BDL5585XL



www.publicsignagesolutions.philips.com

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 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 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 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 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 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 unit 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, we strongly recommend using 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 the unit will display 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" 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.



If your display does not operate normally, having followed the instructions set out in this document, please contact a technician or your local service center.

Read and follow these instructions when connecting and using your 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.
- When turning off the display by detaching the 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 "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 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 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 unit 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 (computers, monitors, printers 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.

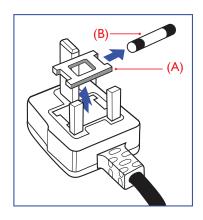
Pozostałe instrukcje bezpieczeństwa

- 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")

- 1. 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 producing 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 13A 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:

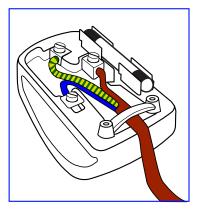
BLUE - "NEUTRAL" ("N")

BROWN - "LIVE" ("L")

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

- I. The GREEN AND YELLOW wire must be connected to the terminal in the plug which is marked with the letter "E" or by the Earth symbol or \downarrow coloured GREEN or GREEN AND YELLOW.
- 2. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
- 3. 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	ī害物质或元	素	
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
	(Pb)	(Hg)	(Cd)	(Cr 6 ⁺)	(PBB)	(PBDE)
外壳	0	0	0	0	0	0
液晶面板	Х	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)	x	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 SJ/TI 1363-2006 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 SJ/TII363-2006 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 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 the 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 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.



As an ENERGY STAR[®] Partner, MMD has determined that this product meets the ENERGY STAR[®] guidelines for energy efficiency.

TABLE OF CONTENTS

- I. UNPACKING AND INSTALLATION
 - I.I. UNPACKING
 - I.2. PACKAGE CONTENTS
 - I.3. INSTALLATION NOTES
 - I.4. MOUNTING THE DISPLAY
- 2. PARTS AND FUNCTIONS
 - 2.1. REAR VIEW
 - 2.2. INPUT/OUTPUT TERMINALS
 - 2.3. REMOTE CONTROL
 - 2.3.1. GENERAL FUNCTIONS
 - 2.3.2. INSERTING THE BATTERIES IN THE REMOTE CONTROL
 - 2.3.3. OPERATING RANGE OF THE REMOTE CONTROL
- 3. CONNECTIONS TO EXTERNAL EQUIPMENT
 - 3.1. USING THE CABLE RETAINER
 - 3.2. USING THE SWITCH COVER
 - 3.3. CONNECTING EXTERNAL EQUIPMENT (DVD/VCR/VCD)
 - 3.3.1. USING COMPONENT VIDEO INPUT
 - 3.3.2. USING HDMI INPUT
 - 3.4. CONNECTING A PC
 - 3.4.1. USING VGA INPUT
 - 3.4.2. USING DVI INPUT
 - 3.4.3. USING HDMI INPUT
 - 3.4.4. USING DISPLAY PORT INPUT
 - 3.4.5. USING a DVI-D Out to HDMI IN connection
 - 3.5. EXTERNAL AUDIO CONNECTION
 - 3.5.1. CONNECTING EXTERNAL SPEAKERS
 - 3.5.2. CONNECTING EXTERNAL AUDIO DEVICE
 - 3.6. CONNECTING ANOTHER BDL5585XL DISPLAY
- 4. OSD MENU
 - 4.1. NAVIGATING THE OSD MENU
 - 4.1.1. NAVIGATING THE OSD MENU USING THE REMOTE CONTROL
 - 4.1.2. NAVIGATING THE OSD MENU USING THE DISPLAY'S CONTROL BUTTONS
 - 4.2. OSD MENU OVERVIEW
 - 4.2.1. Picture MENU
 - 4.2.2. Screen MENU
 - 4.2.3. Audio MENU
 - 4.2.4. Configuration | MENU
 - 4.2.5. Configuration 2 MENU
 - 4.2.6. Advanced MENU
 - 4.2.7. Firmware update MENU
- 5. INPUT MODE
- 6. PIXEL DEFECT POLICY
 - 6.1. PIXELS AND SUB-PIXELS
 - 6.2. TYPES OF PIXEL DEFECTS + DOT DEFINITION
 - 6.3. BRIGHT DOT DEFECTS

- 6.4. DARK DOT DEFECTS
- 6.5. PROXIMITY OF PIXEL DEFECTS
- 6.6. PIXEL DEFECT TOLERANCES
- 6.7. MURA
 - 6.7.1. HOW TO SPOT MURA
 - 6.7.2. HOW TO AVOID MURA
- 7. CLEANING AND TROUBLESHOOTING
 - 7.1. CLEANING
 - 7.2. TROUBLESHOOTING
- 8. TECHNICAL SPECIFICATIONS

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Specifications are subject to change without notice.

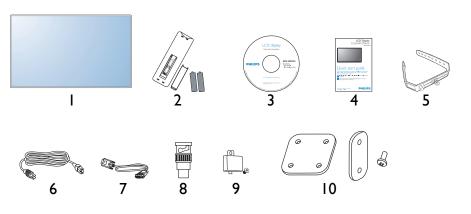
I. UNPACKING AND INSTALLATION

I.I. UNPACKING

- This product is packed in a carton, together with the standard accessories.
- All 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.
- Since the display panel 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.

I.2. PACKAGE CONTENTS

Verify that you received the following items with your package content:



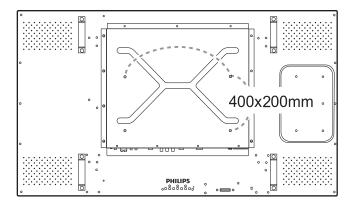
- I. LCD display
- 2. Remote control with batteries
- 3. CD-ROM (EDFU and SICP)
- 4. Quick Start Guide
- 5. Cable retainer (x 3)
- 6. Power cord
- 7. VGA cable
- 8. BNC-to-RCA adapter (x 3)
- 9. Main power switch cover
- 10. Corner alignment bracket and screws
- The supplied accessories will be suitable for your region, and may differ from those illustrated.
- 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 unit needs to be shipped to another location.
- External speakers and table stands are offered as optional extras, and therefore not included with your display.

1.3. INSTALLATION NOTES

- The product should be installed on a flat surface to avoid tipping. Maintain a distance of at least 6cm between the back of the display and the wall for proper ventilation. Avoid installing the unit 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.

I.4. MOUNTING THE DISPLAY

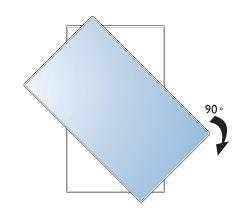
Wall mounting holes



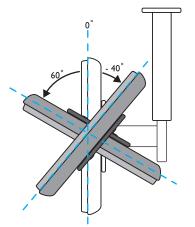
Notes:

- M6 (10mm) screws (with 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. 34 kg (75.0 lb) without stands).

