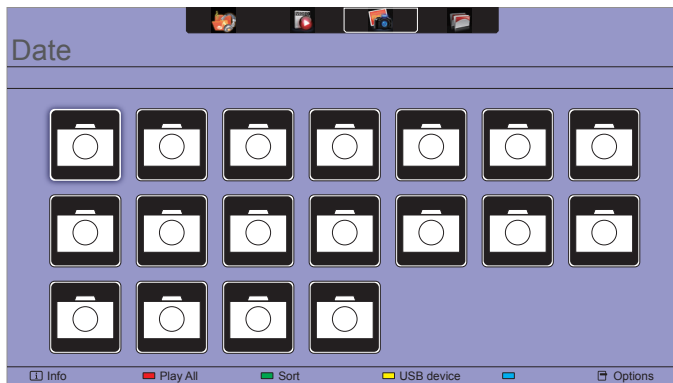
While playing video, press  **OPTIONS** button, then press **OK** button to select an option:

- **{Subtitles}**: Select the available subtitle settings.
- **{Subtitle Language}**: Select the language for subtitles if available.
- **{Character Set}**: Select the correct character set for the subtitles.
- **{Audio Language}**: Select an audio language.
- **{Repeat}**: Select **{Repeat}** to play the video file repeatedly or **{Play once}** to play the video file once.
- **{Media server}**: When you play content from a media server, you can select another media server.
- **{Shuffle On}** / **{Shuffle Off}**: Enable or disable random play of video files.

NOTE: To view information about a video (for example, played position, duration, title, or date), select the video, then press  **INFO** button. To hide the information, press  **INFO** button again.

4.3.3. Playing photo files

1. Select **Photo**  in the top bar.
2. Select a photo thumbnail, then press **OK** button.



Start a slideshow

If there are multiple photos in a folder; select a photo, then select **{Play All}**.

- To skip to the previous or next photo, press **◀** or **▶** button, and then press **OK** button.
- To stop the slideshow, press **■** button.

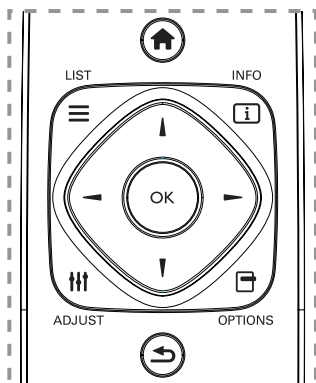
Slideshow options

While you play a slideshow, press **☰** **OPTIONS** button, then press **OK** button to select an option:

- **{Shuffle Off} / {Shuffle On}**: Enable or disable random display of pictures in the slideshow.
- **{Repeat}**: Select **{Repeat}** to watch a slideshow repeatedly or **{Play once}** to watch once.
- **{Slideshow Time}**: Select the displaying time for each photo in the slideshow.
- **{Slideshow Transitions}**: Select the transition from one photo to the next.
- **{Media Server}**: When you play content from a media server, you can select another media server.

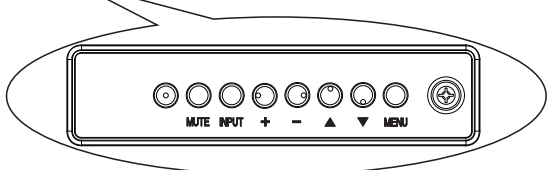
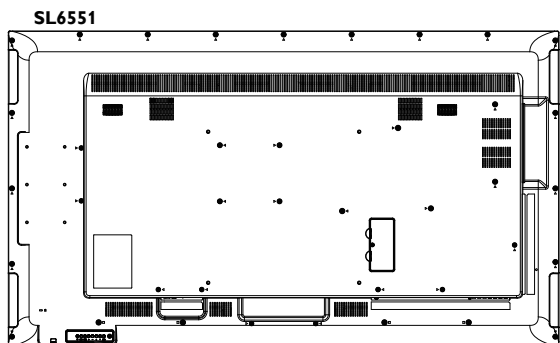
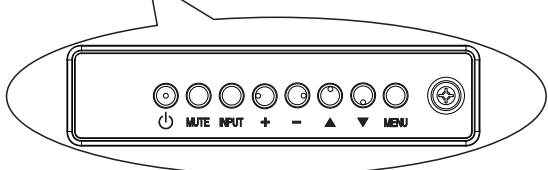
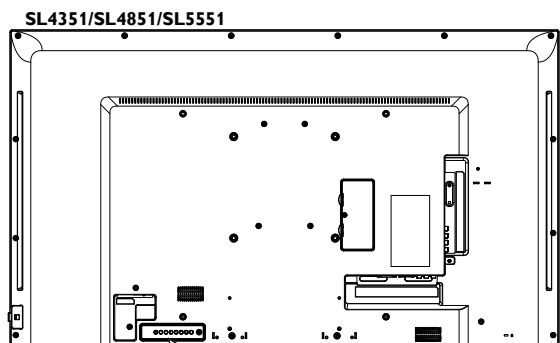
5. Change your settings

Using the remote control:



1. Press **HOME** button to display the OSD menu.
2. Press **▲**, **▼**, **←**, or **→** button to select its menu item or to adjust its value. Press **OK** button to confirm.
3. Press **BACK** button to go back to the previous menu layer.
4. Press **EXIT** button to exit the OSD menu.

Using this display's control buttons:



1. Press **MENU** button to display the OSD menu.
2. Press **▲** **▼** **+** or **-** button to select menu item or adjust its value.
3. Press **INPUT** button to confirm menu selection and enter its submenu.
4. Press **MENU** button to exit the OSD menu.

5.1. Settings

5.1.1. Picture menu

Picture	Picture Style	Color Space
Sound	Backlight	Format
General settings	Contrast	Restore Style
Network settings	Brightness	
	Hue	
	Color	
	Sharpness	
	Phase	
	Clock	
	Advanced	
	Overscan	

Picture Style

Choose a predefined picture setting.

