BDL6531E



www.philips.com/welcome

EN User manual

Cleaning and troubleshooting



SAFETY AND TROUBLESHOOTING INFORMATION

Safety precautions and maintenance



WARNING: Use of controls, adjustments or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards and/or mechanical hazards.

Read and follow these instructions when connecting and using your display:

Operation:

- Keep the display out of direct sunlight and away from stoves or any other heat sources.
- Remove any object that could fall into the ventilation holes or prevent proper cooling of the display's electronics.
- Do not block the ventilation holes on the cabinet.
- When positioning the display, make sure the power plug and outlet are easily accessible.
- When turning off the display by detaching the power cord, wait for 6 seconds before re-attaching the power cord for normal operation.
- Ensure the use of an approved power cord provided by Philips at all times. If your power cord is missing, please contact your local service center.
- Do not subject the display to severe vibration or high impact conditions during operation.
- Do not knock or drop the display during operation or transportation.

Maintenance:

- To protect your display from possible damage, do not put excessive pressure on the LCD panel. When moving your display, grasp the frame to lift; do not lift the display by placing your hand or fingers on the LCD panel.
- Unplug the display if you are not going to use your display 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 organic solvent, such as alcohol, or ammonia-based liquids to clean your display.
- To avoid the risk of shock or permanent damage to the set, do not expose the display to dust, rain, water or an excessively moist environment.
- If your display becomes wet, wipe it with a dry cloth as soon as possible.
- If a foreign substance or water gets in your display, turn the power off immediately and disconnect the power cord. Then remove the foreign substance or water, and send the display to the maintenance center.
- Do not store or use the display in locations exposed to heat, direct sunlight or extreme cold.
- In order to maintain the best performance of your display and ensure a longer lifetime, please use the display in a location that falls within the following temperature and humidity ranges.
 - Temperature: 0 ~ 40°C 32-104°F
 - Humidity: 20-80% RH

IMPORTANT: Always activate a moving screen saver program when you leave your display unattended. Always activate a periodic screen refresh application if your display will show unchanging static content. Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging" or "ghost imaging", on your screen. This is a well-known phenomenon in LCD panel technology. In most cases, the "burned in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.

WARNING: Severe "burn-in" or "after-image" or "ghost image" symptoms will not disappear and cannot be repaired. This is also not covered under the terms of your warranty.

Service:

- The casing cover should be opened only by qualified service personnel.
- If there is any need for repair or integration, please contact your local service center.
- Do not leave your display under direct sunlight.



Consult a service technician if the display does not operate normally, or you are not sure what procedure to take when the operating instructions given in this manual have been followed.

Read and follow these instructions when connecting and using your LCD 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 after having 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 power cable or DC power cord, wait for 6 seconds before re-attaching the power cable or DC power cord 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 "afterimage" or "ghost image" on the front of the screen. This is a well-known phenomenon that is caused by the shortcomings inherent in the LCD technology. In most cases the afterimage will disappear gradually over a period of time after the power has been switched off. Be aware that the after-image symptoms cannot be repaired and are not covered under warranty.

REGULATORY INFORMATION

CE DECLARATION OF CONFORMITY

MMD declares under our responsibility that the product is in conformity with the following standards

- EN60950-1:2006+A11:2009 (Safety requirement of Information Technology Equipment)
- EN55022:2006+A1:2007 (Radio Disturbance requirement of Information Technology Equipment)
- EN55024:1998+A1:2001+A2:2003 (Immunity requirement of Information Technology Equipment)
- EN61000-3-2:2006 (Limits for Harmonic Current Emission)
- EN61000-3-3:1995+A1:2001+A2:2005 (Limitation of Voltage Fluctuation and Flicker)
- EN55013:2001+A1:2003 +A2:2006 (Limits and Methods of Measurement of Radio Disturbance Characteristics of Broadcast Receivers and Associated Equipment)
- EN55020:2007 (Electromagnetic Immunity of Broadcast Receivers and Associated Equipment)

following provisions of directives applicable

- 2006/95/EC (Low Voltage Directive)
- 2004/108/EC (EMC Directive)
- 93/68/EEC (Amendment of EMC and Low Voltage Directive) and is produced by a manufacturing organization on ISO9000 level.

FEDERAL COMMUNICATIONS COMMISSION (FCC) NOTICE (U.S. Only)



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy

and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Changes or modifications not expressly approved by the party responsible for compliance could void the users' authority to operate the equipment.

Use only RF shielded cable that was supplied with the display when connecting this display to a computer device. To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

FCC DECLARATION OF CONFORMITY

Trade Name: Philips



Declaration of Conformity for Products Marked with FCC Logo, United States Only: This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

POLISH CENTER FOR TESTING AND CERTIFICATION NOTICE

The equipment should draw power from a socket with an attached protection circuit (a three-prong socket). All equipment that works together (computer, display, printer and so on) should have the same power supply source.

The phasing conductor of the room's electrical installation should have a reserve short-circuit protection device in the form of a fuse with a nominal value no larger than 16 Amperes (A).

To completely switch off the equipment, the power supply cable must be removed from the power supply socket, which should be located near the equipment and easily accessible.

A protection mark "B" confirms that the equipment is in compliance with the protection usage requirements of standards PN-93/T-42107 and PN-89/E-06251.

Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kołkiem). Współpracujące ze sobą urządzenia (komputer, monitor, drukarka) powinny być zasilane z tego samego źródła.

Instalacja elektryczna pomieszczenia powinna zawierać w przewodzie fazowym rezerwową ochronę przed zwarciami, w postaci bezpiecznika o wartości znamionowej nie większej niż 16A (amperów).

W celu całkowitego wyłączenia urządzenia z sieci zasilania, należy wyjąć wtyczkę kabla zasilającego z gniazdka, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne.

Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkowania zawartymi w PN-93/T-42107 i PN-89/E-06251.

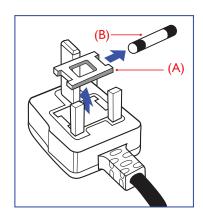
Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłóceniowego źródła zasilania.
- Należy upewnić się, aby nic nie leżało na kablach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.
- Nie należy rozlewać napojów ani innych płynów na system komputerowy.
- Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych.
- System komputerowy powinien znajdować się z dala od grzejników i źródeł ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia lużnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

ELECTRIC, MAGNETIC AND ELECTRONMAGNETIC FIELDS ("EMF")

- I. MMD manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.
- One of MMD's leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of manufacturing the products.
- 3. MMD is committed to developing, producing and marketing products that cause no adverse health effects.
- 4. MMD confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
- 5. MMD plays an active role in the development of international EMF and safety standards, enabling MMD to anticipate further developments in standardization for early integration in its products.

INFORMATION FOR UK ONLY



WARNING - THIS APPLIANCE MUST BE EARTHED.

Important:

This apparatus is supplied with an approved moulded I3A plug. To change a fuse in this type of plug proceed as follows:

- I. Remove fuse cover and fuse.
- 2. Fit new fuse which should be a BS 1362 5A,A.S.T.A. or BSI approved type.
- 3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate 3-pin plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

Note: Any severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.



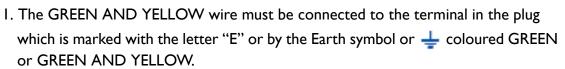
How to connect a plug

The wires in the mains lead are coloured in accordance with the following code:

BLUE - "NEUTRAL" ("N")

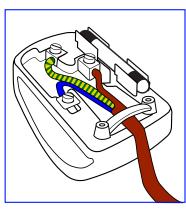
BROWN - "LIVE" ("L")

GREEN & YELLOW - "EARTH" ('E")



- 2. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
- The BROWN wire must be connected to the terminal which marked with the letter "L" or coloured RED.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the three wires.



中国电子信息产品污染控制表示要求 (中国 RoHS 法规标示要求) 产品中有毒有害物质或元素的名称及含量

	有毒有害物质或元素							
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr 6 ⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)		
外壳	O	0	0	Ò	0	0		
液晶面板	X	Х	0	0	0	0		
电路板组件	Х	0	0	0	0	0		
附件 (遥控器,电源线,连接线)	Х	0	0	0	0	0		
遥控器电池	Х	0	0	0	0	0		

- O:表示该有毒有害物质在该部件所有均质材料中的含量均在 SI/T11363-2006 标准规定的限量要求以下。
- X:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SI/TI 1363-2006 标准规定的限量要求。



环保使用期限

此标识指期限(十年),电子信息产品中含有的有毒有害物质或元素在正常使用的条件下不会发生外泄或突变,电子信息产品用户使用该电子信息产品不会对环境造成严重污染或对其人身、财产造成严重损害的期限。

《废弃电器电子产品回收处理管理条例》提示性说明

为了更好地关爱及保护地球,当用户不再需要此产品或产品寿命终止时,请遵守国家废弃电器电子产品回收处理相关法律法规,将其交给当地具有国家认可的回收处理资质的厂商进行回收处理。

NORTH EUROPE (NORDIC COUNTRIES) INFORMATION

Placering/Ventilation

VARNING:

FÖRSÄKRA DIG OM ATT HUVUDBRYTARE OCH UTTAG ÄR LÄTÅTKOMLIGA, NÄR DU STÄLLER DIN UTRUSTNING PÅPLATS.