Allowable tilting angle in Portrait Mode



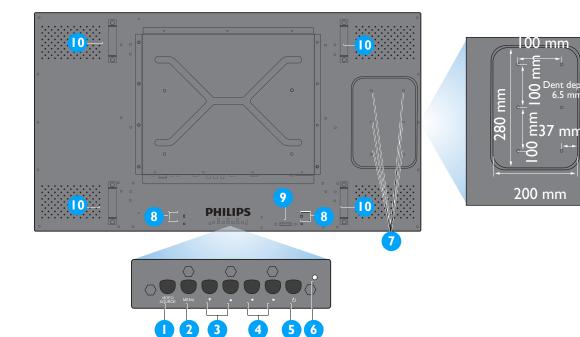
Note: The AC IN/OUT socket should be on top of all connectors when rotating your display.



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. REAR VIEW



I. 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 \blacktriangle and \checkmark 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 into standby mode.

6. Power indicator

Indicates the operating status of the unit:

- 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

Screw holes for the Smart Insert (for integration of a small form factor PC). (Maximum load: 2kg)

8. Cable retainer installation holes

Install the cable retainer using these holes.

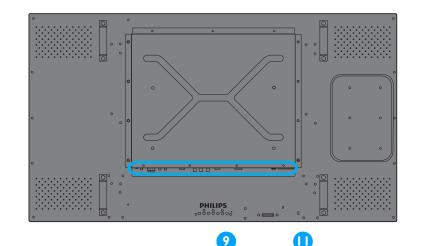
9. Remote control sensor, ambient light sensor and power indicator

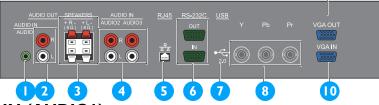
- Receives command signals from the remote control.
- Detects the ambient lighting conditions around the display.
- Indicates the operating status of the unit:
 - lights green when the display is turned on
 - lights red when the display is in standby mode
 - blinks red when the display enters DPMS mode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

10. Carrying handle

Use these handles when lifting or moving your display.

2.2. **INPUT/OUTPUT TERMINALS**





I. AUDIO IN (AUDIOI)

Connects to the audio output of a computer.

2. AUDIO OUT R/L

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

3. SPEAKERS R/L

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

4. AUDIO IN (AUDIO2/AUDIO3)

Connects to the audio output of an AV device.

5. RI45

Connects to the RI45 port on your Ethernet or router.

6. RS-232C (IN/OUT)

RS232C network connection input/output for the use of **I5. IR (OUT/IN)** loop through function.

7. USB

Connects to a USB flash drive (for firmware updates and 16. Main power switch display cloning only).

8. YPbPr

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

9. VGA OUT

Outputs the VGA signal from the **VGA IN** jack.

10. VGA IN

Connects to the VGA output of a PC or media player.

115

HDMI IR

([4)

II. DVI-D OUT

 $\square 2$

13

Outputs the DVI-D signal from the **DVI-D IN** jack.

12. DVI-D IN

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

13. DISPLAY PORT

Connects to a Display port compatible device.

14. HDMI

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

For use with an IR Extender - to ensure better responsiveness from the remote control.

Press to switch the main power on/off.

17. AC IN (4.0 A)

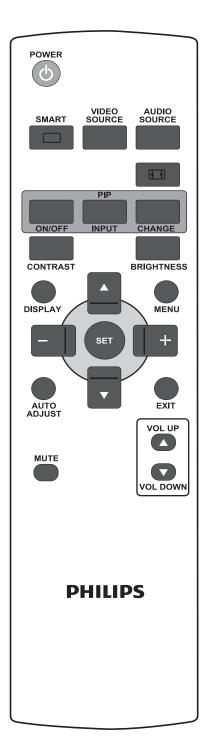
Connects the supplied power cord to the wall outlet.

18. AC OUT (1.5 A)

Can be used to power an external media device.

2.3. REMOTE CONTROL

2.3.1. GENERAL FUNCTIONS



Both the IR and RF remote controls can be used for operating the display. Select **IR** or **RF** in the **Advanced** > **Remote control selection** menu according to the remote you wish to use.

Note: The descriptions in this section is about the IR remote control which is the standard accessory in your shipping package. The RF remote control is an optional accessory.

POWER button

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

SMART

SMART button

To select smart picture mode from:

- Highbright: for moving images such as Video
- Standard: for images (factory setting)
- sRGB: for text based images
- Cinema: for movies.
- User: create your own picture settings. This mode is automatically selected after you change the settings in the **Picture** menu.

VIDEO SOURCE

VIDEO SOURCE button

Press to open the video source selection menu and then press **UP/DOWN** to select a desired video signal.



AUDIO SOURCE button

Press to open the audio source selection menu and then press UP/DOWN to select a desired audio source.

E Picture format button

To switch screen aspect ratio between Full, Normal, Dynamic, Custom, Real, and 21:9.

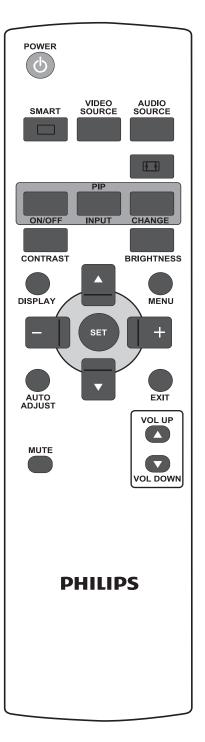
PIP (Picture In Picture) buttons

ON/OFF

Note: These PIP functions are not available with your display.

CONTRAST button

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



BRIGHTNESS button BRIGHTNESS

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



DISPLAY button

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

MENU button

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 within the OSD menu.
- To move the sub-picture right in "PIP" mode.

MINUS button

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

SET button

To activate the changed settings inside the OSD menu.



AUTO ADJUST button

Note: For VGA input only.

To execute the **Auto adjust** function.

EXIT button FXIT

To return to the previous OSD menu.

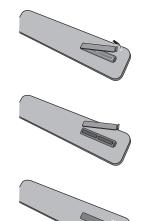
MUTE **MUTE** button

To turn the mute function on/off.

VOL UP **VOL UP** button

To increase the audio output level.





2.3.2. 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.

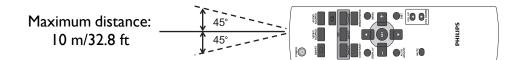
Notes:

- Do not mix battery types, e.g. alkaline and manganese.
- It is not recommended to use rechargeable batteries.

2.3.3. OPERATING RANGE OF THE REMOTE CONTROL

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

Use the remote control within a maximum distance of about 10 m/32.8 ft perpendicular to the display's remote control sensor and within a maximum angle of 45 degrees.

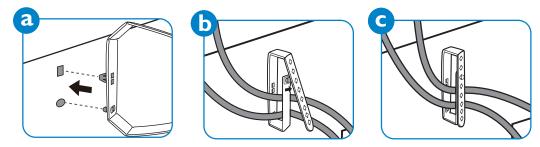


Notes:

- The effective range declines with the increase of distance and angle.
- Because this is a zero bezel display, the IR sensor is placed at the back of the unit. To optimize the functionality of the IR remote, we suggest the use of an optional IR extender. Please consult your dealer for more details.
- 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.

