BDL4620QL V2.00



www.philips.com/welcome

User Manual (English)



Safety Instructions

Warnings and Precautions

KNOW THESE SAFETY SYMBOLS



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



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

CAUTION:

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



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



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

CAUTION:

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

CAUTION:

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

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

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



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

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

Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC

SHOCK, DO NOT EXPOSETHIS APPARATUS TO

RAIN OR MOISTURE,

WARNING: Apparatus shall not be exposed to dripping or splashing

and no objects filled with liquids, such as vases, shall be

placed on the apparatus.

WARNING: The batteries (batteries installed) shall not be exposed

to excessive heat such as sunshine, fire or the like.

WARNING: The mains plug or appliance coupler is used as the

disconnect device, the disconnect device shall remain

readily operable.

WARNING: To prevent the spread of fire, keep candles or other

open flames away from this product at all times.



WARNING: To prevent injury, this apparatus must be securely

attached to the floor/wall in accordance with the

installation instructions.

CAUTION: These servicing instructions are for use by qualified

service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are

qualitified to do so.

CAUTION: Excessive sound pressure from earphones and

headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphone and headphone output voltage and the sound pressure level. Therefore, to protect your hearing, adjust the equalizer

to an appropriate level.

For UL/CUL application: For use only with UL Listed Wall Mount Bracket with minimum weight/load: 41.1 kg.

For CB application: Unit without base weight: 13.7 kg. The equipment and its associated mounting means still remain secure during the test. (Used wall mounting kit: 400×400 mm distance by using M6 screws of 20 mm long plus the thickness of the mounting bracket.)

Regulatory Information

CE Declaration of Conformity

We declare under our responsibility that the product is in conformity with the following standards:

- EN60065:2002+A1:2006+A11:2008+A2:2010+A12:2011 (Safety requirement of Audio, video and similar electronic apparatus)
- EN55022:2010 (Radio Disturbance requirement of Information Technology Equipment)
- EN55024:2010 (Immunity requirement of Information Technology Equipment)
- EN61000-3-2:2006 +A1:2009+A2:2009 (Limits for Harmonic Current Emission)
- EN61000-3-3:2008 (Limitation of Voltage Fluctuation and Flicker)
- EN 50581:2012 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances)

following provisions of directives applicable:

- 2006/95/EC (Low Voltage Directive)
- 2004/108/EC (EMC Directive)
- 2009/125/EC (ErP Directive, EC No. 1275/2008, 642/2009 Implementing Directive for Standby and Off mode power consumption)
- 93/68/EEC (Amendment of EMC and Low Voltage Directive) and is produced by a manufacturing organization on ISO9000 level.
- 2011/65/EU (RoHS 2 Directive)

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 user's authority to operate the equipment. Use only an 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.

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

NOTE:THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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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 ochrone 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-9x17-42107 i PN-89/E-46c251.

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-żylowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzaktóceniowego źródła zasilania.
- Należy upewnić się, aby nic nie leżało na kabłach 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 błokować otworów wentyłacyjnych. Należy unikać kładzenia lużnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

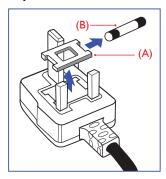
Electric, Magnetic and Electronmagnetic Fields ("EMF")

- We manufacture and sell many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.
- One of our 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.
- We are committed to develop, produce and market products that cause no adverse health effects.
- We confirm that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
- We play an active role in the development of international EMF and safety standards, enabling us to anticipate further developments in standardization for early integration in its products.

Information for U.K. 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:

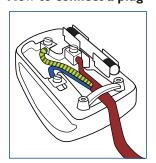
- 1. Remove fuse cover and fuse.
- 2. Fit new fuse which should be a BS 1362 5A,A.S.T.A. or BSI approved type.
- 3. Refit the fuse cover.

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: The 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**")

- The GREEN & YELLOW wire must be connected to the terminal in the plug which is marked with the letter "E" or by the Earth symbol or coloured GREEN or GREEN & 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.