Placering/Ventilation

ADVARSEL:

SØRG VED PLACERINGEN FOR, AT NETLEDNINGENS STIK OG STIKKONTAKT ER NEMT TILGÆNGELIGE.

Paikka/Ilmankierto

VAROITUS:

SIJOITA LAITE SITEN, ETTÄ VERKKOJOHTO VOIDAAN TARVITTAESSA HELPOSTI IRROTTAA PISTORASIASTA.

Plassering/Ventilasjon

ADVARSEL:

NÅR DETTE UTSTYRET PLASSERES, MÅ DU PASSE PÅ AT KONTAKTENE FOR STØMTILFØRSEL ER LETTE Å NÅ.

END-OF-LIFE DISPOSAL

Your new Display contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old display from your local Philips dealer.

(For customers in Canada and U.S.A.)

This product may contain lead and/or mercury. Dispose of in accordance to local state and federal regulations. For additional information on recycling contact www.eia.org (Consumer Education Initiative)

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT-WEEE

Attention users in European Union: private households



This marking on the product or on its packaging illustrates, under European Directive 2002/96/EG governing used electrical and electronic appliances, that this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such electrical and electronic waste, contact your local government office or the waste disposal organization that serves your household area.

Attention users in United States:

Like all LCD products, this set contains a lamp with Mercury. Please dispose of according to all Local, State and Federal Laws. For the disposal or recycling information, contact: www.mygreenelectronics.com or www.eiae.org.



END OF LIFE DIRECTIVES - RECYCLING

Your new Display contains several materials that can be recycled for new uses.

Like all LCD products, this set contains a lamp with Mercury, please dispose of according to all local State and Federal laws.

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Specifications are subject to change without notice.

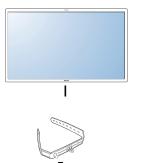
UNPACKING AND INSTALLATION

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.
- The protective glass and the glass substrate are installed on the front of the product. Since glass can be both broken and scratched easily, the product should be handled with care. Never place the product with the glass faced down unless with proper protection and padding.

PACKAGE CONTENTS

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











4. Quick Start Guide 5. Cable retainer (x 2)

Remote control with batteries 3. CD-ROM (EDFU and SICP)

6. Power cords

I. LCD display

7. VGA cable

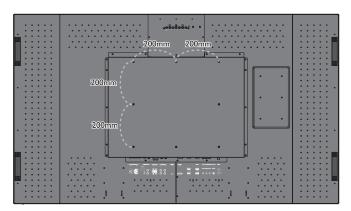
- For regions not covered by our standard power plugs, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country.
- The package box and material can be saved for any event where the display needs to be shipped to another location.
- External speakers and table stands are offered as optional extras, and are not included with your display.

INSTALLATION NOTES

- Due to the high power consumption, always use the plug exclusively designed for this product. If an extended line is required, please consult your service agent.
- The product should be installed on a flat surface to avoid tipping. Maintain a distance of at least 6cm between the back of the product and the wall for proper ventilation. Avoid installing the product in a kitchen, bathroom or any other place with high humidity so as not to shorten the service life of the electronic components.
- Do not place this product on the floor and keep away from children.
- The product can normally operate only under 4000m in altitude. In installations at altitudes above 4000m, some abnormalities may be experienced.

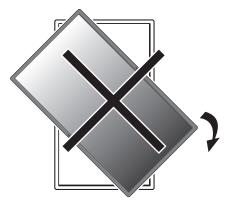
1.4. MOUNTING THE DISPLAY

Wall mounting holes



Notes:

- Metric 6 (10mm) screws (having a length 10-15mm longer than the thickness of the mounting bracket) are needed for wall mounting (not included). Tighten the screws securely (recommended torque: 470 - 635N•cm)
- The mounting interface should comply with the UL1678 standard in North America. The mounting means should be strong enough to bear the weight of the display (approx. 54 kg (125 lb) without stand).

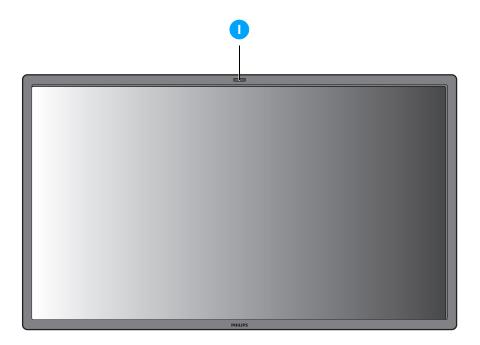


Warning: Not for use in portrait mode. Warranty will be void if installed in any orientation other than landscape.

Note: When installing the display on the wall, please consult a professional technician for proper installation. The manufacturer accepts no liability for installations not performed by a professional technician.

2. PARTS AND FUNCTIONS

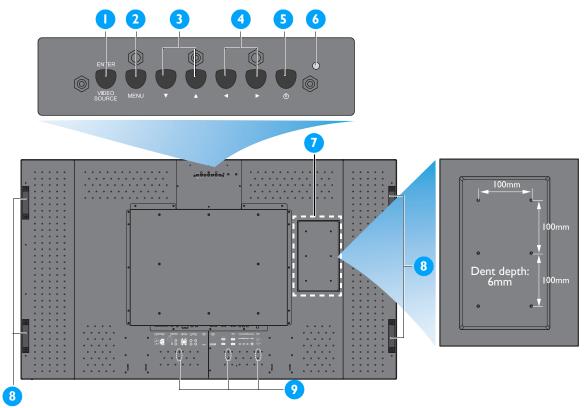
2.1. FRONT VIEW



1. Remote control sensor, ambient light sensor and power indicator

- Receives command signals from the remote control.
- Detects the ambient lighting conditions around the display.
- Indicates the operating status of the display:
 - lights blue when the display is turned on
 - lights amber in standby mode
 - blinks blue when remote control signal is received
 - blinks amber when the display enters DPMS mode
 - off when the main power of the display is turned off

2.2. REAR VIEW



I. ENTER/VIDEO SOURCE button

- Use this button to select the input source.
- When the On Screen Display menu is active, this is also used as the **SET** button.

2. MENU button

- Use this button to engage the On Screen Display menu.
- When the On Screen Display menu is active, use this button to return to the previous menu.

3. ▲/▼ button

- When the On Screen Display menu is active, use these as the UP/DOWN menu buttons.
- Press and hold the ▲ and ▼ buttons simultaneously for 3 seconds to lock or unlock all buttons.

4. ♦ / **>** button

• When the On Screen Display menu is active, use these as the **PLUS/MINUS** menu buttons.

5. POWER button

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

6. Power indicator

Indicates the operating status of the display:

- lights green when the display is turned on
- lights red when the display is in standby mode
- blinks red when the display enters DPMS mode
- off when the main power of the display is turned off

7. Smart Insert installation holes

Location for the Smart Insert (for integration of a small form factor PC) and M4 screws. (Maximum load: 2kg)

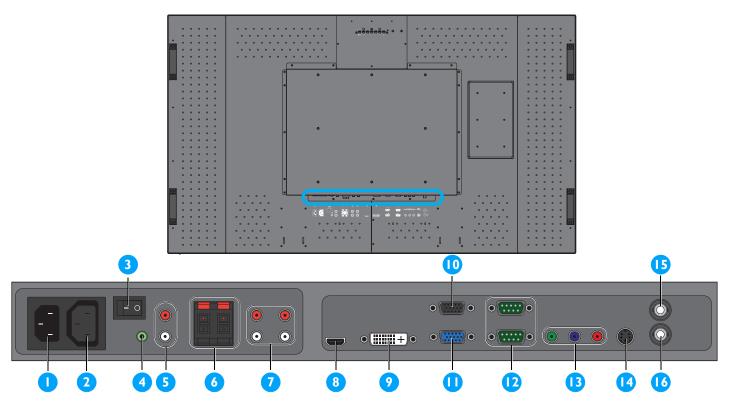
8. Carrying handle

Use these handles when carrying the display by hand.

9. Cable retainer installation holes

Install the cable retainer using these holes.

2.3. INPUT/OUTPUT TERMINALS



I. AC IN (10 A)

Connects the supplied power cord to the wall outlet.

2. AC OUT (5.0 A)

Connects to the AC IN socket of another BDL6531E display or external media device.

3. Main power switch

Press to switch the main power on/off.

4. AUDIO IN (AUDIOI)

Connects to the audio output of a computer.