Options: General, Vivid, Natural, Standard, Movie, Photo, and Energy Saving

Note: YUV sources only.

Backlight

Adjust the intensity of the display's backlight.

Options: 0-100.

Contrast

Adjust video contrast.

Options: 0-100

Brightness

Adjust screen brightness.

Options: 0-100

Hue

Adjust screen hue.

Options: -50 - +50

Color

Adjust the color saturation of the picture.

Options: 0-100

Sharpness

Adjusts the definition of the picture.

Options: 0-20

Note: YUV sources only.

Phase

Adjust to improve the focus, clarity and stability of the image.

Options: 0-100

Note: This item is functional for VGA input only.

Clock

Adjust the width of the image

Options: 0-100

Note: This item is functional for VGA input only.

Advanced

- **{Noise Reduction}**: Choose the amount of noise reduction for the picture.
Options: Off, Low, Medium, High
Note: YUV sources only
- **{Gamma}**: Adjust the non-linear setting for picture luminance and contrast.
Options: 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5
- **{Color Temp}**: Change the color balance.
Options: 11000K, 9300K, 6500K, 3200K, Custom
- **{Custom Color Temp}**: Customize color balance setting. Only available if **{Color Temp}** → **{Custom}** is chosen.
 - R-Gain
Options: 0 - 255
 - G-Gain
Options: 0 - 255
 - B-Gain
Options: 0 - 255
 - R-Offset
Options: 0 - 255
 - G-Offset
Options: 0 - 255
 - B-Offset
Options: 0 - 255
- **{Advanced Sharpness}**: Enable superior sharpness, especially on lines and contours in the picture.
Options: Off, On
- **{Dynamic Contrast}**: Dynamically enhance the details in the dark, medium and light areas of the picture.
Options: Off, Low, Medium, High
- **{Dynamic Backlight}**: Choose a backlight level which optimizes dynamic power consumption and picture contrast.
Options: Off, Standard, Best Power, Best Picture
- **{Color Enhancement}**: Dynamically enhance the vividness and details of colors.
Options: Off, Low, Medium, High

Overscan

Enables or disables the overscan function.

Options: Off, On

Note: YUV sources only

Color Space

Select the color space of the source signal.

Options: Auto, RGB-Video, RGB-PC, YUV

Format

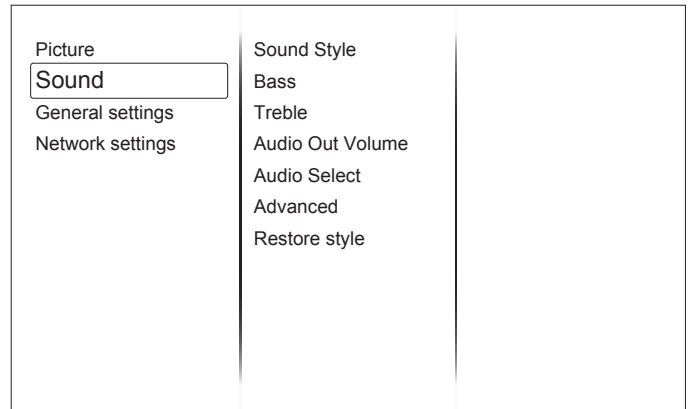
- **{Aspect Ratio}**: Change the picture format.
Options: Auto, Letterbox, Full Screen, Native, 4:3
- **{Overscan Percentage}**: Adjust the percentage of the image is shaded off.
Options: 0 - 10

- **{Picture Shift}**:
Adjust position of image.

Restore Style

Restore the picture setting to default values.

5.1.2. Sound menu



Sound Style

Access predefined sound settings.

Options: General, Original, Movie, Music, Game, News

Bass

Adjust to increase or decrease lower-pitched sounds.

Options: -8 - +8

Treble

Adjust to increase or decrease higher-pitched sounds.

Options: -8 - +8

Audio Out

Adjust audio output volume. For line out audio sources only.

Options: 0 - 60

Audio Select

Select audio source

Options: HDMI, AV, Line In

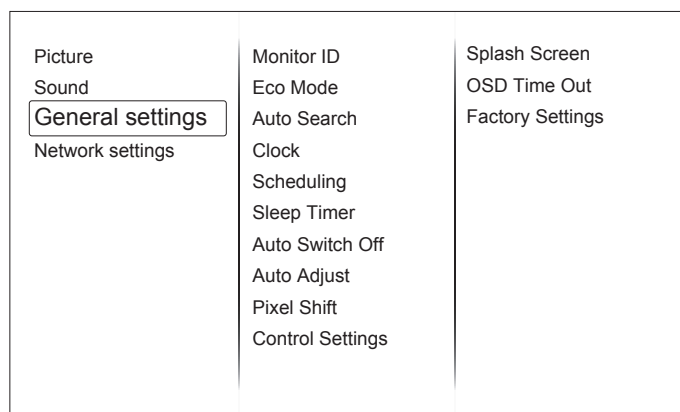
Advanced

- **{Auto Volume Leveling}**: Enable the reduction of sudden volume changes.
Options : Off, On
- **{Internal Speakers}**: Turn on or off the internal speakers.
Options : Off, On
- **{Clear Sound}**: Enhance sound quality.
Options : Off, On

Restore Style

Restore the sound setting to default values.

5.1.3. General settings menu



Monitor ID

Adjust the ID number for controlling the display via the RS232C connection. Each display must have a unique ID number when multiple sets of this display are connected. Monitor ID number range is between 1 to 255. The default setting is 1.

Eco mode

Select standby power consumption setting.

Options: Normal, Low power standby.