China RoHS

中国电子信息产品污染控制标识要求 (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。

零部件名称		有害物质							
		铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴 联苯 (PBB)	多溴二 苯醚 (PBDE)		
塑料外	框	0	0	0	0	0	0		
后壳		0	0	0	0	0	0		
LCD	CCFL	X	X	0	0	0	0		
panel	LED	X	0	0	0	0	0		
电路板	组件*	X	0	0	0	0	0		
底座		0	0	0	0	0	0		
电源线		X	0	0	0	0	0		
其他线材		×	0	0	0	0	0		
遥控器		×	0	0	0	0	0		

*: 电路板组件包括印刷电路板及其构成的零部件,如电阻、 电容、集成电路、连接器等。

本表格依据SI/T 11364的规定编制。

- 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 GB/T 26572 标准规定的限量要求以下.
- 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 GB/T 26572 标准规定的限量要求.

上表中打"X"的部件中,应功能需要,部分有害物质含量超出 GB/T 26572规定的限量要求,但是符合欧盟RoHS法规要求(属于 豁免部分)。

备注:上表仅做为范例,实际标示时应依照各产品的实际部件及 所含有害物质进行标示。



环保使用期限

在产品本体上标示的该标志表示环境保护使用期限为10年。

电子信息产品的环境保护使用期限是指电子信息产品中所含的有 毒有害物质或元素不会向外部泄漏或出现突然变异,并且电子信 息产品的用户在使用该电子信息产品时也不会对环境造成严重污 染或对人体、财产带来严重损害的期限。

在环境保护期限中,请按照使用说明书使用本产品。

本环境保护使用不覆盖易损件: 电池。

《废弃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规定, 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。



仅适用于非热带气候条件下安全使用:

汉	文	仅适用于非热带气候条件下安全使用。
蒙古	古文	(יי) באיוש פינושל פינושל איניסים איניסים איניסים איניסים איניסים איניסים פיניסים איניסים איניס
藏	文	"कं चदे खालुका क्रीमान वा महीबा बीन चादे खालुका कं नुसार ने नुर्वे नुसार महीबा है।"
维	文	غەيرى ئىسسىق بەلباغ ھاۋا كىلىماتى شارائىتىدىلا بىخەتەر ئىشلەتكىلى بولىدۇ
壮	文	Dan hab yungh youq gij dienheiq diuzgen mbouj dwg diegndat haenx ancienz sawjyungh.



壮 文

仅适用于海拔 2000m 以下地区安全使用:

汉文	仅适用于海拔 2000m 以下地区安全使用。
蒙古文	(2000m 12) regrenk 1x66ep2/ on frank race/ 60 mod80 ($1x$ 0m6 60 1 outurl,)
藏文	" శ్రావుૐર દેવા નવા અધ્યાત્ર કર્મા જો 2000 અવ છે. વાલિવા વિચાર છે. વાલેવા વિચાર છે. જો અધ્યાત્ર કર્મા અધ્યાત્ર કરામા અધ્યાત કરામા અધ્યાત્ર કર
维文	دېڭىز يۈزىدىن 2000 مېتر تۆۋەن رايونلاردىلا بىخەتەر ئىشلەتكىلى بولىدۇ
壮 文	Hai dou gaxgonq, wngdang sien duenh denvasen bae.
汉文	"注意 如果电池更换不当会有爆炸危险 只能用同样类型或等效类型的电池来更换"
蒙古文	אוריזייה? פנור של הי נשלאי שקורל ישיאופאיל ייחילסגיום זיינטיפיר? זייפייאיישר (איטיגיר של שנים שנימייפטיל נדוד זייפיילי (איטוגר דרל פנורר של פול אר
藏文	द्रवायात्रक्षरयात्रयात्रेयात्रक्षरयात्रीक्षयात्र्यात्रयात्रक्षयात्रक्षयात्रयात्रक्षयात्रयात्रयात्रयात्रयात्रया "वायात्रीत्र्यात्र्ययात्रयात्रयात्रयात्रयात्रयात्
	دىققەت