5. AUDIO OUT R/L

Outputs the audio signal from the AUDIO IN (AUDIOI/AUDIO2/AUDIO3) or HDMI jack.

6. SPEAKERS R/L

Outputs the audio signal from the **AUDIO IN** (**AUDIOI/AUDIO2/AUDIO3**) or **HDMI** jack to external speakers.

7. AUDIO IN (AUDIO2/AUDIO3)

Connects to the audio output of an AV device.

8. VIDEO IN (HDMI)

Connects to the HDMI output of an AV device or to the DVI-D output of a PC. (Using a DVI-HDMI cable)

9. VIDEO IN (DVI-D)

Connects to the DVI-D output of a PC or to the HDMI output of an AV device (Using a DVI-HDMI cable).

10. VGA OUT

Outputs the VGA signal from the VGA IN jack.

II. VGA IN

Connects to the VGA output of a computer.

12. RS232C (OUT/IN)

RS232C network connection input/output for the use of loop through function.

13. VIDEO IN (COMPONENT)

Component video input (YPbPr) for connecting to the component output of an AV device.

14. VIDEO IN (S-VIDEO)

S-Video input for connecting to the S-Video output of an AV device.

15. VIDEO OUT

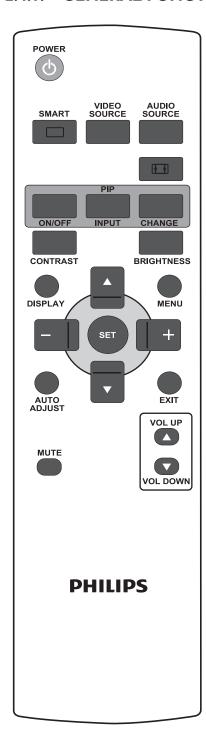
Connects to the video input of an AV device or another BDL6531E display.

16. VIDEO IN

Connects to the video output of an AV device or another BDL6531E display.

2.4. REMOTE CONTROL

2.4.1. GENERAL FUNCTIONS





Press to switch on the display from standby mode. Press again to turn it off to standby mode.



To select smart picture mode from:

- HIGHBRIGHT: for moving image such as Video
- STANDARD: for images (factory setting)
- sRGB: for text based images
- CINEMA: for movies.
- **CUSTOM**: use your own picture setting. The mode is automatically selected after you change the settings in the **PICTURE** menu.



To activate the video source selection menu. Press repeatedly to select the video input source from **HDMI**, **DVI-D**, **VGA**, **COMPONENT**, **S-VIDEO**, and **VIDEO**.



To activate the audio source selection menu. Press repeatedly to select the video input source from **HDMI**, **AUDIO 1**, **AUDIO 2**, and **AUDIO 3**.

Picture format button

To switch screen aspect ratio between FULL, NORMAL, DYNAMIC, CUSTOM, REAL, and 21:9.

PIP (Picture In Picture) buttons

- ON/OFF button: To turn PIP mode ON/OFF.
- INPUT button: To select the input signal for the sub-picture.
- CHANGE button: To toggle between the main picture and sub picture.

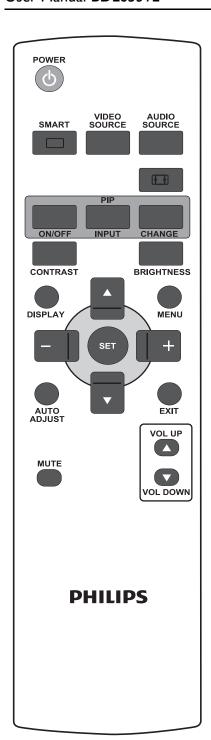
Note: "PIP" mode does not work if the screen size is set to "CUSTOM", "DYNAMIC", "REAL" or "21:9".



Press to open the **CONTRAST** OSD selection, and then press the **PLUS** or **MINUS** button to adjust the value.



Press to open the **BRIGHTNESS** OSD selection, and then press the **PLUS** or **MINUS** button to adjust the value.





To turn on/off the setting information displayed on the upper right corner of the screen.



To turn the OSD menu on/off.

△ UP button

- To move the highlight bar up to adjust the selected item when OSD menu is on.
- To move the sub-picture up in "PIP" mode.

DOWN button

- To move the highlight bar down to adjust the selected item when OSD menu is on.
- To move the sub-picture down in "PIP" mode.

+ PLUS button

- To increase the adjustment with OSD menu.
- To move the sub-picture right in "PIP" mode.

MINUS button

- To decrease the adjustment with OSD menu.
- To move the sub-picture left in "PIP" mode.

SET SET button

To activate the changed settings inside OSD menu.



Note: For the VGA input only.

To execute the **AUTO ADJUST** function.



To turn to the previous OSD menu.

MUTE button

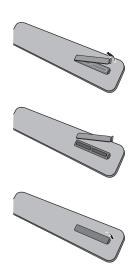
To turn the mute function on/off.

VOL UP button

To increase the audio output level.

VOL DOWN button

To decrease the audio output level.



2.4.2. INSERTING THE BATTERIES IN THE REMOTE CONTROL

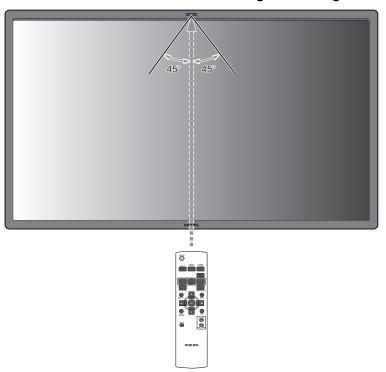
- I. Remove the cover on the rear of the remote control.
- 2. Insert two AAA size 1.5V batteries ensuring that the "+" and "-" ends of the batteries are correctly aligned.
- 3. Replace the cover.

Note: Do not mix battery types, e.g. alkaline and manganese.

2.4.3. OPERATING RANGE OF THE REMOTE CONTROL

When pressing a remote control button, point the top of the remote control towards the remote control sensor.

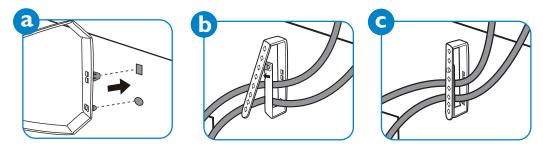
Use the remote control within a distance of about 10m/33ft from the display's remote control sensor and within a horizontal and vertical angle of 45 degrees.



Note: The remote control may not function properly if the remote control sensor on the display is under direct sunlight, in a location with strong illumination, or if there is an obstacle in the path of signal transmission.

3. CONNECTIONS TO EXTERNAL EQUIPMENT

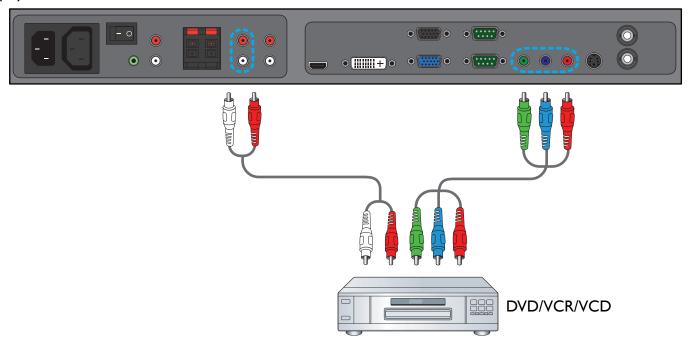
3.1. USING THE CABLE RETAINER



3.2. CONNECTING EXTERNAL EQUIPMENT (DVD/VCR/VCD)

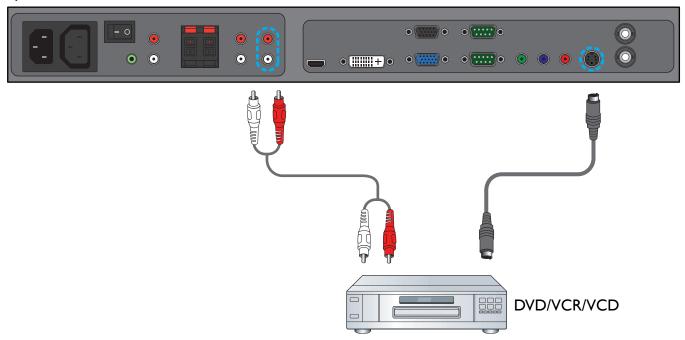
3.2.1. USING COMPONENT VIDEO INPUT

- I. Connect the green-colored (labeled as "Y") jack of the device to the green-colored "Y" jack of the display.
- 2. Connect the blue-colored (labeled as "Pb") jack of the device to the blue-colored "Pb" jack of the display.
- 3. Connect the red-colored (labeled as "Pr") jack of the device to the red-colored "Pr" jack of the display.
- 4. Connect the red (R) and white (L) audio jacks of the device to the AUDIO IN (AUDIO2 or AUDIO3) jacks of the display.