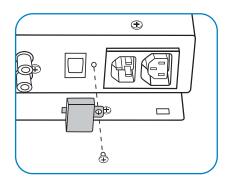
3. CONNECTIONS TO EXTERNAL EQUIPMENT

3.1. USING THE CABLE RETAINER



3.2. USING THE SWITCH COVER

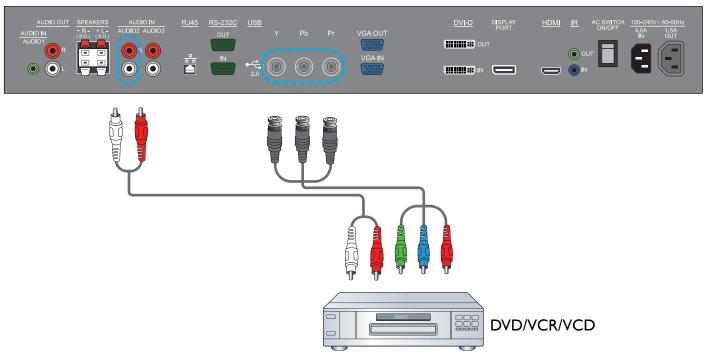
You can use the switch cover to prevent the monitor from being turned on or off accidentally.



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

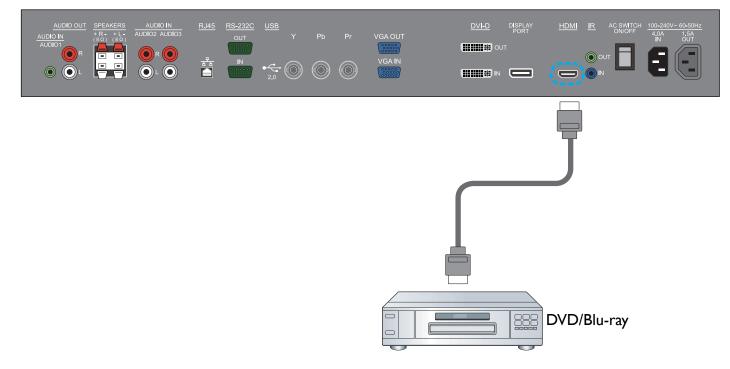
3.3.1. USING COMPONENT VIDEO INPUT

- I. Connect the BNC jacks of the device to the BNC jacks (YPbPr) 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.



3.3.2. USING HDMI INPUT

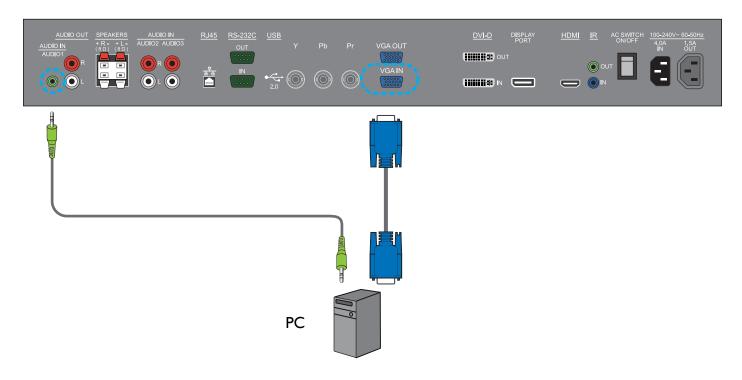
Connect the HDMI connector of the external device to the HDMI input of the display.



3.4. CONNECTING A PC

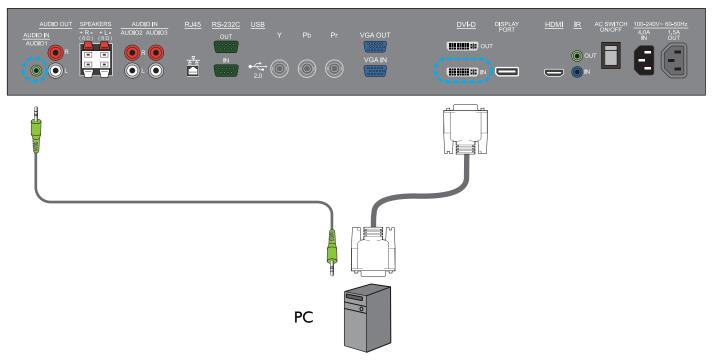
3.4.1. USING VGA INPUT

- I. Connect the I5-pin VGA connector of the PC to the VGA IN connector of the display.
- 2. Insert the audio cable to the AUDIO IN (AUDIOI) input of the display and connect to the corresponding PC connector.



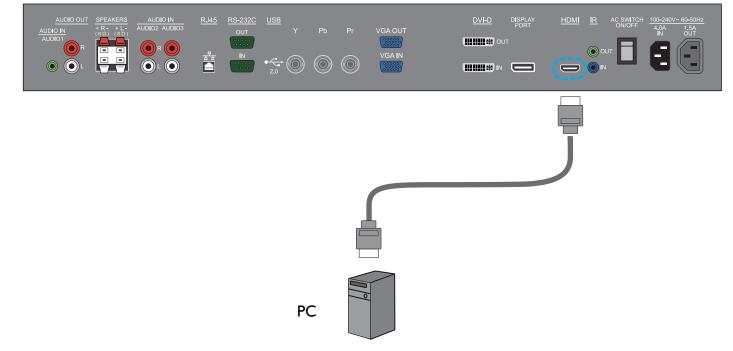
3.4.2. USING DVI INPUT

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



3.4.3. USING HDMI INPUT

I. Connect the HDMI connector of the PC to the HDMI connector of the display using an HDMI cable.

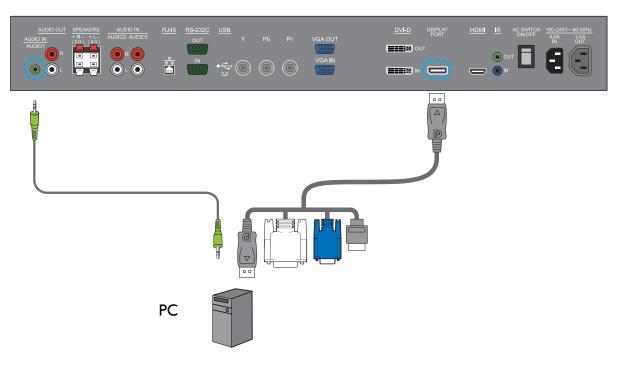


3.4.4. USING DISPLAY PORT INPUT

- I. Connect the Display port/DVI/VGA/HDMI connector of the PC to the DISPLAY PORT connector of the display using a Display port to Display port cable or Display port to DVI/VGA/HDMI adaptor.
- 2. Insert the audio cable to the AUDIO IN (AUDIOI) input of the display and connect to the corresponding PC connector.

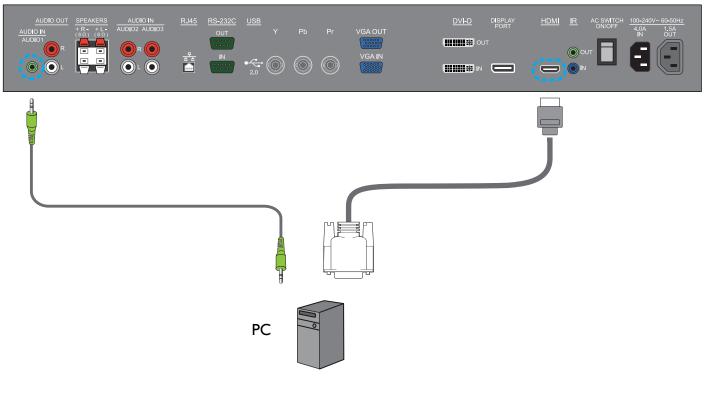
User Manual BDL5585XL

Note: The audio cable connection is not necessary if you are using the Display port to Display port cable or Display port to HDMI adaptor.