Note: For the lowest standby power consumption, select Low power standby. When the Eco mode is set to Low power standby, the display cannot wake from sleep. When the Eco mode is set to Normal, the display can wake from sleep. See Auto Search Setting for more information on how to wake the display.

Auto search

Automatically detects available input sources when "On". When "Off" the display will automatically detect the last input.

Options: Off, On.

Note: When set to "On", the last input will wake the display. When set to "Off", the last input will wake the display. When set to "Off", a RS-232 command can wake the display using any input. Note that Eco Mode needs to be set to "Normal" for the display to wake up.

Clock

Set the current date (DD-MM-YYYY) and time.

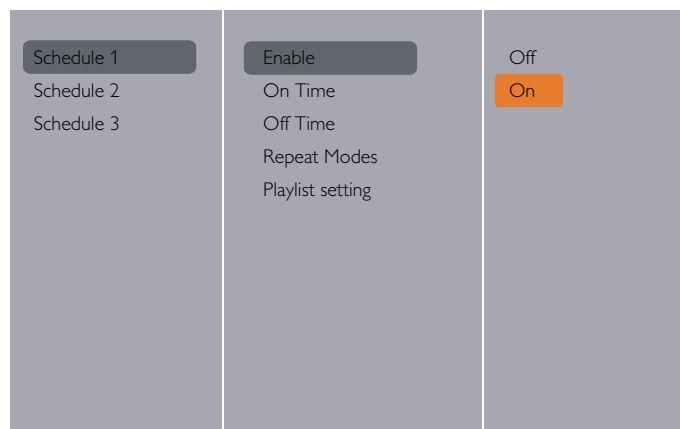
Scheduling

This function allows you to program up to 3 different scheduled time intervals for this display to activate.

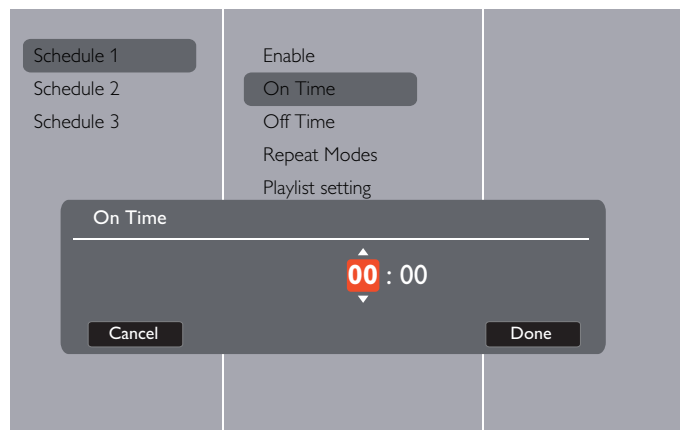
NOTES:

- Set up current date and time in the {Clock} menu before setting up a schedule.
- After changing the date and time in the {Clock} menu, the schedule may need to be re-entered.

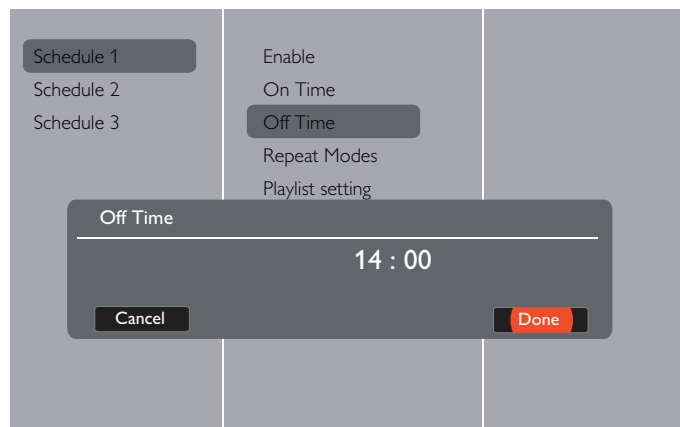
1. Up to 3 schedules can be programmed. To activate a schedule, select **Enable** and choose **On**.



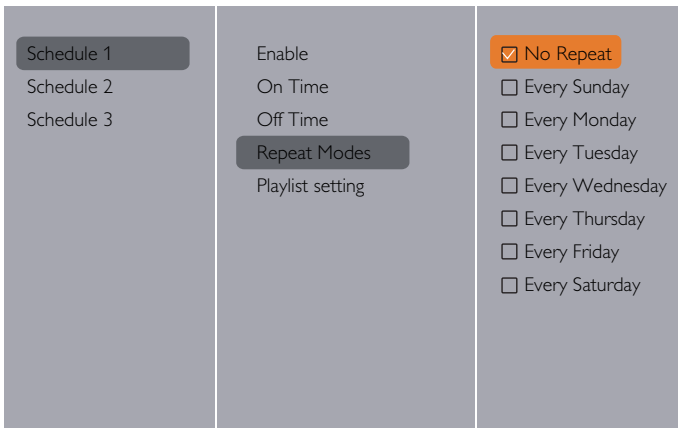
2. Set **On time**.



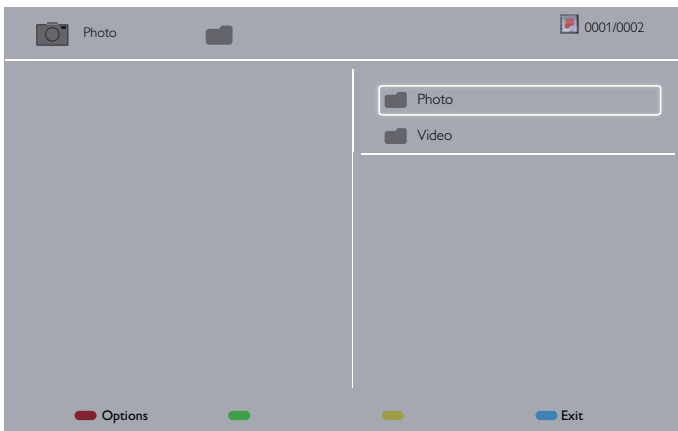
3. Set **Off Time**.