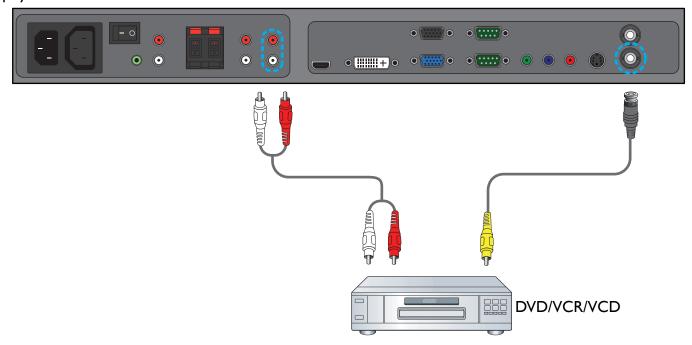
3.2.2. USING S-VIDEO INPUT

- 1. Connect the S-Video connector of the external device to the S-VIDEO input of the display.
- 2. Connect the red (R) and white (L) audio jacks of the device to the AUDIO IN (AUDIO2 or AUDIO3) jacks of the display.



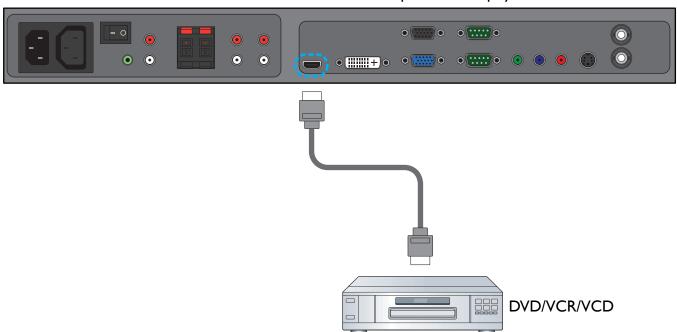
3.2.3. USING VIDEO INPUT

- I. Connect the Video connector of the external device to the VIDEO IN input of the display. Use the supplied BNC-to-RCA adapter if necessary.
- 2. Connect the red (R) and white (L) audio jacks of the device to the AUDIO IN (AUDIO2 or AUDIO3) jacks of the display.



3.2.4. USING HDMI INPUT

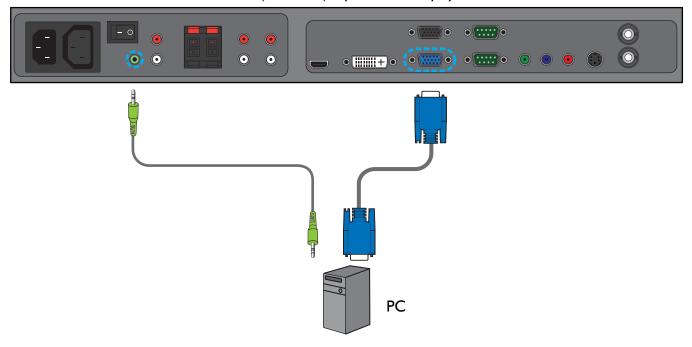
Connect the HDMI connector of the external device to the HDMI input of the display.



3.3. CONNECTING A PC

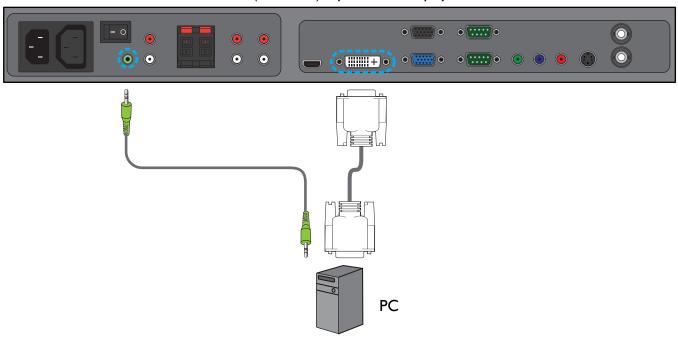
3.3.1. USING VGA INPUT

- 1. Connect the 15-pin VGA connector of the PC to the VGA IN connector of the display.
- 2. Connect the audio cable to the AUDIO IN (AUDIO I) input of the display.



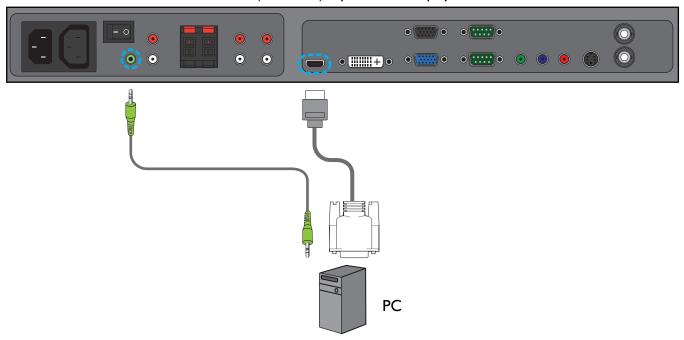
3.3.2. USING DVI INPUT

- I. Connect the DVI-D connector of the PC to the DVI-D connector of the display.
- 2. Connect the audio cable to the AUDIO IN (AUDIO I) input of the display.



3.3.3. USING HDMI INPUT

- I. Connect the DVI-D connector of the PC to the HDMI connector of the display using a DVI-HDMI cable.
- 2. Connect the audio cable to the AUDIO IN (AUDIO I) input of the display.

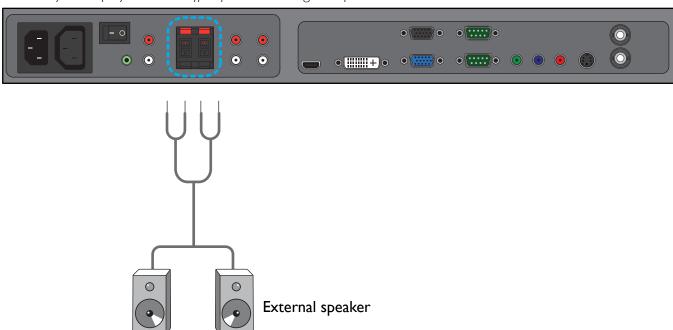


3.4. EXTERNAL AUDIO CONNECTION

3.4.1. CONNECTING EXTERNAL SPEAKERS

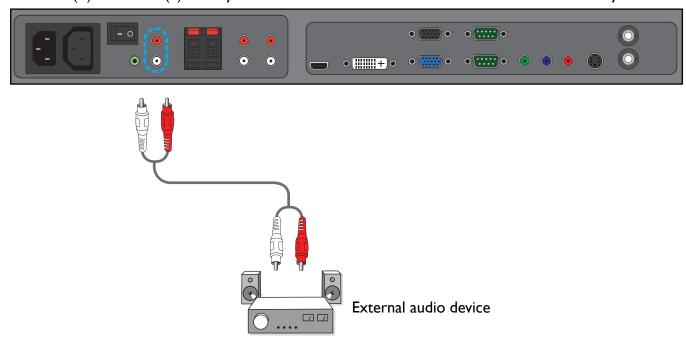
- 1. Connect the speaker wires to the external speaker (SPEAKERS) output of the display.
- 2. Turn on the display.

Note: Make sure your display is turned off before connecting the speaker wires.



3.4.2. CONNECTING EXTERNAL AUDIO DEVICE

Connect the red (R) and white (L) audio jacks of the external audio device to the AUDIO OUT R/L jacks of the display.

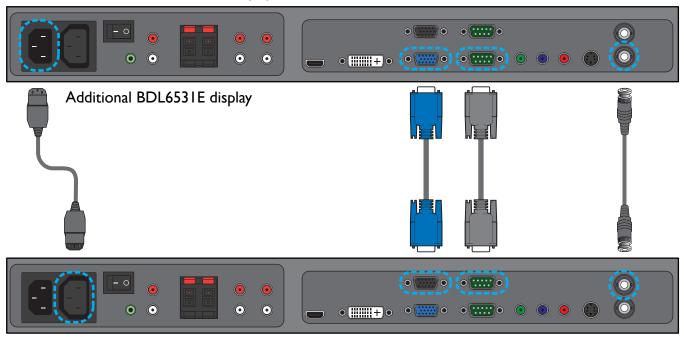


3.5. CONNECTING ANOTHER BDL6531E DISPLAY

You can interconnect multiple BDL6531E displays to create a daisy-chain configuration for applications such as a TV wall.

Note: The number of displays that can be used in a daisy-chain configuration will depend on the resolution of the input signal being used.

- Connect the VGA OUT connector of the display to the VGA IN connector of additional BDL6531E unit.
- Connect the RS232C OUT connector of the display to the RS232C IN connector of additional BDL6531E unit.
- Connect the VIDEO OUT connector of the display to the VIDEO IN connector of additional BDL6531E unit.
- Connect the AC OUT connector of the display to the AC IN connector of additional BDL6531E unit.