3.4.5. USING a DVI-D Out to HDMI IN connection

- I. Connect the DVI connector of the PC to the HDMI connector of the display using a DVI-HDMI cable.
- 2. Insert the audio cable to the AUDIO IN (AUDIOI) input of the display and connect to the corresponding PC connector.



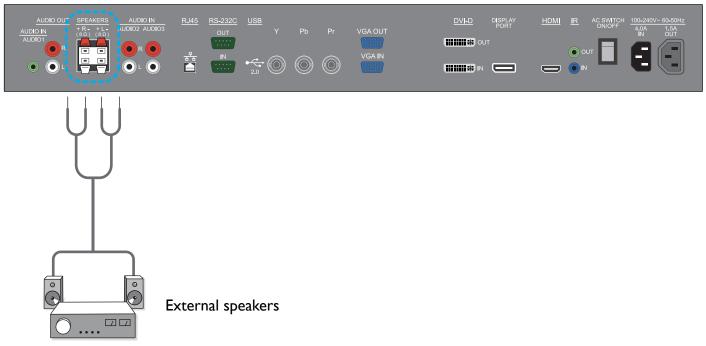
3.5. EXTERNAL AUDIO CONNECTION

3.5.1. CONNECTING EXTERNAL SPEAKERS

I. Connect the speaker wires to the external speaker (SPEAKERS) output of the display.

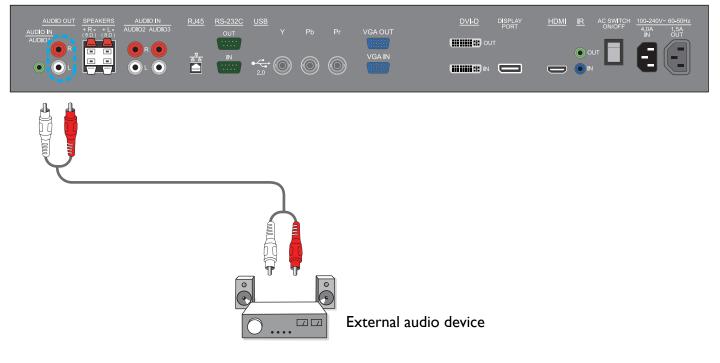
2. Turn on the unit.

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



3.5.2. 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.



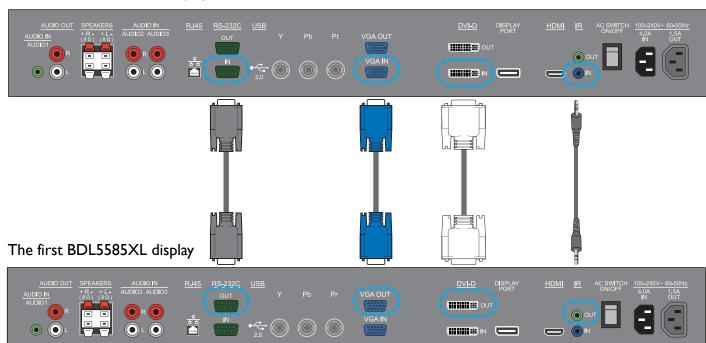
3.6. CONNECTING ANOTHER BDL5585XL DISPLAY

You can interconnect multiple BDL5585XL units to create a daisy-chain configuration for applications such as a video 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 an additional BDL5585XL unit. Note: You can connect up to 5 displays using the VGA OUT connectors.

- Connect the RS-232C OUT connector of the display to the RS-232C IN connector of an additional BDL5585XL unit.
- Connect the DVI-D OUT connector of the display to the DVI-D IN connector of an additional BDL5585XL unit. *Note:*
- You can connect up to 9 displays using the DVI-D OUT connectors.
- To ensure optimal image quality, we recommend using a DVI cable of no more than 2 metres in length.
- Connect the IR OUT connector of the display to the IR IN connector of an additional BDL5585XL unit.



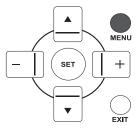
Additional BDL5585XL display

4. OSD MENU

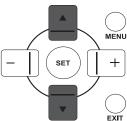
An overall view of the On-Screen Display (OSD) structure is shown below. This can be used as a reference for further adjustment of your display.

4.1. NAVIGATING THE OSD MENU

4.1.1. NAVIGATING THE OSD MENU USING THE REMOTE CONTROL



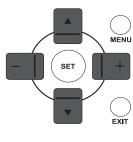
I. Press the **MENU** button on the remote control to display the OSD menu.



MENU

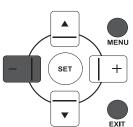
2. Press the **UP/DOWN** button to move the cursor to the item you want to adjust.

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 the **PLUS/MINUS** button to adjust settings. If there is a submenu, press the **PLUS** button to enter it.



5. Press the **MINUS/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.



0

- 2. Press the $\blacktriangle/\checkmark$ button to move the cursor to the item you want to adjust.
- 3. Press the **>** 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 ▶ 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

Picture	Brightness	
Ľ	Contrast	·
Screen	Sharpness	• IIIIIIIIIIIIIII
Audio	Black level	• • • • • • • • • • • • • • • • • • • •
	Noise reduction	• Off
Configuration1	Tint	· IIIIIIIIIIIIIIII
Configuration2	Color	·
Advanced option	Color temperature	• User
	Color control	Action
Firmware update	Light sensor	• Off
	Smart contrast	• Off
		T

Brightness

Note: This function is not available when Smart contrast, Light sensor or Brightness under Panel saving is turned on. Disable these functions to access Brightness from the OSD menu.

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 change image contrast. 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 image brightness. Use the **PLUS/MINUS** button to adjust.

Noise reduction

Note: For Component input with interlaced video only.

Adjust to remove the noise in the image. You can select a suitable noise reduction level. Use the **UP/DOWN** button to make selection.

Tint

Note: For Component, and HDMI inputs with YUV color space only. (YUV is a color space typically used as part of a color image pipeline.)

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 Component, and HDMI inputs with YUV color space only. (YUV is a color space typically used as part of a color image pipeline.)

Adjust 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. A lower color temperature will have a reddish tint, whilst a higher color temperature gives off a more bluish tint.

Use the **UP/DOWN** 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 UP/DOWN button to select R, G or B, and press the PLUS/MINUS button to adjust.

Light sensor

Note: This function is not available when Smart contrast or Brightness under Panel saving is turned on. Disable these functions to make Light sensor accessible from the OSD menu.

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

Use the **UP/DOWN** button to make selection.

Smart contrast

Note: This function is not available when Light sensor or Brightness under Panel saving is turned on. Disable these functions to make Smart contrast accessible from the OSD menu.

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

Use the **UP/DOWN** button to make selection.

Smart picture

Select a smart picture mode from:

- Standard: for images (factory setting)
- Highbright: for moving images such as Video
- sRGB: for text based images
- Cinema: for movies.
- User: create your own picture settings. This mode is automatically selected after you change the settings in the **Picture** menu.

Use the **UP/DOWN** button to make selection.

Video source

Select a video input source.