باتارىيىنى ئالماشتۇرۇش مۇۋاپىق بولمىسا يارتلاش خەۋپى بار

ئوخشاش تىيلىق ياكى تەڭ ئۈنۈملۈك باتارىيىنى ئالماشتۇرۇڭ

Danghnaeuz denyouz vuenh ndaej mbouj habdangq aiq miz

Cijndaej yungh gij denyouz doengzyiengh loihhingz roxnaeuz

gij yungyiemj fatseng bauqcaq

		daengjyauq loihl haenx vuenh"
汉	文	"接入本设备的有线网络天线必须与保护接地隔离,不然可能会引起着火等危险!"
		\sim १ कार १ कर कि एसे मुस्ता कि कार्यकार कि कार १ कर कर के स्वाप्त कि स्वाप
蒙古	了文	איסיפיע אבא פיינייים אבא פייניים אבא פייניים אבא פייניים אבא פייניים אבא פייניים אבא פייניים איזיים איזייים איזייים איזייים איזיים איזייים איזייים איזיים איזייים איזייי
		"श्रेष.क्ष्यायदेषु.श्रेदं,लूदं,पह्रेष.चेषु.चेषु.वोषे श्र.श्रेदं,दटः,पद्येवः श्रवेदं,श्रेदं,श्रेतवः,ट्यः,तरः, टी
藏	文	क्षेत्र (व्यापा क्षा क्षित्र स्थाप क्षा क्षा क्षा क्षा क्षा क्षा क्षा क्षा
10.		بۇ ئۈسكىنىگە ئۇلايدىغان سىملىق تور ئانتېننېسىنى يەرگە ئۇلاپ بىخەتەرلەشتۈرۈش
维	文	بىلەن ئايرىۋېتىڭ، بولمىسا ئوت كېتىشتەك خەۋپلەر كېلىپ چىقىدۇ
壮	À.	"Gij mizsienq vangjloz denhsen ciephaeuj bonj sezbi daeuj haenx itdingh aeu caeuq gij ciepdieg baujhoh doxliz, mboujne
小工		aiq miz gij yungyiemi dawzfeiz daengi!"

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 Public Information 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 Electronie Equipment-WEEE

Attention users in European Union private households



This marking on the product or on its packaging illustrates that, under European Directive 2012/19/ EU governing used electrical and electronic appliances, 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 waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

End of Life Directives-Recycling



Your new Public Information Display contains several materials that can be recycled for new users.

Please dispose of according to all Local, State, and Federal laws.



As an ENERGY STAR Partner, we have determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Restriction on Hazardous Substances statement (India)

This product complies with the "India E-waste Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

E-Waste Declaration for India



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment . The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environ-ment. For more information about where you can drop off your waste equipment for recycling in India please visit the below web link.

http://www.india.philips.com/about/sustainability/recycling/index.page

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1. Unpacking and Installation

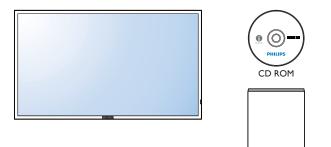
1.1. Unpacking

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

1.2. Package Contents

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

- · LCD display
- CD ROM
- Remote control with AAA batteries
- Power cord (1.8 m)
- VGA cable (1.8 m)
- RS232 cable (1.8 m)
- Quick start guide





 $\ensuremath{^{*}}$ The supplied power cord varies depending on destination.







Quick Start Guide

* Differences according to regions

Display design and accessories may differ from those illustrated above.

NOTES:

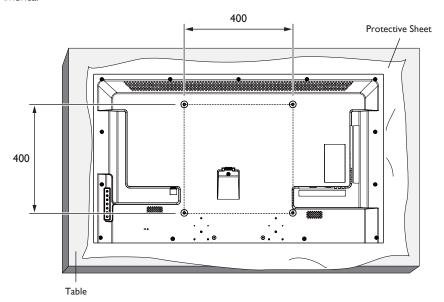
- For all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country.
- · Keep the package box and packing material for shipping the display.

1.3. Installation Notes

- Due to the high power consumption, always use the plug exclusively designed for this product. If an extended line is required, please consult your service agent.
- The product should be installed on a flat surface to avoid tipping. The distance between the back of the product and the wall should be maintained for proper ventilation. Avoid installing the product in the kitchen, bathroom or any other places with high humidity so as not to shorten the service life of the electronic components.
- The product can normally operate only under 2000 m in altitude. In installations at altitudes above 2000 m, some abnormalities may be experienced.

1.4. Mounting on a Wall

To mount this display to a wall, you will have to obtain a standard wall-mounting kit. We recommend using a mounting interface that complies with UL1678 standard in North America.