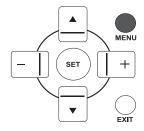


4. OSD MENU

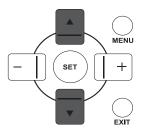
An overall view of the On-Screen Display (OSD) structure is shown below. This can be used as a reference for further adjusting your display.

4.1. NAVIGATING THE OSD MENU

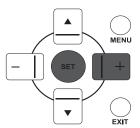
4.1.1. NAVIGATING THE OSD MENU USING THE REMOTE CONTROL



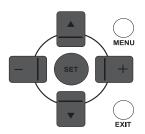
I. Press the **MENU** button on the remote control to display the OSD menu.



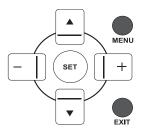
2. Press the **UP/DOWN** button to choose the item you want to adjust.



3. Press the **PLUS/SET** button to enter the submenu.



4. In the submenu, press the **UP/DOWN** button to toggle between items, or press **PLUS/MINUS** button to adjust settings. If there is a submenu, press the **SET** button to enter it.



5. Press the **EXIT** button on the remote control to return to the previous menu, or press the **MENU** button to exit the OSD menu.

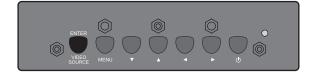
4.1.2. NAVIGATING THE OSD MENU USING THE DISPLAY'S CONTROL BUTTONS



I. Press the **MENU** button to display the OSD menu.



2. Press the \triangle/∇ button to choose the item you want to adjust.



3. Press the **ENTER/VIDEO SOURCE** button to enter the submenu.



4. In the submenu, press the ▲/▼ button to toggle between items, or press ◀/▶ button to adjust settings. If there is a submenu, press the ENTER/VIDEO SOURCE button to enter it.



5. Press the **MENU** button on the remote control to return to the previous menu, or press the **MENU** button repeatedly to exit the OSD menu.

4.2. OSD MENU OVERVIEW

4.2.1. PICTURE MENU

PHILIPS



BRIGHTNESS

Adjust the overall image brightness by changing the intensity of the LCD panel's backlight.

Use the **PLUS/MINUS** button to adjust.

CONTRAST

Adjust to sharpen the picture quality. The black portions of the picture become richer and the whites become brighter.

Use the PLUS/MINUS button to adjust.

SHARPNESS

Adjust to improve detail.

Use the PLUS/MINUS button to adjust.

BLACK LEVEL

Adjust to change the image brightness.

Use the **PLUS/MINUS** button to adjust.

NOISE REDUCTION

Note: For VIDEO, S-VIDEO, COMPONENT and HDMI inputs with interlaced video only.

Adjust to remove the noise in the image - thereby enhancing the detail of your images.

You can select a suitable noise reduction level.

Use the **PLUS/MINUS** button to make selection.

TINT

Note: For VIDEO, S-VIDEO, COMPONENT, and HDMI inputs only.

Adjust to change the color tint of the image.

Use the **PLUS/MINUS** button to adjust. Press the **PLUS** button and the flesh tone color turns slightly green. Press the **MINUS** button and the flesh tone color turns slightly purple.

COLOR

Note: For VIDEO, S-VIDEO, COMPONENT, and HDMI inputs only.

Adjusts to increase or decrease the intensity of colors in the image.

Press the PLUS button to increase color intensity, or press the MINUS button to decrease it.

COLOR TEMPERATURE

Select a color temperature for the image. The image has a reddish tint with a lower color temperature, whilst a higher color temperature gives off a more bluish tint.

Use the **PLUS/MINUS** button to make selection.

COLOR CONTROL

Note: This function is only available when COLOR TEMPERATURE is set to USER.

With this function you can adjust the color tones of the image precisely by changing the R (Red), G (Green) and B (Blue) settings independently.

Press the **SET/PLUS** button to open the submenu. Press the **UP/DOWN** button to select **R**, **G** or **B**, and press the **PLUS/MINUS** button to adjust.

LIGHT SENSOR

Choose to enable or disable the ambient light sensor. Once enabled, the image brightness will be adjusted automatically when the ambient lighting conditions change.

Use the **PLUS/MINUS** button to make selection.

SMART CONTRAST

Turned on, this function helps enhance image contrast when displaying dark scenes.

Use the **PLUS/MINUS** button to make selection.

VIDEO SOURCE

Select a video input source.

Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to toggle between

· HDMI · DVI-D

VGA
 COMPONENT

· S-VIDEO · VIDEO

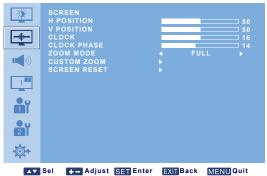
PICTURE RESET

Reset all settings in the **PICTURE** menu.

Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to make selection. Select **YES** and press the **SET** button to restore settings to factory preset values. Press the **EXIT** button to cancel and return to the previous menu.

4.2.2. SCREEN MENU

PHILIPS



H POSITION

Note: For VGA input only.

Adjust the horizontal placement of the picture.

Press the **PLUS** button to move the image to the right, or **MINUS** to move the image to the left.

V POSITION

Note: For VGA input only.

Adjust the vertical placement of the picture.

Press the **PLUS** button to move the image up, or **MINUS** to move the image down.

CLOCK

Note: For VGA input only.

Adjust the width of the image.

Press the **PLUS** button to expand the width of the image, or **MINUS** to shrink it.

CLOCK PHASE

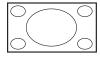
Note: For VGA input only.

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

Use the **PLUS/MINUS** button to adjust.

ZOOM MODE

The pictures you receive may be transmitted in 16:9 format (widescreen) or 4:3 format (conventional screen). 16:9 pictures sometimes have a black band at the top and bottom of the screen (letterbox format). This function allows you to optimize the picture display on screen. The following zoom modes are available:



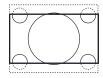
• **FULL** - This mode restores the correct proportions of pictures transmitted in 16:9 using the full screen display.



 NORMAL - The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture.



- **DYNAMIC** Fill the entire screen by stretching 4:3 pictures non-proportionally.
- CUSTOM Choose to apply the custom zoom settings in the CUSTOM ZOOM submenu.
- **REAL** This mode displays the image pixel-by-pixel on screen without scaling the original image size.



• 21:9 - The picture is enlarged to 16:9 format. This mode is recommended when displaying pictures that have black bands at the top and bottom (letterbox format).

CUSTOM ZOOM

Note: This item is only available when ZOOM MODE is set to CUSTOM.

You can use this function to further customize the zoom settings to suit the image you want to display. Press the **SET/PLUS** button to open the submenu. Use the **UP/DOWN** button to toggle between the following items, and use the PLUS/MINUS button to adjust.



ZOOM - Expands the horizontal and vertical sizes of the image simultaneously.



• **HZOOM** - Expands the horizontal size of the image only.



• **VZOOM** - Expands the vertical size of the image only.



• **H POSITION** - Moves the horizontal position of the image left or right.



• **V POSITION** - Moves the vertical position of the image up or down.

SCREEN RESET

Reset all settings in the **SCREEN** menu.

Press the SET/PLUS button to open the submenu, and then press the UP/DOWN button to make selection. Select YES and press the SET button to restore settings to factory preset values. Press the EXIT button to cancel and return to the previous menu.

4.2.3. AUDIO MENU

PHILIPS



VOLUME

Adjust to increase or decrease the audio output level.

Use the **PLUS/MINUS** button to adjust.

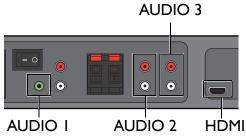
MUTE

To turn the mute function on/off.

Use the **PLUS/MINUS** button to make selection.

AUDIO SOURCE

To select the audio input source according to the source connected to the audio input and HDMI sockets on the display.



Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to toggle between

• AUDIO 1 • AUDIO 2 • AUDIO 3 • HDMI

SPEAKER

Set the display to play audio using the built-in (internal) speaker, external speakers or external audio devices (if connected).

Use the **PLUS/MINUS** button to toggle between

• INTERNAL • EXTERNAL

LINE-OUT

AUDIO RESET

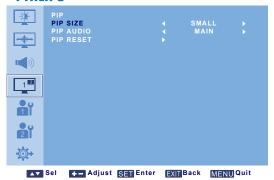
Reset all settings in the **AUDIO** menu.

Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to make selection. Select **YES** and press the **SET** button to restore settings to factory preset values. Press the **EXIT** button to cancel and return to the previous menu.

4.2.4. PIP MENU

Note: For COMPONENT, VGA, DVI-D and HDMI inputs only.

PHILIPS



PIP SIZE

Select the size of the sub picture in the PIP (Picture-in-Picture) mode.

Use the **PLUS/MINUS** button to toggle between

LARGE

MIDDLE

SMALL

PIP AUDIO

Select the audio source in the PIP (Picture-in-Picture) mode.