4. Go to **Repeat Modes** and choose.

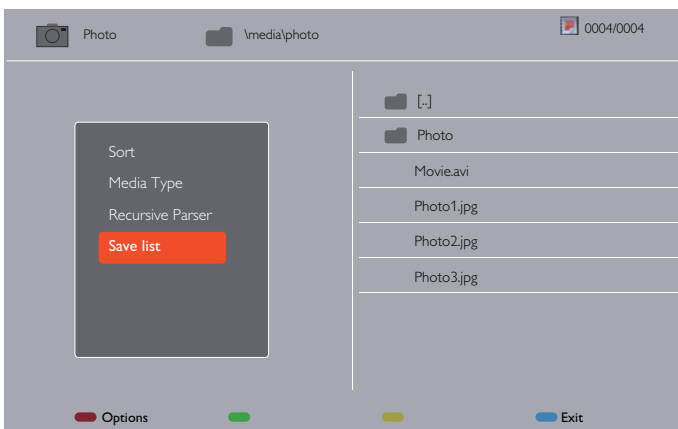


5. If {Source} → {USB} is chosen. Go to **Playlist setting**.



- Press [A] [V] buttons to choose files.
- Press [←] [→] buttons to switch Playlist and File Manager.
- Press [OK] button to set or clear the playlist.

6. To save the playlist, press [] and choose **Save list**.



NOTES:

- Each Playlist supports up to 30 files.
- Playlist will not be cleared after {Factory settings}. You have to manually remove the files or delete usb_schedulinglist.txt in the USB.

Sleep Timer

Switch off this display after a specified time.

Options: 0-240 seconds

Auto Switch Off

With no user interaction (via the OSD), the display will enter the specified ECO mode with a signal present after the set period of time. When set to off, the display will only enter the specified ECO mode when no signal is present for 10 minutes.

Options (in minutes): off, 30, 60, 120, 240.

Auto Adjust

Use this function to automatically optimize the display ofVGA input image.

NOTE: This item is functional forVGA input only.

Pixel Shift

Automatically moves the screen image every 30 minutes to protect the display from “burn-in” symptoms.

Options: Off, On

Control Settings

- {Keypad Lock}: Choose to enable or disable the keypad function on the backside of the display.
 - {Unlock}: Enable the keyboard function.
 - {Lock all}: Lock all keyboard function.
- {IR Lock}: Choose to enable or disable the button function of the remote control.
 - {Unlock}: Enable the IR Remote function.
 - {Lock}: Lock the IR Remote function.

NOTE: To disable the lock function from [Keypad Lock] or [IR lock] item, press buttons [] and 1 9 9 8 on the remote control.

Splash Screen

Enables or disables the splash screen during start up.

Options: Off, On.

OSD Time Out

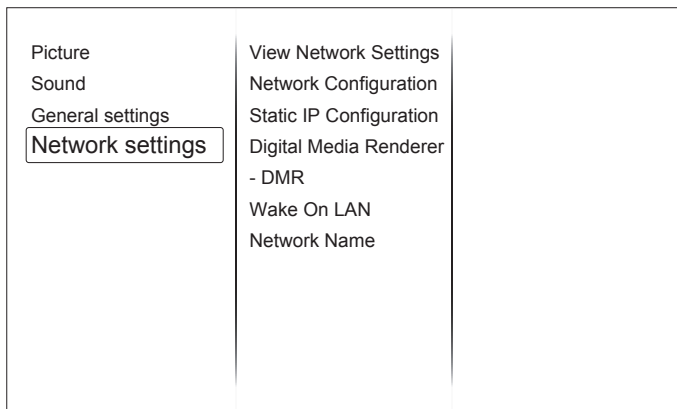
Set OSD menu display time.

Options: 10-60 sec.

Factory Settings

Reset all your customized settings to the factory defaults.

5.2. Network Settings



View Network Settings

View connected network status.

Network Configuration

Select how this display should assign addresses to the network resources.

Static IP Configuration

Assign {IP address}, {Netmask}, {Gateway}, {DNS1}, and {DNS2} for this display.

Digital Media Renderer - DMR

Receive multimedia files from smartphones and tablets connected to your network.

Options: Off, On

Wake On LAN

Wake the display through a network connection.

Options: Off, On

Network Name

Rename this display for easy identification if you have more than one display connected to your network.

6. USB device compatibility

USB Video Subtitle Formats (for language subtitles, etc.)