Use the **UP/DOWN** button to toggle between

- VGA DVI-D
- Component
 Display port
- HDMI

Picture reset

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

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

Picture	H position	
	V position	· IIIIIIIIIIIIIIIIIIIIII
Screen	Clock	· IIIIIIIIIIIIIIIIIIII
Audio	Clock phase	•
	Zoom mode	• Full
Configuration1	Custom zoom	Action
Configuration2	Screen reset	Action
Advanced option		
Firmware update		

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 press the **MINUS** button 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 press the **MINUS** button 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 press the MINUS button 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

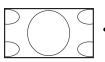
The pictures you receive may be transmitted in 16:9 format (widescreen) or 4:3 format (conventional screen). 16:9 pictures sometimes have a black band at the top and bottom of the screen (letterbox format). This function allows you to optimize the picture display on screen. The following zoom modes are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



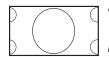
• Full - This mode restores the correct proportions of pictures transmitted in 16:9 using the full screen display.



• 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. Note: This mode does not support deinterlacing. The screen may flicker when displaying interlaced video.
- **Real** This mode displays the image pixel-by-pixel on screen without scaling the original image size.



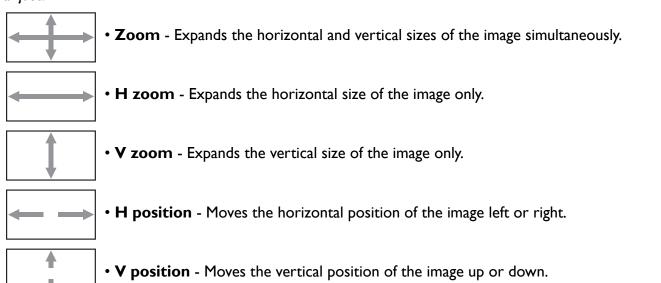
• 21:9 - The picture is enlarged to 21:9 format. This mode is recommended when displaying pictures that have black bands at the top and bottom (letterbox format).

Note: This mode does not support deinterlacing. The screen may flicker when displaying interlaced video.

Custom zoom

Note: This item is only available when Zoom mode is set to Custom.

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



Screen reset

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

Use the **PLUS/MINUS** button to make your selection. Select **Reset** 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

Picture	Speaker	Internal
Filler -	Volume	• 1111111111111111
Screen	Balance	·
Audio	Treble	· !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
	Bass	• 1111111111111111
PIPConfiguration1	Mute	• Off
Configuration2	Audio source	Audio 1
Advanced option	Audio reset	Action
Firmware update		

Speaker

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

Use the **UP/DOWN** button to toggle between

- Internal
 External
- Line-out

Volume

Adjust to increase or decrease the audio output level. Use the **PLUS/MINUS** button to adjust.

Balance

Adjust to increase or decrease the audio balance level. Use the **PLUS/MINUS** button to adjust.

Treble

Adjust to increase or decrease the treble. Use the **PLUS/MINUS** button to adjust.

Bass

Adjust to increase or decrease the bass. Use the **PLUS/MINUS** button to adjust.

Mute

Turns the mute function on/off. Use the **UP/DOWN** button to make selection.

Audio source

Select the audio input source – toggle between audio input, DISPLAY PORT, and HDMI.

Audio 3



Use the UP/DOWN button to toggle between

• Audio I	• Audio 2	 Display port
	RETURN TO TH	IE CONTENTS

Audio 3 HDMI

Audio reset

Reset all settings in the Audio menu.

Use the **PLUS/MINUS** button to make selection. Select **Reset** 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. Configuration | MENU

Picture	Switch on state	Lá	ast status
	Auto adjust		
Screen	Power save	• A	ction
Audio	Language	• Ei	nglish
	Panel saving	• A	ction
Configuration1	Network settings	• A	ction
Configuration2	Configuration reset	• A	ction
Advanced option	Factory reset	• A	ction
Firmware update			

Switch on state

Set the display to turn on or remain off when the power cord is connected to a wall outlet.

Use the **UP/DOWN** button to toggle between

- Last status The display will return to the previous power status (on/off/standby) when removing and replacing the power cord.
- Forced on The display will turn on when the power cord is connected to a wall outlet.
- Power off The display will remain off when the power cord is connected to a wall outlet.

Note: If you unplug the power cord and re-plug within 7 seconds, the display will not work under the selected setting.

Auto adjust

Note: For VGA input only.

Use this function to automatically optimize the VGA image within the display. Press **SET** to adjust.

Power save

Set the display to reduce the power consumption.

Use the **UP/DOWN** button to toggle between

- PC 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 Component input after three successive cycles. Use the PLUS/MINUS button to make your selection.

Language

Select the language for the OSD menu.

Use the **UP/DOWN** button to select a language.

Panel saving

Choose to enable the panel saving functions to reduce the risk of the "image persistence". Use the **UP**/**DOWN** button to toggle between

 Cooling fan - Select Auto and the fan will turn on when the display gets to a certain level in order to expel hot air and cool the unit. Select On/Off to keep the fan on/off. Use the UP/DOWN button to make your selection.

Notes:

- When Auto is selected, the cooling fans will turn on when the temperature reaches 55°C (131°F) and will turn off when the temperature has decreased to 50°C (122°F).
- The display will shut down automatically if the temperature reaches 82°C (179.6°F) no matter what settings have been selected.

- Brightness Select On and the brightness of the image will be reduced to an appropriate level, 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 pixel position in four directions (up, down, left, and right). Use the **PLUS/MINUS** button to make selection (**Off-900** seconds from current time). The default time interval is 300 seconds. This helps to alleviate the issues of image sticking.

IMPORTANT: It is not recommended to keep a single static image displayed on your unit for long periods of time. This can cause image sticking, or ghost imaging, which will decrease the quality of your images. In some instances, ghost image damage can be permanent. To avoid such issues, we strongly recommend one of the following actions:

- Change the picture periodically
- Enable **Pixel shift** (See Pixel shift under Section 4.2.4.Configuration I MENU)
- Use a screen saver with changing images

Network settings

To set the display to connect to a local area network:

- I. Connect a RJ45 cable to the corresponding ports on the display and your LAN switch or router.
- 2. Enter the submenu of Network settings. You will see the OSD page similar to the following picture.

Ν	letwork settings	
	Network device name	PHL
	DHCP	Disable
	IP address	172 - 16 - 0 - 1
	Subnet mask	255 - 255 - 0 - 0
	Default gateway	0 - 0 - 0 - 0
	Login user name	admin
	Login password	0 0 0 0 0
	LAN control port	Disable
		[SET]
	Set 🔹 Adjust	EXIT Back MENU Quit

- 3. Use the UP/DOWN/PLUS/MINUS buttons to set the Network device name.
- 4. If you are in a DHCP environment, highlight **DHCP** and select **Enable**. Once selected, the **IP address**, **Subnet mask**, and **Default gateway** settings will be displayed.

If you are not in a DHCP environment, highlight **DHCP** and select **Disable**. Contact your ITS administrator for information on the **IP address**, **Subnet mask**, and **Default gateway** settings and enter it accordingly.

- 5. Make sure the information on the Login user name is displayed.
- 6. Use the **UP/DOWN/PLUS/MINUS** buttons to set **Login password**. The password is required when using a computer browser to log in.
- 7. To control the display with a computer browser, highlight LAN control port and select Enable.
- 8. To save the settings and return to the previous menu, highlight **Set** and press the **SET** button on the remote control.