Use the **PLUS/MINUS** button to toggle between

- MAIN Select audio from the main picture
- PIP Select audio from the sub picture.

PIP RESET

Reset all settings in the PIP menu.

Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to make selection. Select **YES** and press the **SET** button to restore settings to factory preset values. Press the **EXIT** button to cancel and return to the previous menu.

Notes:

• The PIP function is only available under certain signal source combinations as shown in the table below.

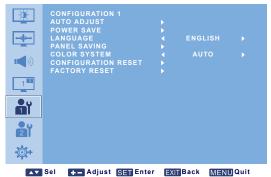
		Main picture signal source								
		VIDEO	S-VIDEO	COMPONENT	VGA	DVI-D	HDMI			
Sub picture signal source	VIDEO	X	X	×	×	×	×			
	S-VIDEO	×	×	×	×	×	×			
	COMPONENT	×	×	×	×	0	0			
	VGA	×	×	×	×	0	0			
	DVI-D	×	×	0	0	×	×			
	HDMI	×	×	0	0	×	×			

(O: PIP function available, X: PIP function unavailable)

• The availability of the PIP function will also depend on the resolution of the input signal being used.

4.2.5. CONFIGURATION I MENU

PHILIPS



AUTO ADJUST

Note: For VGA input only.

Use this function to automatically optimize the display of VGA input image. Press the **SET** button to adjust.

POWER SAVE

Set the display to reduce the power automatically.

Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to toggle between

- **RGB** Select **ON** to let the display enter DPMS (Display Power Management Signaling) mode when no signal can be detected from the HDMI, DVI-D, and VGA inputs after three successive cycles. Use the **PLUS/MINUS** button to make selection.
- VIDEO Select ON to let the display enter power saving mode when no signal is detected from the VIDEO, S-VIDEO, and COMPONENT inputs after three successive cycles. Use the PLUS/MINUS button to make your selection.

LANGUAGE

Select the language for the OSD menu.

Use the PLUS/MINUS button to select a language.

PANEL SAVING

Choose to enable the panel saving functions to reduce the risk of the "image persistence". Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to toggle between

- **COOLING FAN** Set the working pattern of the display's internal cooling fan. Select **AUTO** and the cooling fan will only be activated when the display reaches a certain temperature. Select **ON** and the cooling fan will work constantly when the display power is on. Use the **PLUS/MINUS** button to make selection.
- **BRIGHTNESS** Select **ON** and the brightness of the image will be reduced to an appropriate level according to the ambient surroundings, and the **BRIGHTNESS** setting in the **PICTURE** menu will become unavailable. Use the **PLUS/MINUS** button to make selection.
- PIXEL SHIFT Select the time interval for the display to slightly expand the image size and shift the
 position of pixels in four directions (up, down, left, and right). Use the PLUS/MINUS button to make
 selection (OFF-900 seconds from current time). This helps to alleviate the issues of ghost imaging.

COLOR SYSTEM

Select the color system depending on the input video format.

Use the **PLUS/MINUS** button to toggle between

AUTO
 PAL 4.43
 PAL 3.58
 NTSC 4.43
 NTSC 3.58

CONFIGURATION RESET

Reset all settings in the **CONFIGURATION I** menu.

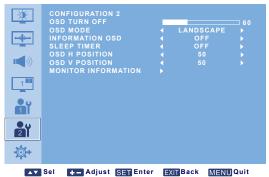
Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to make selection. Select **YES** and press the **SET** button to restore settings to factory preset values. Press the **EXIT** button to cancel and return to the previous menu.

FACTORY RESET

Reset all settings in the PICTURE, SCREEN, AUDIO, PIP, CONFIGURATION I, CONFIGURATION 2, and ADVANCED OPTION menus. Press the SET/PLUS button to open the submenu, and then press the UP/DOWN button to make selection. Select YES and press the SET button to restore settings to factory preset values. Press the EXIT button to cancel and return to the previous menu.

4.2.6. CONFIGURATION 2 MENU

PHILIPS



OSD TURN OFF

Set the period of time the OSD menu stays on the screen (from 5 to 120 seconds) Use the PLUS/MINUS button to adjust.

OSD MODE

Select the orientation of the OSD according to the orientation the display is installed.

Use the **PLUS/MINUS** button to toggle between

PORTRAIT

LANDSCAPE

INFORMATION OSD

Set the period of time the information OSD stays on the screen. The information OSD will display when input signal is changed.

Use the **PLUS/MINUS** button to adjust. The information OSD will not appear when **OFF** is selected. If **0** is selected, the information OSD will remain on the screen.

SLEEP TIMER

Set the display to enter standby mode within a user-specified amount of time. (**OFF-24** hours from current time)

Use the **PLUS/MINUS** button to adjust.

Note: When the SLEEP TIMER is activated, SCHEDULE settings will be disabled.

OSD H POSITION

Adjust the horizontal position of the OSD menu.

Use the **PLUS/MINUS** button to adjust.

OSD V POSITION

Adjust the vertical position of the OSD menu.

Use the **PLUS/MINUS** button to adjust.

MONITOR INFORMATION

Displays the information about your display, including model name, serial number, operating hours and software version.

Press the **SET** button to view the information. Press the **EXIT** button to return to the previous menu.

4.2.7. ADVANCED OPTION MENU

PHILIPS



INPUT RESOLUTION

Note: For VGA input only.

Set the resolution of the VGA input. This is only required when the display is unable to detect the VGA input resolution correctly.

Use the **PLUS/MINUS** button to toggle between

• AUTO • 1024x768 • 1280x768

• 1360x768 • 1366x768

BLACK LEVEL EXPANSION

Note: For VIDEO, S-VIDEO, COMPONENT, and HDMI (video mode) inputs only.

This feature offers deeper blacks for an even better image quality. Select a suitable black level expansion setting to reveal more details in the dark parts of an image.

Use the **PLUS/MINUS** button to toggle between

OFFMIDDLEHIGH

GAMMA SELECTION

Gamma is what controls the overall brightness of an image. Images which are not corrected properly can appear too white or too dark, so controlling the gamma properly can have a huge influence on the overall picture quality of your display.

Select a display gamma value to best suit the image and optimize image brightness and contrast.

Use the **PLUS/MINUS** button to toggle between

• 2.2

NATIVE

SCAN MODE

Note: For VIDEO, S-VIDEO, COMPONENT, and HDMI (video mode) inputs only.

Change the display area of the image.

Use the **PLUS/MINUS** button to toggle between

- OVERSCAN Displays about 95% of the original size of the image. The rest of the areas surrounding the image will be cut off.
- **UNDERSCAN** Displays the image in its original size.

SCAN CONVERSION

Note: For VIDEO, S-VIDEO, COMPONENT, and HDMI (video mode) inputs only.

Choose to enable or disable the IP (Interlace to Progressive) conversion function.

Use the **PLUS/MINUS** button to toggle between

- **PROGRESSIVE** Enable the IP conversion function (recommended). Once enabled, the interlace input signal will be converted to progressive format for better display quality.
- **INTERLACE**: Disable the IP function. This mode is suitable for displaying motion pictures, but it increases the chance of image retention.

FILM MODE

Note: For VIDEO, S-VIDEO, COMPONENT, and HDMI (video mode) inputs only.

Choose to turn on or off the film mode frame conversion function.

Use the **PLUS/MINUS** button to toggle between

- AUTO Enable the film mode frame conversion function for movies and motion pictures. The display converts a 24 frames-per-second (24 fps) input signal format to DVD video signal format. Once this function is enabled, it is recommended that you set the SCAN CONVERSION function to PROGRESSIVE.
- **OFF** Disable the film mode frame conversion function. This mode is suitable for TV broadcasting and VCR signals.

IR CONTROL

Select the operation mode of the remote control when multiple BDL6531E displays are connected via RS232C cables.

Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to toggle between

- NORMAL All displays can be operated normally by the remote control.
- **PRIMARY** Designate this display as the primary display for remote control operation. Only this unit can be operated by the remote control.
- **SECONDARY** Designate this display as the secondary display. This unit can not be operated by the remote control, and will only receive the control signal from the primary display via RS232C connection.
- LOCK Lock the remote control function of this display. To unlock, press and hold the **DISPLAY** button on the remote control for 5 seconds.

KEYBOARD CONTROL

Choose to enable or disable the function of the keyboard (control buttons) on the display.

Use the **PLUS/MINUS** button to toggle between

- LOCK Disable the keyboard.
- UNLOCK Enable the keyboard.

TILING

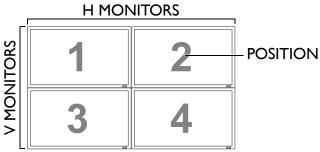
Note: For VGA input only.