File Extensions	Container	Video codec	Maximum resolution	Max.Frame Rate (fps)	Max.Bit Rate (Mbps)	Audio codec
.mpg mpeg .vob	PS	MPEG-1	1920x1080	25p,30p,50i,60i	30	MPEG-1(L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC(v1&v2), DVD-PCM,AC3
		MPEG-2	1920x1080	25p,30p,50i,60i	30	
		MPEG-4 ASP	1920x1080	25p,30p,50i,60i	30	
		H.264	1920x1080	25p,30p,50p,60p,60i	30	
.ts	TS	MPEG-2	1920x1080	25p,30p,50i,60i	30	MPEG-1(L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), AC3,E-AC3, Dolby Pulse
		MPEG-4 ASP	1920x1080	25p,30p,50i,60i	30	
		H.264	1920x1080	25p,30p,50p,60p,60i	30	
		MVC	1920x1080i@field rate=50, 60Hz 1920x1080p@frame rate=24, 25,30Hz 1280x720p@frame rate=50, 60Hz	-	30	
.ts .m2ts .mts .mt2	MaTS TTS	MPEG-2	1920x1080	25p,30p,50i,60i	30	MPEG-1(L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), AC3,E-AC3, Dolby Pulse
		MPEG-4 ASP	1920x1080	25p,30p,50i,60i	30	
		H.264	1920x1080	25p,30p,50p,60p,60i	30	
		MVC	1920x1080i @ field rate=50, 60Hz 1920x1080p @ frame rate=24, 25,30Hz 1280x720p @ frame rate=50, 60Hz	-	30	
.ts .m2ts .mts	AVCHD	MPEG-2	1920x1080	25p,30p,50i,60i	30	MPEG-1(L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), AC3,E-AC3, Dolby Pulse
		MPEG-4 ASP	1920x1080	25p,30p,50i,60i	30	
		H.264	1920x1080	25p,30p,50p,60p,60i	30	
.ts .m2ts .mts	AVCHD	MVC	1920x1080i@field rate=50, 60Hz 1920x1080p@frame rate=24, 25,30Hz 1280x720p @ frame rate=50, 60Hz	-	30	MPEG-1(L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), AC3,E-AC3, Dolby Pulse
.m4v	M4V	H.264	1920x1080	25p,30p,50p,60p,60i	30	AAC
.ism/Manifest .mpd	frag MP4	H.264	1920x1080	25p,30p,50p,60p,60i	30	AAC/HE-AAC(v1&v2), AC3,E-AC3,WMA, WMA-PRO
		MVC	1920x1080i@field rate=50, 60Hz 1920x1080p@frame rate=24, 25,30Hz 1280x720p @ frame rate=50, 60Hz	-	30	
.mp4	MP4	MPEG-4 ASP	1920x1080	25p,30p,50i,60i	30	AAC/HE-AAC(v1&v2), AC3,E-AC3,WMA, WMA-PRO
		H.264	1920x1080		30	
		MVC	1920x1080i@field rate=50, 60Hz 1920x1080p@frame rate=24, 25,30Hz 1280x720p @ frame rate=50, 60Hz	-	30	
		WMV9/VC1	1920x1080	30p,60i	30	
.mkv .mk3d	MKV	MPEG-4 ASP	1920x1080	25p,30p,50i,60i	30	MPEG-1(L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), AC3,E-AC3,WMA, WMA-PRO
		H.264	1920x1080		30	

USB Multimedia Formats

File Extensions	Container	Video codec	Maximum resolution	Frequency (kHz)	Max.Bit Rate (Mbps)	Audio codec
.mp3	MP3	-	-	48	384	MPEG-1,2,2.5 L3
.wma .asf	WMA (V2 up to V9.2)	-	-	48	192	WMA
.wma	WMA Pro	-	-	96	768	WMA,WMA Pro
.wav(PC)	LPCM	-	-	192	768	LPCM
.aif(mac) .aiff(mac)	LPCM	-	-	192	768	LPCM
.aac .mp4 .m4a	AAC	-	-	48	1024	AAC,HE-AAC(v1&v2)
.pls .m3u	Playlists	-	-	-	-	-
.m4a	M4A	-	-	48	1024	AAC,HE-AAC(v1&v2)

USB Photo Formats

File Extensions	Container	Video codec	Maximum Resolution	Frequency	Max.Bit Rate	Audio codec
jpg/jpeg	JPEG		baseline: color mode = 444, size <=32768x16128 color mode = 422v, size <= 16384x16128 color mode = other; not support	-	-	-
bmp	BMP		4096x3072_4bit, 2730x2500_8bit, 2048x1536_16bit, 1500x1200_32bit	-	-	-
png	PNG		4096x3072_4bit, 2730x2500_8bit, 2048x1536_16bit, 1500x1200_32bit	-	-	-
gif	GIF		4096x3072_4bit, 2730x2500_8bit, 2048x1536_16bit, 1500x1200_32bit	-	-	-

NOTES:

- Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table above.
- Video content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy video during playback.

7. Input Mode

VGA Resolution:

Standard Resolution	Active Resolution		Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode
	H Pixels	V Lines				
VGA	640	480	60 Hz	25.175 MHz	4:3	Video Graphic Array
			72 Hz	31.5 MHz		
			75 Hz	31.5 MHz		
WVGA	720	400	70 Hz	33.75 MHz	16:9	Wide Video Graphic Array
SVGA	800	600	60 Hz	40 MHz	4:3	Super VGA
			75 Hz	49.5 MHz		
XGA	1024	768	60 Hz	65 MHz	4:3	Extended Graphic Array
			75 Hz	78.75 MHz		
WXGA	1280	768	60 Hz	79.5 MHz	5:3	Wide XGA
WXGA	1280	800	60 Hz	79.5 MHz	16:10	Wide XGA
SXGA	1280	960	60 Hz	108 MHz	4:3	Super XGA
SXGA	1280	1024	60 Hz	108 MHz	5:4	Super XGA
WXGA	1360	768	60 Hz	85.5 MHz	16:9	Wide XGA
WXGA	1366	768	60 Hz	85.5 MHz	16:9	Wide XGA
UXGA	1600	1200	60 Hz	162 MHz	4:3	Ultra XGA
HD1080	1920	1080	60 Hz	148.5 MHz	16:9	HD1080

SDTV Resolution:

Standard Resolution	Active Resolution		Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode
	H Pixels	V Lines				
480i	720	480	29.97 Hz	13.5 MHz	4:3	Modified NTSC Standard
480p			59.94 Hz	27 MHz		
576i	720	576	25 Hz	13.5 MHz	4:3	Modified PAL Standard
576p			50 Hz	27 MHz		

HDTV Resolution:

Standard Resolution	Active Resolution		Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode
	H Pixels	V Lines				
720p	1280	720	50 Hz	74.25 MHz	16:9	Normally DVB Mode
			60 Hz			
1080i	1920	1080	25 Hz	74.25 MHz	16:9	Normally ATSC Mode
			30 Hz			
1080p	1920	1080	50 Hz	148.5 MHz	16:9	Normally ATSC Mode
			60 Hz			

- The PC text quality is optimum in HD 1080 mode (1920 × 1080, 60Hz).
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows).
- Check your PC instruction book for information about connecting your PC to a display.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5KHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the [INPUT] button to enter the video mode. Also, make sure that the PC is connected.
- When horizontal synchronous signals seem irregular in RGB mode, check PC power saving mode or cable connections.
- The display settings table complies to the IBM/VESA standards, and based on the analog input.
- The DVI support mode is regarded as same to the PC support mode.
- The best timing for the vertical frequency to each mode is 60Hz.