Once you have the correct IP address for your display and the display is on or in standby mode, you can use any computer that is on the same local area network to control the display. Notes:

- You cannot control the display via the RS-232C connector when LAN control is in use.
- Currently most browsers are supported. However, if using Internet Explorer, only versions 7.0 or higher are supported.
- The screen shots in this manual are for reference only, and may differ from what is displayed on your screen.

1. Enter the address of the display in the address bar of your browser and press Enter. The Login page appears. Here is an example of the complete address: <u>http://172.16.0.1/html</u>.

🏉 Philips DS LAN Control - Windows Inte	met Explorer
🚱 🕞 🗸 🙋 http://172.16.0.1/html	×

2. Enter the same password you have set in the **Network settings** > **Login password** menu and press Login. If the password has not been set, enter the default "000000".

User Name	admin
Password	
	Login

3. The setting page appears.

• Power Setup: Allows you to manage the power status.

Note: Make sure the LAN control port in the Configuration 1 > Network settings menu is set to Enable if you would like to turn on the display from this web page.

	ີ້	
Power Setup	SICP version	
A/V Setup	SW version	
Configuration Setup	Sw version	
Tiling Setup	Power	⊛ On ⊘ Off
	Switch on state	⑦ Power off ● Force on ⑦ Last status
General Setup		
	Video source	•
	Smart power	⊙ Off ⊙ Medium

• A/V Setup: Provides various options for video and audio control.

Power Setup				
	Brightness	-	0	
A/V Setup	Contrast	-	0	+
Configuration Setup	Sharpness	-	0	+
Tiling Setup	-		0	+
General Setup	Color		U	
	Tint	-	0	
	Light sensor	◉ On ⊙ Off		
	Zoommode	-		
	Auto adjust			
	Auto detection	⊙ On ● Off		
	Volume	-	0	•
	Treble	-	0	•
	Bass	-	0	+

• Configuration Setup: Some frequently used settings are provided on this page for you to control the display.

- 1	D 6.		
_ [Power Setup	OSD mode	⊙ On ● Off
	A/V Setup	Input control	Apply
	Configuration Setup		
U		Keypad lock	O Lock Unlock
	I tling Setup	Remote lock	⊙ Lock
	General Setup	PIP control	Apply
		PIP input	
		PIP setting	⊙ On ● Off
		Operation hours	
		Serial no	
		Temperature	

• Tiling Setup: Allows you to arrange multiple displays in a video wall or matrix and define the position of each one.

Power Setup		
A/V Setup	H monitors	
Configuration Setup	V monitors	
Tiling Setup	Position	Apply
General Setup	Frame comp	⊙ On ● Off
	Tiling enable	⊙ On ⊛ Off

• General Setup: Changes the password settings.

Power Setup	Change Password for Webpage	
A/V Setup	Enter Old password	
Configuration Setup	Enter New password	
Tiling Setup		
General Setup	Confirm New password Apply	

Configuration reset

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

Use the **PLUS/MINUS** button to make selection. Select **Reset** and press **SET** to restore settings to factory preset values. Press **EXIT** to cancel and return to the previous menu.

Factory reset

Reset all settings in the **Picture**, **Screen**, **Audio**, **PIP**, **Configuration 1**, **Configuration 2**, and **Advanced option** menus, restoring them to factory preset values. Use the **PLUS/MINUS** button to make selection. Select **Reset** and press **SET** to restore settings to factory preset values. Press the **EXIT** button to cancel and return to the previous menu.

4.2.5. Configuration 2 MENU

Picture	OSD turn off	
	OSD mode	Landscape
Screen	Infomation OSD	• 0 Sec.
Audio	Sleep timer	• Off
	OSD H position	• 50
Configuration1	OSD V position	• 50
Configuration2	Monitor infomation	Action
Advanced option		
Firmware update		

OSD turn off

Set the period of time the OSD menu stays on the screen (from **5** to **120** seconds since the last key stroke) Use **PLUS/MINUS** 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 **UP/DOWN** 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 turn itself off to standby mode within a user-specified amount of time. (**Off-24** hours from current time)

Use the **UP/DOWN** 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 **UP/DOWN** button to adjust.

OSD V position

Adjust the vertical position of the OSD menu. Use the **UP/DOWN** button to adjust.

Monitor information

Shows the information about your display including internal temperature, hours of operation and firmware version being used.

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

4.2.6. Advanced option MENU

Picture	Input resolution	1366x768
F	Black level expansion	
Screen	Gamma selection	native
Audio	Scan mode	Over scan
	Scan converstion	Progressive
Configuration1	Film mode	•
Configuration2	IR control	Action
Advanced option	IR out	Disable
Advanced option	Remote control selection	• IR
Firmware update	Keyboard control	Action
	Tiling	Action

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 **UP/DOWN** to toggle between

• Auto	• 1024x768	• 280x768
• 1360x768	• 1366x768	

Black level expansion

Note: For 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 UP/DOWN to toggle between

• Off	• Low
-------	-------

Medium
 High

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 **UP/DOWN** button to toggle between
- 2.2
- Native

Scan mode

Note: For Component, and HDMI (video mode) inputs only.

• 2.0

Change the display area of the image.

Use the **UP/DOWN** 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 Component, and HDMI (video mode) inputs only.

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

Use the **UP/DOWN** 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 increases the chance of image retention.

Film mode

Note: For Component, and HDMI (video mode) inputs only.

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

Use the **UP/DOWN** 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 into DVD video signal format. Once this function is enabled, we recommend 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 BDL5585XL units are connected via RS232C cables.

Use the UP/DOWN button to toggle between

- Normal All units can be operated normally by the remote control.
- **Primary** Designate this display as the primary unit for remote control operation. Only this display will be operated by the remote control.
- **Secondary** Designate this display as the secondary unit. This display can not be operated by the remote control, and will only receive the control signal from the primary unit via the 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.

IR out

Select **Enable** to operate multiple units with one IR remote control. Point the remote control to the first display which IR OUT port connects to the second display's IR IN port, and the second display's IR OUT port connects to the third display's IR IN port, and so on.

Remote control selection

Select **IR** or **RF** according to the remote control you wish to use. You can use the RF remote to control multiple BDL5585XL units in a video wall.

Keyboard control

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

Use the **UP/DOWN** button to toggle between

- Lock Disable the keyboard.
- Unlock Enable the keyboard.

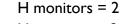
Tiling

Note: This function is not available when PIP is turned on. Disable PIP to make Tiling accessible from the OSD menu.

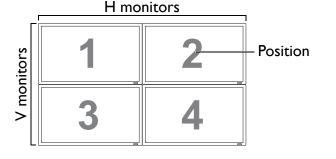
With this function you can create a single large screen matrix (display wall) that consists of up to 150 BDL5585XL displays (10 units on the vertical side and 15 units on the horizontal side). This requires you to connect each BDL5585XL unit in a daisy-chain configuration.

Example:

2 x 2 screen matrix (4 displays)

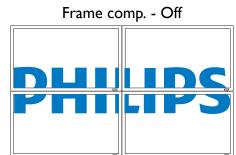


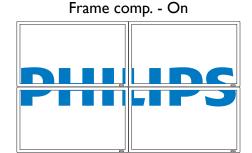
V monitors = 2



	5 x 5 screen matrix (25 displays)					
		H mo	onitors =	5		
		V mo	nitors =	5		
		Н	monito	rs		1
ſ	1	2	2 3 4 5-			
ors	6	7	8	9	10	
V monitors	11	12	13	14	15	
>	16	17	18	19	20	
	21	22	23	24	25	

- 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. Position is defined by the total number of displays in the video wall counting from the top, left hand display and counting horizontally. The number is then continued on the next row down, and the procedure is continued until the final display is reached. See examples above for further explanation.
- **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.