With this function you can create a single large screen matrix (display wall) that consists of up to 150 BDL6531E displays (10 displays on the vertical side and 15 displays on the horizontal side). This requires you to connect each BDL6531E display in a daisy-chain configuration. Example:

 2×2 screen matrix (4 displays)

H MONITORS = 2

V MONITORS = 2



5 x 5 screen matrix (25 displays)

H MONITORS = 5

V MONITORS = 5

H MONITORS

			1011110	7110		•
	1	2	3	4	5	POSITION
ORS	6	7	8	9	10	
V MONITORS	11	12	13	14	15	
Μ	16	17	18	19	20	
	21	22	23	24	25	

10 x 15 screen matrix (150 displays)

H MONITORS = 15

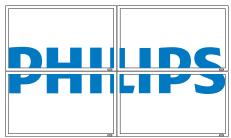
V MONITORS = 10

H MONITORS

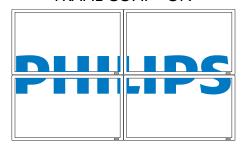
	1111014110143															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	POSITION
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
RS	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
Ö	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
틹	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
Ó	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	
Σ	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	
	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	
	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	

- **H MONITORS** Select the number of displays on the horizontal side.
- **V MONITORS** Select the number of displays on the vertical side.
- **POSITION** Select the position of this display in the screen matrix.
- FRAME COMP Choose to turn frame compensation on or off. If turned on, the display will adjust the image to compensate for the width of the bezels in order to accurately display the image.

FRAME COMP - OFF



FRAME COMP - ON



• **ENABLE**: Choose to enable or disable the **TILING** function. If enabled, the display will apply the settings in **H MONITORS**, **V MONITORS**, **POSITION**, and **FRAME COMP**.

Note: PIP function is disabled when TILING is enabled.

HEAT STATUS

This function allows you to check the thermal status of the display at any time. The accuracy of the temperature indicated is ± 5 degrees.

Press the **SET** button to view the heat status. Press the **EXIT** button to return to the previous menu.

DATE AND TIME

Adjust current date and time for the display's internal clock.

Press the PLUS button to open the submenu. Press the UP/DOWN button to toggle between the YEAR, MONTH, DAY, HOUR, MINUTE, and DAYLIGHT SAVING TIME settings, and then press the PLUS/MINUS button to adjust.

SCHEDULE

Note: We recommend setting up current date and time in DATE AND TIME before using the SCHEDULE function.

This function allows you to program up to seven different scheduled time intervals for the display. You can select the time the display turns on and turns off, the days in a week the display is activated, and which input source the display will use for each scheduled activation period.

For example, if you wish to turn the display on automatically at 7:30 AM and off at 10:30 PM on Tuesdays and Wednesdays and broadcast the signal from the HDMI input:

	Time														
		00 1:00 2:00 3	3:00 4:00 5:	00 6:00 7:0	00 8:00 9:	00 10:00 11:0		13:00 14:0	00 15:00 16	:00 17:00	18:00 19:	:00 20:00	21:00 22	2:00 23	3:00
	MON						Off								
	TUE		Off						On						Off
	WED		Off						On						Off
Day	THU						Off								
	FRI					(Off								
	SAT						Off								
	SUN					(Off								

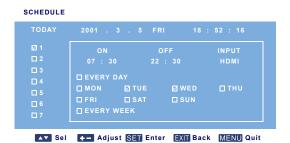
Perform the following steps:

I. With the **SCHEDULE** item highlighted in the **ADVANCED OPTION** menu, press the **SET** button to open the submenu.



- 2. Press the **UP/DOWN** button to select schedule item #I (I), and then press the **PLUS** button. A check mark will appear in the box indicating that the schedule item has been selected.
- 3. With the **ON** item highlighted, press the **SET** button and then press the **UP/DOWN** button to set the power on hour to "07".
- 4. Press the **PLUS** button to move to the minute slot. Press the **UP/DOWN** button to set the power on minute to "30", then press the **EXIT** button.

- 5. Press the **PLUS** button to highlight the **OFF** item. Press the **SET** button, and then press the **UP**/ **DOWN** button to set the power off hour to "22".
- 6. Press the **PLUS** button to move to the minute slot. Press the **UP/DOWN** button to set the power off minute to "30", then press the **EXIT** button.
- 7. Press the **PLUS** button to highlight the **INPUT** item, and then press the **UP/DOWN** button to select **HDMI**.
- 8. Press the **PLUS** button to select **TUE** and then press the **SET** button. A check mark will appear in the box indicating that it has been selected.
- 9. Press the **PLUS** button to select **WED** and then press the **SET** button. A check mark will appear in the box indicating that it has been selected.
- 10. Now you have completed the schedule settings. The on-screen display should look like the illustration below:



II. Press the **EXIT** button and the menu will close and the schedule settings will take effect. To set up more schedule items, repeat the steps above except that a different schedule item should be selected (schedule item #2 (\square 2) through #7 (\square 7)) in step 2.

Note:

- Seven scheduling options are available so that you can choose between different video input modes for different schedules during the week. For example, VGA input on a Monday, HDMI on Tuesday to Friday, S-VIDEO for weekends.
- If you do not want to use a power on time, select "--" for the power on hour slot, and "00" for the minute slot. The display will only turn off at the time you set.
- If you do not want to use a power off time, select "--" for the power off hour slot, and "00" for the minute slot. The display will only turn on at the time you set.
- If no input source is selected, the default input source (VIDEO) will be used.
- If EVERY DAY is selected, the display will turn on everyday regardless of other day settings (e.g MON, TUE, WED..., etc.).
- When schedule periods overlap, the power on time has priority over power off time. For example, if schedule item #1 sets the display to power on at 10:00 AM and off at 5:00 PM, and schedule item #2 sets the display to power on at 4:00 PM and off at 9:00 PM on the same day, then the display will power on at 10:00 AM and off at 9:00 PM.
- If there are multiple schedule items programmed for the same time period, then the highest numbered schedule item has priority. For example, if schedule items #1 and #2 both set the display to power on at 7:00 AM and off at 5:00 PM, then only schedule item #1 will take effect.

MONITOR ID

Set the ID number for controlling the display via the RS232C connection. Each display must have a unique ID number when multiple BDL6531E displays are connected.

See table under "Tiling" for more information. Use the PLUS/MINUS button to select a monitor ID.

DDC/CI

Choose to turn **ON** or **OFF** the DDC/Cl communication function. Select ON for normal use. Use the **PLUS/MINUS** button to make selection.

SMART POWER

Set the display to reduce the power consumption automatically. Setting to **HIGH** will bring the most power savings.

Use the **PLUS/MINUS** button to toggle between

• OFF • MEDIUM

HIGH

AUTO SIGNAL DETECTION

Select to let the display detect and display available signal source automatically.

- **ON** Set the display to display the image automatically once a signal is connected.
- OFF Once a signal is connected, it can only be selected manually.

Use the **PLUS/MINUS** button to make selection.

ADVANCED OPTION RESET

Reset all settings in the **ADVANCED OPTION** menu.

Press the **SET/PLUS** button to open the submenu, and then press the **UP/DOWN** button to make selection. Select **YES** and press the **SET** button to restore settings to factory preset values. Press the **EXIT** button to cancel and return to the previous menu.

5. INPUT MODE

VGA Resolution

Standard	Active R	esolution	Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode	
Resolution	H Pixels	V Lines	- Keiresii Kate	i ixei ixate	Aspect Natio	Stand for Prode	
			60 Hz	25.175 MHz			
VGA	640	480	72 Hz	31.5 MHz	4:3	Video Graphic Array	
			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	
SVGA	800	600	75 Hz	49.5 MHz	4.5		
XGA	1024	768	60 Hz	65 MHz	4:3	Extended Graphic Array	
AGA	1024	700	75 Hz	78.75 MHz	4.5		
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	Active R	esolution	Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode	
Resolution	H Pixels	V Lines	Neiresii Nate	i ixei ivate	Aspect Natio	Starrd for 1 lode	
480i	720	480	29.97 Hz	13.5 MHz	4:3	Modified NTSC Standard	
480p	720	760	59.94 Hz	27 MHz	- т.з	Modified IN 13C Standard	
576i	720	480	25 Hz	13.5 MHz	4:3	Modified PAL Standard	
576p	720	700	50 Hz	27 MHz		Modified FAL Staffdard	

HDTV Resolution

Standard	Active R	esolution	Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode	
Resolution	H Pixels	V Lines	Refresi Nate	Tixel Nace	Aspect Natio	Stand for Prode	
720p	1280	720	50 Hz	50 Hz 74.25 MHz		Normally DVB Mode	
720p	1200	720	60 Hz	74.2311112	16:9	Troffilally DVDT lode	
1080i	1920	1080	25 Hz	74.25 MHz	16:9	Normally ATSC Mode	
10001	1720	1000	30 Hz	74.2311112	10.7	Normany ATSC Mode	
1080p	1920	1080	50 Hz	148.5 MHz	16:9	Normally ATSC Mode	
товор	1720	1000	60 Hz	170.511112	10.7		

- The PC text quality is optimum in HD 1080 mode (1920 \times 1080, 60Hz).
- Your PC monitor screen may appear differently depending on the manufacture (and your particular version of Windows). Check your PC instruction book for information about connecting your PC to a display.