8. Cleaning and Troubleshooting

8.1. Cleaning

Caution When Using the Display

- Do not bring your hands, face or objects close to the ventilation holes of the display. The top of the display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries may occur if any body parts are brought too close. Placing any object near the top of the display could also result in heat related damage to the object as well as the display itself.
- Be sure to disconnect all cables before moving the display. Moving the display with its cables attached may damage the cables and thus cause fire or electric shock.
- Disconnect the power plug from the wall outlet as a safety precaution before carrying out any type of cleaning or maintenance procedure.

Front Panel Cleaning Instructions

- The front of the display has been specially treated. Wipe the surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface becomes dirty, soak a soft, lint-free cloth in a mild detergent solution. Wring the cloth to remove excess liquid. Wipe the surface of the display to remove dirt. Then use a dry cloth of the same type to dry.
- Do not scratch or hit the surface of the panel with fingers or hard objects of any kind.
- Do not use volatile substances such as insect sprays, solvents and thinners.

Cabinet Cleaning Instructions

- If the cabinet becomes dirty, wipe the cabinet with a soft, dry cloth.
- If the cabinet is extremely dirty, soak a lint-free cloth in a mild detergent solution. Wring the cloth to remove as much moisture as possible. Wipe the cabinet. Use another dry cloth to wipe over until the surface is dry.
- Do not allow any water or detergent to come into contact with the surface of the display. If water or moisture gets inside the unit, operating problems, electrical and shock hazards may result.
- Do not scratch or hit the cabinet with fingers or hard objects of any kind.
- Do not use volatile substances such as insect sprays, solvents and thinners on the cabinet.
- Do not place anything made from rubber or PVC near the cabinet for any extended periods of time.

8.2. Troubleshooting

Symptom	Possible Cause	Remedy
No picture is displayed	<ol style="list-style-type: none"> 1. The power cord is disconnected. 2. The main power switch on the back of the display is not switched on. 3. The selected input has no connection. 4. The display is in standby mode. 	<ol style="list-style-type: none"> 1. Plug in the power cord. 2. Make sure the power switch is switched on. 3. Connect a signal connection to the display.
Interference displayed on the display or audible noise is heard	Caused by surrounding electrical appliances or fluorescent lights.	Move the display to another location to see if the interference is reduced.
Color is abnormal	The signal cable is not connected properly.	Make sure that the signal cable is attached firmly to the back of the display.
Picture is distorted with abnormal patterns	<ol style="list-style-type: none"> 1. The signal cable is not connected properly. 2. The input signal is beyond the capabilities of the display. 	<ol style="list-style-type: none"> 1. Make sure that the signal cable is attached firmly. 2. Check the video signal source to see if it is beyond the range of the display. Please verify its specifications with this display's specification section.
Display image doesn't fill up the full size of the screen	<ol style="list-style-type: none"> 1. The zoom mode is not set correctly. 2. Scan Mode may be set incorrectly to underscan. 3. If the image exceeds the screen size, Scan Mode may need to be set to Underscan. 	Use the Zoom mode or Custom zoom function in the Screen menu to fine tune display geometry and time frequency parameter.
Can hear sound, but no picture	Improperly connected source signal cable.	Make sure that both video inputs and sound inputs are correctly connected.
Can see picture but no sound is heard	<ol style="list-style-type: none"> 1. Improperly connected source signal cable. 2. Volume is turned all the way down. 3. {Mute} is turned on. 4. No external speaker connected. 	<ol style="list-style-type: none"> 1. Make sure that both video inputs and sound inputs are correctly connected. 2. Press [+] or [-] button to hear sound. 3. Switch MUTE off by using the [MUTE] button. 4. Connect external speakers and adjust the volume to a suitable level.
Some picture elements do not light up	Some pixels of the display may not turn on.	This display is manufactured using an extremely high level of precision technology; however, sometimes some pixels of the display may not display. This is not a malfunction.
After-Images can still be seen on the display after the display is powered off. (Examples of still pictures include logos, video games, computer images, and images displayed in 4:3 normal mode)	A still picture is displayed for an over extended period of time	Do not allow a still image to be displayed for an extended period of time as this can cause a permanent after-image to remain on the display.

9. Technical Specifications

9.1. Planar Simplicity SL4351

Display:

Item	Specifications
Screen Size (Active Area)	940.9(H) x 529.25(V)
Aspect Ratio	16:9
Number of pixels	1920 (H) x 1080 (V)
Pixel pitch	0.49(H) x 0.49(V) [mm]
Displayable colors	16.7M
Brightness (typical)	350 cd/m ²
Contrast ratio (typical)	3000:1
Viewing angle	178 degrees

In/Out Terminals:

Item	Specifications
Speaker Output	Internal Speakers 10W (L) + 10W (R) [RMS]/16Ω 1 Way 1 Speaker System 82 dB/W/M/160 Hz ~ 13 KHz
Audio Output	RCA Jack x 2 0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	RCA Jack x 2 3.5mm phone jack x 1 0.5V [rms] (Normal) / 2 Channel (L+R)
RS232C	2.5mm Phone jack x 2 RS232C in/RS232C out
RJ-45	RJ-45 Jack x 1 (8 pin) 10/100 LAN Port
HDMI Input	HDMI Jack x 1 (Type A) (19 pin) Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 1920 x 1080/60 Hz (WUXGA) Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
DVI-D Input	DVI-D jack Digital RGB: TMDS (Video)
VGA Input	D-Sub Jack x 1 (15 pin) Analog RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: 1V [p-p] (75Ω) MAX: 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
Component Input	RCA Jack x 3 Y: 1V [p-p] (75Ω), Pb: 0.7V [p-p] (75Ω), Pr: 0.7V [p-p] (75Ω) MAX: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
Video Input	RCA x 1 (Share with Component_Y) Composite 1V [p-p] (75Ω)

General:

Item	Specifications
Power Supply	AC 100 - 240V, 50 - 60Hz
Power Consumption (Max)	132 W
Power Consumption (typ.)	99 W
Power Consumption (Standby & Off)	<0.5 W (RS232 in active)
Dimensions (With Stand) [W x H x D]	968.2(W)x599.1(H)x329.6(D)
Dimensions (Without Stand) [W x H x D]	968.2(W)x559.4(H)x59.9(D@Rear Cover)/60.9(D@Wall Mount)
Weight (With Stand)	10.57 Kg
Weight (Without Stand)	8.7 Kg
Gross Weight (Without Stand)	12.2 Kg

Environmental Condition:

Item		Specifications
Temperature	Operational	0 ~ 40°C
	Storage	-20 ~ 60°C
Humidity	Operational	20 ~ 80% RH (No condensation)
	Storage	5 ~ 95% RH (No condensation)
Altitude	Operational	0 ~ 3,000 m
	Storage / Shipment	0 ~ 9,000 m

Internal Speaker:

Item	Specifications
Type	1 Way 1 Speaker
Input	10 W (RMS)
Impedance	16Ω
Output Sound Pressure	82 dB/W/M
Frequency Response	160 Hz ~ 13 KHz

9.2. Planar Simplicity SL4851

Display:

Item	Specifications
Screen Size (Active Area)	1054.08(H) × 592.92(V)
Aspect Ratio	16:9
Number of pixels	1920 (H) × 1080 (V)
Pixel pitch	0.549(H) × 0.549(V) [mm]
Displayable colors	1073.7M colors
Brightness (typical)	350 cd/m ²
Contrast ratio (typical)	4000:1 (typ.)
Viewing angle	178 degrees

In/Out Terminals:

Item	Specifications
Speaker Output	Internal Speakers 10W (L) + 10W (R) [RMS]/16Ω 1 Way 1 Speaker System 82 dB/W/M/160 Hz ~ 13 KHz
Audio Output	RCA Jack × 2 0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	RCA Jack × 2 3.5mm phone jack × 1 0.5V [rms] (Normal) / 2 Channel (L+R)
RS232C	2.5mm Phone jack × 2 RS232C in/RS232C out
RJ-45	RJ-45 Jack × 1 (8 pin) 10/100 LAN Port
HDMI Input	HDMI Jack × 1 (Type A) (19 pin) Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 1920 × 1080/60 Hz (WUXGA) Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
DVI-D Input	DVI-D jack Digital RGB: TMDS (Video)
VGA Input	D-Sub Jack × 1 (15 pin) Analog RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: 1V [p-p] (75Ω) MAX: 720p, 1080p, 1920 × 1080/60 Hz (WUXGA)
Component Input	RCA Jack × 3 Y: 1V [p-p] (75Ω), Pb: 0.7V [p-p] (75Ω), Pr: 0.7V [p-p] (75Ω) MAX: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
Video Input	RCA × 1 (Share with Component_Y) Composite 1V [p-p] (75Ω)

General:

Item	Specifications
Power Supply	AC 100 - 240V, 50 - 60Hz
Power Consumption (Max)	149W
Power Consumption (typ.)	115W
Power Consumption (Standby & Off)	<0.5 W (RS232 in active)
Dimensions (With Stand) [W × H × D]	1081.8 × 663.1 × 329.6 mm
Dimensions (Without Stand) [W × H × D]	1081.8 × 623.4 × 59.9 (Rear Cover) / 61.1 (Wall Mount)
Weight (With Stand)	13.39 Kg
Weight (Without Stand)	11.52 Kg
Gross Weight (Without Stand)	16.4 Kg

Environmental Condition:

Item		Specifications
Temperature	Operational	0 ~ 40°C
	Storage	-20 ~ 60°C
Humidity	Operational	20 ~ 80% RH (No condensation)
	Storage	5 ~ 95% RH (No condensation)
Altitude	Operational	0 ~ 3,000 m
	Storage / Shipment	0 ~ 9,000 m

Internal Speaker:

Item	Specifications
Type	1 Way 1 Speaker
Input	10 W (RMS)
Impedance	16Ω
Output Sound Pressure	82 dB/W/M
Frequency Response	160 Hz ~ 13 KHz

9.3. Planar Simplicity SL5551

Display:

Item	Specifications
Screen Size (Active Area)	1209.6(H) × 680.4(V)
Aspect Ratio	16:9
Number of pixels	1920 (H) × 1080 (V)
Pixel pitch	0.63(H) × 0.63(V) [mm]
Displayable colors	16.7M
Brightness (typical)	350 cd/m ²
Contrast ratio (typical)	1200:1
Viewing angle	178 degrees

In/Out Terminals:

Item	Specifications
Speaker Output	Internal Speakers 10W (L) + 10W (R) [RMS]/16Ω 1 Way 1 Speaker System 82 dB/W/M/160 Hz ~ 13 KHz
Audio Output	RCA Jack × 2 0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	RCA Jack × 2 3.5mm phone jack × 1 0.5V [rms] (Normal) / 2 Channel (L+R)
RS232C	2.5mm Phone jack × 2 RS232C in/RS232C out
RJ-45	RJ-45 Jack × 1 (8 pin) 10/100 LAN Port
HDMI Input	HDMI Jack × 1 (Type A) (19 pin) Digital RGB: TMDS (Video + Audio) MAX: Video - 720p, 1080p, 1920 × 1080/60 Hz (WUXGA) Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
DVI-D Input	DVI-D jack Digital RGB: TMDS (Video)
VGA Input	D-Sub Jack × 1 (15 pin) Analog RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: 1V [p-p] (75Ω) MAX: 720p, 1080p, 1920 × 1080/60 Hz (WUXGA)
Component Input	RCA Jack × 3 Y: 1V [p-p] (75Ω), Pb: 0.7V [p-p] (75Ω), Pr: 0.7V [p-p] (75Ω) MAX: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
Video Input	RCA × 1 (Share with Component_Y) Composite 1V [p-p] (75Ω)

General:

Item	Specifications
Power Supply	AC 100 - 240V, 50 - 60Hz
Power Consumption (Max)	179 W
Power Consumption (typ.)	141 W
Power Consumption (Standby & Off)	<0.5 W (RS232 in active)
Dimensions (With Stand) [W × H × D]	1238.6(W)×751.7(H)×329.6(D)
Dimensions (Without Stand) [W × H × D]	1238.6(W)×711.1(H)×59.9(Rear Cover)/61.7(Wall Mount)
Weight (With Stand)	17.87 Kg
Weight (Without Stand)	16.0 Kg
Gross Weight (Without Stand)	23.0 Kg

Environmental Condition:

Item		Specifications
Temperature	Operational	0 ~ 40°C
	Storage	-20 ~ 60°C
Humidity	Operational	20 ~ 80% RH (No condensation)
	Storage	5 ~ 95% RH (No condensation)
Altitude	Operational	0 ~ 3,000 m
	Storage / Shipment	0 ~ 9,000 m

Internal Speaker:

Item	Specifications
Type	1 Way 1 Speaker
Input	10 W (RMS)
Impedance	16Ω
Output Sound Pressure	82 dB/W/M
Frequency Response	160 Hz ~ 13 KHz

9.4. Planar Simplicity SL6551

Display:

Item	Specifications
Screen Size (Active Area)	1428.48 (H)× 803.52 (V) [mm]
Aspect Ratio	16:9
Number of pixels	1920 (H) × 1080 (V)
Pixel pitch	0.744 (H) × 0.744 (V) [mm]
Displayable colors	16.7M
Brightness (typical)	350 cd/m ²
Contrast ratio (typical)	4000:1
Viewing angle	178 degrees

In/Out Terminals:

Item	Specifications
Speaker Output	Internal Speakers External Speakers
	10W (L) + 10W (R) [RMS]/8Ω 1 Way 1 Speaker System 82 dB/W/M/160 Hz ~ 13 KHz
Audio Output	3.5mm phone jack × 1
	0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	RCA Jack × 2 3.5mm phone jack × 1
	0.5V [rms] (Normal) / 2 Channel (L+R)
RS232C	2.5mm Phone jack × 2
	RS232C in/RS232C out
RJ-45	RJ-45 Jack × 1 (8 pin)
	10/100 LAN Port
HDMI Input	HDMI Jack × 2 (Type A) (18 pin)
	Digital RGB:TMDS (Video + Audio) MAX: Video - 720p, 1080p, 1920 × 1080/60 Hz (WUXGA) Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only
DVI-D Input	DVI-D jack
	Digital RGB:TMDS (Video)
VGA Input	D-Sub Jack × 1 (15 pin)
	Analog RGB: 0.7V [p-p] (75Ω), H/CS/V:TTL (2.2kΩ), SOG: 1V [p-p] (75Ω) MAX: 720p, 1080p, 1920 × 1080/60 Hz (WUXGA)
DVI-I (DVI-D & VGA) Output	DVI-I Jack × 1 (29 pin)
	Digital RGB:TMDS (Video) Analog RGB: 0.7V [p-p] (75Ω), H/CS/V:TTL (2.2kΩ), SOG: 1V [p-p] (75Ω) MAX: 720p, 1080p, 1920 × 1080/60 Hz (WUXGA)
Component Input	BNC Jack × 3
	Y: 1V [p-p] (75Ω), Pb: 0.7V [p-p] (75Ω), Pr: 0.7V [p-p] (75Ω) MAX: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
Video Input	BNC × 1 (Share with Component_Y)
	Composite 1V [p-p] (75Ω)
Displayport in/out	Displayport Jack × 2 (20 pin)
	Digital RGB:TMDS (Video + Audio) MAX: Video - 720p, 1080p, 1920 × 1080/60 Hz (WUXGA) Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only

General:

Item	Specifications
Power Input	100 - 240V~, 50 - 60Hz
Power Consumption (Max)	313 W
Power Consumption (typ.)	176 W
Power Consumption (Standby & Off)	<0.5 W (RS232 in active)
Dimensions (Without Stand) [W x H x D]	1458.7 x 834.7 x 81.6 mm
Weight (Without Stand)	24.8 Kg
Gross Weight (Without Stand)	39.3 Kg

Environmental Condition:

Item	Specifications	
Temperature	Operational	0 ~ 40°C
	Storage	-20 ~ 60°C
Humidity	Operational	20 ~ 80% RH (No condensation)
	Storage	5 ~ 95% RH (No condensation)
Altitude	Operational	0 ~ 3,000 m
	Storage / Shipment	0 ~ 9,000 m

Internal Speaker:

Item	Specifications
Type	1 Way 1 Speaker
Input	10 W (RMS)
Impedance	8Ω
Output Sound Pressure	82 dB/W/M
Frequency Response	160 Hz ~ 13 KHz

Planar, a Leyard company

Customer Service

24x7 Online Technical Support: <http://www.planar.com/support>

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