• 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.

• Switch on delay: Choose to enable or disable a sequence in turning on the screen matrix. If enabled, the display will turn on one horizontal matrix at a time starting from the top row.

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 Celsius.

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

Date and time

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

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: Please set 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 unit turns on and turns off, the days in a week it 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 display the signal from the HDMI input:

	Time							
	0:00	1:00 2:00 3:00 4:00 5:00 6	:00 7:00 8:00 9:00	10:00 11:00 12:00	13:00 14:00 15:00 16:00	017:0018:0019:0020:	0021:0022:002	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 **PLUS** button to open the submenu.

Schedule		
1 2 3 4 5 6 7	2011 03 25 Fri 10 32 43 On Off Input 	
▲▼ Set	Adjust SET Set EXIT Back MENU Qu	it

- 2. Press the **UP/DOWN** button to select schedule item #1 (**D** 1), then press **SET**. 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 **D** 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:

Schedule	2011 03 25 Fri 10 32 43 On Off Input 07 : 30 22 : 30 HDMI Every day
5	Mon XTue XWed Thu
6	Fri Sat Sun
7	Every week

11. 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.

Notes:

- 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.).
- Should 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 unit via the RS232C connection. Each display must have a unique ID number when multiple BDL5585XL units are connected. Each monitor's ID is defined by its position within the matrix – starting on the top row, working left to right. The top left display will have an ID of I. When you reach the end of the row, the next number will refer to the display one row down, starting at the left.

DDC/CI

Choose to turn **On** or **Off** the DDC/CI communication function. Select On for the SmartControl II software use.

Use the **UP/DOWN** button to make selection.

HDMI with One Wire

One Wire uses the HDMI CEC (Consumer Electronics Control) industry standard protocol to share functionality between connected devices and the display. To transfer system commands, you need to use an HDMI cable to connect the display to a device equipped with HDMI CEC. Select On in this menu and you can operate the main functionalities on your display and the connected device with one remote control. For instructions on how to use the One Wire function, please refer to the One Wire DFU on the accompanying CD ROM.

Notes:

- The One Wire-compliant device must be switched on and selected as the source.
- Philips does not guarantee 100% interoperability with all HDMI CEC devices.

Smart power

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

Use the **UP/DOWN** button to toggle between

Off
 • Medium

• High

Auto signal detection

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

- On Set the unit to display the image automatically once a signal is connected.
- Off Once a signal is connected, it can only be selected manually.

Use the **UP/DOWN** button to make selection.

Settings cloning

Select Monitor to USB or USB to Monitor to transfer all the OSD settings between the display and a USB flash drive.

Advanced option reset

Reset all settings in the **Advanced option** menu.

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

4.2.7. Firmware update MENU



From USB

To update the display firmware:

- I. Take a USB flash drive and make sure it is formatted with FAT32.
- 2. Create a folder and name it "fupgrade" on the USB flash drive.
- 3. Obtain the firmware named "usb_rootfs" and put it into the folder "fupgrade".
- 4. Plug the USB flash drive into the USB port on the display.
- 5. Highlight Action in the Firmware update > From USB menu and press SET.
- 6. Select Yes to start update. A status message appears.
- 7. After the update process completes, the display will re-start automatically.

Notes:

- The display does not support USB flash drives with NTFS format.
- Do not turn off the display during the update process. It may damage the display if you do.
- If the error message appears on the Firmware Update OSD menu, please make sure that:
 - the USB flash drive is properly plugged in.
 - the folder name (fupgrade) and file name (usb_rootfs) are correct.
 - the model name shown on the OSD menu is the same as the display's.
 - the firmware version is different from the old one. The display will not be updated if you are using the same version.

5. INPUT MODE

VGA Resolution

Standard	Active R	esolution	Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode
Resolution	H Pixels	V Lines		FIXEI Nate	Aspect Ratio	Stand for Prode
			60 Hz	25.175 MHz		
VGA	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
	000	(00	60 Hz	40 MHz	4.2	Sup on V/C A
SVGA	800	600	75 Hz	49.5 MHz	4:3	Super VGA
VCA	1024	768	60 Hz	65 MHz	4.2	Evended Creshie Arres
XGA	1024	/68	75 Hz	78.75 MHz	_ 4:3	Extended Graphic Array
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		Tixel Nate	Aspect Natio	Stand for Flode
480i	720	480	29.97 Hz	13.5 MHz	4:3	Modified NTSC Standard
480p	720	100	59.94 Hz	27 MHz		riodilled in i SC Stalidard
576i	720	480	25 Hz	13.5 MHz	4:3	Modified PAL Standard
576р	720	00	50 Hz	27 MHz	- т.ј	Modilled FAL Standard

HDTV Resolution

Standard	Active R	esolution	Refresh Rate	Pixel Rate	Aspect Ratio	Stand for Mode	
Resolution	H Pixels	V Lines	Refresh Nate	Tixer Nace	Aspect Natio	Stand for Flode	
720p	1280	720	50 Hz	74.25 MHz	16:9	Normally DVB Mode	
7200	1200	720	60 Hz	77.2311112	10.7	Normany Dy Bridde	
1080i	1920	1080	25 Hz	74.25 MHz	16:9	Normally ATSC Mode	
10001	1720	1000	30 Hz	77.2311112	10.7	Normally Arse hode	
1080p	1920	1080	50 Hz	148.5 MHz	16:9	Normally ATSC Mode	
1000p	1720	1000	60 Hz		10.7	Normally Arse hode	

• PC text quality is optimum in HD 1080 mode (1920 x 1080, 60Hz).

• Your PC monitor may appear differently 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 this happens, press the **INPUT** button to enter the video mode. Also, make sure that the PC is connected.
- If horizontal synchronous signals seem irregular in RGB mode, check PC power saving mode or cable connections.
- The display settings table complies with IBM/VESA standards, and based on analog input.

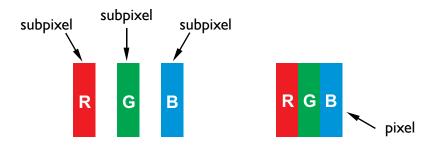
6. PIXEL DEFECT POLICY

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 LCD display 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 BDL5585XL 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.

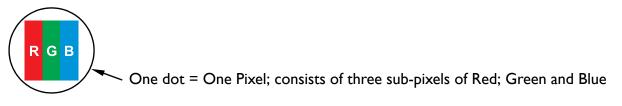


6.2. TYPES OF PIXEL DEFECTS + DOT DEFINITION

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.

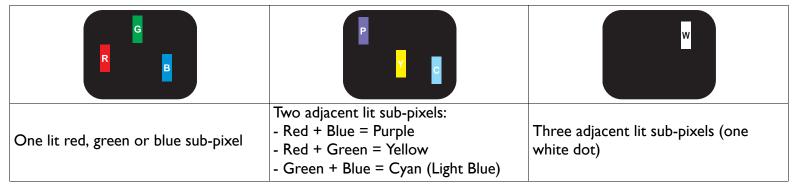
Dot definition = What is a defective "Dot"? :

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.