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- 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 this happens, 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.

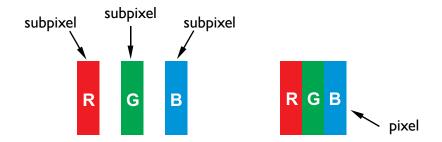
6. PIXEL DEFECT POLICY

We strive to deliver the highest quality products and use some of the industry's most advanced manufacturing processes whilst practicing stringent quality control. However, pixel or sub-pixel defects on the PDP / TFT panels used in Plasma- & LCD- displays are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but Philips guarantees that any Plasma- & LCD- displays with an unacceptable number of defects will be repaired during the warranty period in line with your local guarantee conditions.

This notice explains the different types of pixel defects and defines the acceptable defect level for the BDL4230E LCD screen. In order to qualify for repair under warranty, the number of pixel defects must exceed a certain level as shown in the reference table. If the LCD screen is within specification a warranty exchange / claim back will be refused. Additionally, because some types or combinations of pixel defects are more noticeable than others, Philips sets even higher quality standards for those.

6.1. PIXELS AND SUB-PIXELS

A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels together appear as a single black pixel. Other combinations of lit and dark sub-pixels appear as single pixels of other colors.

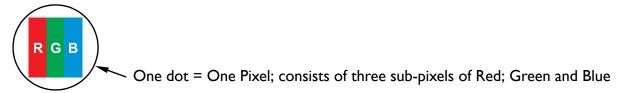


6.2. TYPES OF PIXEL DEFECTS + DOT DEFINITION

Pixel and sub-pixel defects appear on the screen in different ways. There are three categories of pixel defects and several types of sub-pixel defects within each category.

Dot definition = What is a defective "Dot"?

One or more defective, adjacent sub-pixel is defined as one "dot". The number of defective sub-pixels is not relevant to define a defective dot. This means that a defective dot can consist of one, two or three defective sub-pixels which can be dark or lit.



6.3. BRIGHT DOT DEFECTS

Bright dot defects appear as pixels or sub-pixels that are always lit or "on". These are the examples of bright dot defects:

G B	P	w
One lit red, green or blue sub-pixel	Two adjacent lit sub-pixels: - Red + Blue = Purple - Red + Green = Yellow - Green + Blue = Cyan (Light Blue)	Three adjacent lit sub-pixels (one white dot)

6.4. DARK DOT DEFECTS

Black dot defects appear as pixels or sub-pixels that are always dark or "off". These are the examples of black dot defects:

One dark dot	Two adjacent dark dots = I pair of dark dots	Two dark dots, specifications define the minimum distance between dark dots

6.5. PROXIMITY OF PIXEL DEFECTS

Because pixel and sub-pixels defects of the same type that are nearby one another may be more noticeable, Philips also specifies tolerances for the proximity of pixel defects. In the table below you can find specifications about:

- Allowed amount of adjacent dark dots = (adjacent dark dots = I pair of dark dots)
- · Minimum distance between dark dots
- Total no. of all defective dots

6.6. PIXEL DEFECT TOLERANCES

In order to qualify for repair due to pixel defects during the warranty period, a PDP / TFT panel in a Philips Plasma / LCD display must have pixel or sub-pixel defects exceeding the tolerances listed in the following table.

BRIGHT DOT EFFECT	ACCEPTABLE LEVEL
MODEL	BDL6531E
I lit sub pixel	I
BLACK DOT EFFECT	ACCEPTABLE LEVEL
I dark sub pixel	10
TOTAL DOT DEFECTS OF ALL TYPES	10

Note: * 1 or 2 adjacent sub pixel defects = 1 dot defect

7. CLEANING AND TROUBLESHOOTING

7.1. 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
 air being expelled 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 sprays, solvents and thinners.

Cabinet Cleaning Instructions

- If the cabinet becomes dirty, wipe 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, or 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 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.

7.2. TROUBLESHOOTING

Symptom	Possible Cause	Remedy
No picture is displayed	I. The power cord is disconnected.	I. Plug in the power cord.
	2. The main power switch on the back of the display is not switched on.	2. Make sure the power switch is switched on.3. Connect a signal connection to the display.
	3. The selected input has no connection.	
	4. The display is in standby mode with VGA.	
Interference displayed on the display or audible noise is heard	Caused by surrounding electrical appliances, traffic 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	The signal cable is not connected properly.	I. Make sure that the signal cable is attached firmly.
	2. The input signal is beyond the capabilities of the display.	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	The zoom mode is not correctly set.	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 and sound inputs are correctly connected.
Can see picture but no sound is heard	I. Improperly connected source signal cable.	I. Make sure that both video inputs and sound inputs are correctly connected.
	2. Volume is turned all the way down.	2. Use VOL UP/VOL DOWN button to
	3. MUTE is turned on.4. No external speaker connected.	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.

8. TECHNICAL SPECIFICATIONS

Display

ltem	Specifications
Screen Size (Active Area)	64.5" LCD
Aspect ratio	16:9
Number of pixels	1920 (H) × 1080 (V)
Pixel pitch	0.744 (H) × 0.744 (V) [mm]
Displayable colors	I.07B colors
Brightness (typical)	500 cd/m ²
Smart Contrast	20000:1
Contrast ratio (typical)	5000:I
Viewing angle	178 degrees

In/Out Terminals

	ltem	Specifications
		12W (L) + 12W (R) [RMS]/8Ω
Speaker Output	Internal Speaker	I Way I Speaker System
		82 dB/W/M/160 Hz ~ 13 KHz
Audio Output	RCA Jack x I	0.5V [rms] (Normal)/ 2 Channel (L+R)
Audio Input	RCA Jack x 2	0.5V [rms] (Normal)/ 2 Channel (L+R)
RS232C	D-Sub Jack x 2 (9 pin)	TXD + RXD (I:I)
		Digital RGB: TMDS (Video + Audio)
HDMI Input	HDMI Jack x I (Type A)	MAX: Video - 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
		Audio - 48 KHz/ 2 Channel (L+R)
DVI-D Input	DVI-D jack x I	Digital RGB: TMDS (Video)
		Analog RGB: 0.7V [p-p] (75 Ω), H/CS/V: TTL (2.2k Ω), SOG: IV [p-p]
RGB Input	D-Sub Jack x I (15 pin)	(75Ω)
NGB Iliput		MAX: 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
	3.5mm Mini-jack x I	Audio: 0.5V [rms] (Normal)/2 Channel (L+R)
		Analog RGB: 0.7V [p-p] (75 Ω), H/CS/V: TTL (2.2k Ω), SOG: IV [p-p]
RGB Output	D-Sub Jack x I (15 pin)	(75Ω)
		MAX: 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
Component Input	RCA Jack x I	Y: IV [p-p] (75Ω), Pb: 0.7V [p-p] (75Ω), Pr: 0.7V [p-p] (75Ω)
Component input	NCA jack X 1	MAX: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
S-Video Input	Mini DIN lack v I (4 sin)	Y: IV [p-p] (75Ω), C: 0.286V [p-p] (75Ω) [NTSC]
3- video iliput	Mini DIN Jack x I (4 pin)	Y: IV [p-p] (75 Ω), C: 0.300V [p-p] (75 Ω) [PAL/SECAM]
Video Input	BNC Jack x I	Video: IV [p-p] (75Ω) [NTSC/PAL/SECAM]
Video Output	BNC Jack x I	Video: IV [p-p] (75Ω) [NTSC/PAL/SECAM]

General

ltem	Specifications
Power Supply	AC 100V ~ 240V, 50/60 Hz
Power Consumption (Max)	500W

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Dimension [W x H x D mm]	
With Stand	1523.6 × 1025.7 × 421.7 mm
Without Stand	1523.6 x 891.6 x 124.8 mm
Weight	
With Stand	56.7 Kg
Without Stand	54 Kg

Environmental Condition

	ltem	Specifications
Temperature	Operational	0 ~ 40°C
	Storage	-20 ~ 60°C
Humidity	Operational	20 ~ 80% RH (No condensation)
	Storage	5 ~ 95% RH (No condensation)
Pressure	Operational	800 ~ 1100 hPa (Altitude: 0 ~ 4,000 m)
	Storage / Shipment	700 ~ 1100 hPa (Altitude: 0 ~ 15,000 m)

Internal Speaker

ltem	Specifications
Туре	I Way I Speaker
Input	12 W (RMS)
Impedance	8Ω
Output Sound Pressure	82 dB/W/M
Frequency Response	160 Hz ~ 13 KHz



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