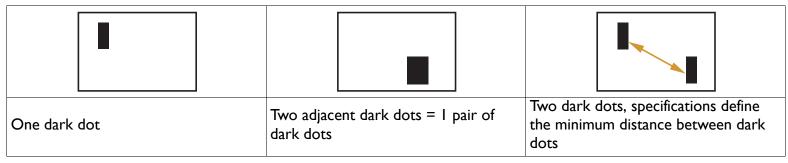
6.3. BRIGHT DOT DEFECTS

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



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:



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 LCD display must have pixel or sub-pixel defects exceeding the tolerances listed in the following table.

BRIGHT DOT EFFECT	ACCEPTABLE LEVEL
MODEL	BDL5585XL
I lit sub pixel	3
BLACK DOT EFFECT	ACCEPTABLE LEVEL
I dark sub pixel	10
TOTAL DOT DEFECTS OF ALL TYPES	13

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

6.7. MURA

Dark spots or patches may occasionally appear on some liquid crystal display (LCD) panels. This is known within the industry as Mura, which is a Japanese term for "unevenness." It is used to describe an irregular pattern or area in which uneven screen uniformity appears under certain conditions. Mura is a result of the deterioration of the liquid crystal alignment layer and is most commonly caused by long-term operation under high ambient temperatures. It is an industry-wide phenomenon and Mura is not repairable. It is also not covered by our warranty terms.

Mura has been around since the introduction of LCD technology and with screens getting bigger and in operation 24/7, many displays are running in low light conditions. This all adds to the possibility of Mura affecting displays.

6.7.1. HOW TO SPOT MURA

There are many symptoms of Mura and also multiple causes. Several of these are listed below:

- Impurities or foreign particles in the crystal matrix
- Uneven distribution of LCD matrix during manufacturing
- Non-uniform luminance distribution of the backlight
- Panel assembly induced stress
- Flaws within the LCD cells
- Thermal induced stress high temperature operation over long periods of time

6.7.2. HOW TO AVOID MURA

Although we can not guarantee the complete eradication of Mura every time, in general the appearance of Mura can be minimized by these methods:

- Lower the backlight brightness
- Use a screen saver
- Reduce the ambient temperature around the unit

7. CLEANING AND TROUBLESHOOTING

7.1. CLEANING

Caution When Using the Display

- Do not place 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	 The power cord is disconnected. The main power switch on the back of the display is not switched on. The selected input has no connection. The display is in standby mode with VGA. 	 Plug in the power cord. Make sure the power switch is switched on. Connect a signal connection to the display.
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. The input signal is beyond the capabilities of the display. 	 Make sure that the signal cable is attached firmly. 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 inputs and sound inputs are correctly connected.
Can see picture but no sound is heard	 Improperly connected source signal cable. Volume is turned all the way down. Mute is turned on. No external speaker connected. 	 Make sure that both video and sound inputs are correctly connected. Use VOL UP/VOL DOWN button to hear sound. Switch Mute off by using the MUTE button. 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 screen 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. Refer to 4.2.4.Configuration I MENU for further details.

8. TECHNICAL SPECIFICATIONS

Display

ltem	Specifications
Screen size	55" (1397 mm)
Viewable size	1209.6 (H) x 680.4 (V) mm/47.6 (H) x 26.8 (V) inch
Aspect ratio	16:9
Number of pixels	1920 (H) × 1080 (V)
Pixel pitch	0.63 (H) x 0.63 (V) mm
Displayable colors	16.7M colors
Brightness	700 cd/m ²
Smart contrast	10000:1
Contrast ratio (typical)	3000:1
Viewing angle	178 degrees
Response time	Typ. 8 msec, Max.15 msec
Color gamut	69%
Frequency	Horizontal: 50 /67.5 - 72 KHz
Frequency	Vertical: 48/60 -62 Hz
Pixel clock	130~155 MHz

Input Terminals

lt	em	Specifications
Audio Input	RCA Jack x 2	0.5V [rms] (Normal)/2 Channel (L+R)
RS232C Input	D-Sub Jack x I (9 pin)	TXD + RXD (I:I)
	HDMI Jack x 1 (Type A) Version 1.3	Digital RGB: TMDS (Video + Audio)
HDMI Input		MAX: Video - 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
		Audio - 48 KHz/ 2 Channel (L+R)
DVI-D Input	DVI-I jack	Digital RGB: TMDS (Video)
VGA Input	D-Sub Jack x I (15 pin)	Analog RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: IV [p-p]
		(75Ω)
		MAX: 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
	3.5mm Mini-jack x I	Audio: 0.5V [rms] (Normal)/2 Channel (L+R)
Component Input	BNC Jack x I	Y: IV [p-p] (75Ω), Pb: 0.7V [p-p] (75Ω), Pr: 0.7V [p-p] (75Ω)
		MAX: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
Display port Input	Display port Jack x I Version 1.1a,	Digital TMDS
IR Input	Jack Audio Green/Blue D3.6 ST	Digital Signal
PC audio Input	Jack Audio	Analog Signal

Control Terminals

	ltem	Specifications
USB	SKT USB2.0 A RT4P	Digital Signal
RJ45	Jack RJ45 W/LED I	Digital Signal

Output Terminals

	ltem	Specifications
		12W (L) + 12W (R) [RMS]/8Ω
Speaker Output		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)
RS232C Output	D-Sub Jack x I (9 pin)	TXD + RXD (I:I)
DVI-D Output	DVI-I jack	Digital RGB: TMDS (Video)
		Analog RGB: 0.7V [p-p] (75Ω), H/CS/V: TTL (2.2kΩ), SOG: IV [p-p]
VGA Output	D-Sub Jack x I (15 pin)	(75Ω)
		MAX: 720p, 1080p, 1920 x 1080/60 Hz (WUXGA)
IR Output	Jack Audio Green/Blue D3.6 ST	Digital Signal

General

ltem	Specifications
Power Supply	AC 100V ~ 240V, 50-60 Hz
Power Consumption (Max)	250W
Display Dimension [W x H x D]	
Without Stand (mm/inch)	1215.3 x 686.1 x 126.3/47.8 x 27 x 5
Gross Weight (kg/lbs)	39/86.0
Net Weight (kg/lbs)	34/75.0
Regulatory	CB, EMC (CE/C-Tick), EPA, EuP, EMF, CCC, CECP, CEL, UL/cUL, EMC (FCC/ICES003), E-Star, GOST, WEEE
Accessories	CD user's Manual, QSG, Power cord, VGA Cable, BNC-to-RCA adapter (x3), Cable retainer (x3), Remote control with batteries, Main switch cover, Corner alignment bracket and screws

Environmental Condition

	ltem	Specifications
Temperature	Operational	0 ~ 40°C/32 ~ 104°F
	Storage	-25 ~ 65°C/ -13 ~ 149°F
Humidity	Operational	10 ~ 90% RH (No condensation)
	Storage	5 ~ 90% 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	R/L Speaker
Input	12 W (RMS)
Impedance	8Ω
Output Sound Pressure	82 dB/W/M
Frequency Response	80 Hz ~ 20 KHz

Note: Technical specifications are subject to change without notice



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