- 1. Lay a protective sheet on a table, which was wrapped around the display when it was packaged, beneath the screen surface so as not to scratch the screen face.
- 2. Ensure you have all accessories for mounting this display.
- 3. Follow the instructions that come with the base mounting kit. Failure to follow correct mounting procedures could result in damage to the equipment or injury to the user or installer. Product warranty does not cover damage caused by improper installation.
- 4. For the wall-mounting kit, use M6 mounting screws (20 mm long plus the thickness of the mounting bracket) and tighten them securely.

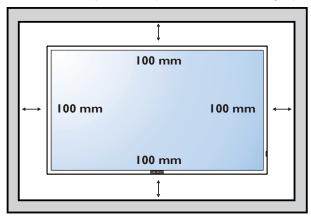
Caution:

To prevent the display from falling:

• To lessen the probability of injury and damage resulting from fall of the display in case of earthquake or other natural disaster, be sure to consult the bracket manufacturer for installation location.

Ventilation Requirements for enclosure locating

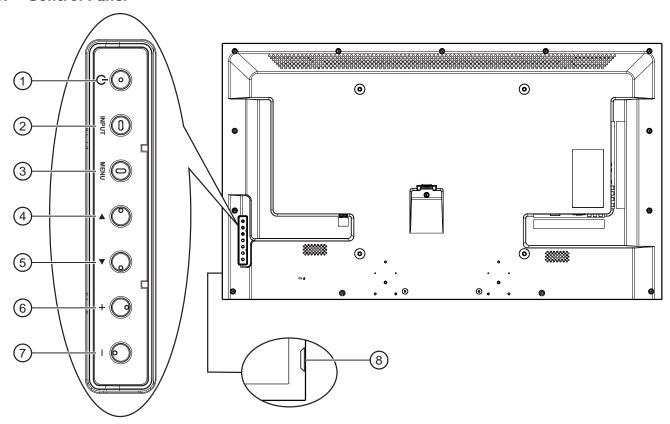
To allow heat to disperse, leave space between surrounding objects as shown in the diagram below.



NOTE: When installing the display on a wall, please consult a professional technician for proper installation. We accept no liability for installations not performed by a professional technician.

2. Parts and Functions

2.1. Control Panel



(1) [POWER] button

Press to switch the display on or off.

(2) [INPUT] button

Press to select input source.

(3) [MENU] button

Press to access the OSD menu.

4 [A] button

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

⑤ [▼] button

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

6 [+] button

Press to increase the adjustment while OSD menu is on, or to increase the audio output level while OSD menu is off.

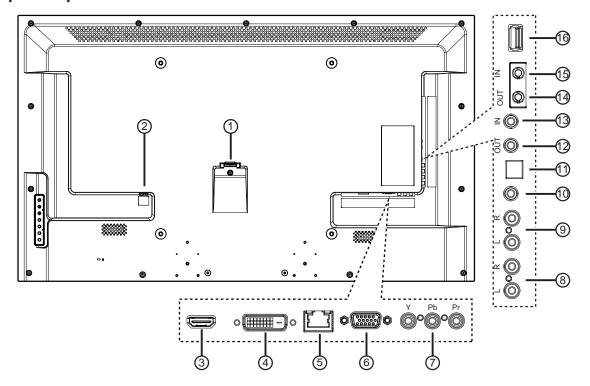
(7) [—] button

Press to decrease the adjustment while OSD menu is on, or to decrease the audio output level while OSD menu is off.

(8) Remote control sensor and power status indicator

- Receives command signals from the remote control.
 - Lights green when this display is turned on
 - Lights red when this display is in standby mode
 - Lights off when the main power of this display is turned off

2.2. Input/Output Terminals



1 AC IN

AC power input.

2 MAIN POWER SWITCH

Main power on/off switch.

(3) HDMI IN

HDMI video/audio input.

(4) DVI IN

DVI-D video input.

(5) **RJ-45**

LAN control function for the use of remote control signal from control center.

6 VGA IN (D-Sub)

VGA video input.

7 COMPONENT IN (RCA)

Component YPbPr video source input.

8 AUDIO IN (RCA)

Audio input from external AV device.

The audio content is the same as the speakers.

9 AUDIO OUT (RCA)

Audio signal output to connect your external AV device.

(10) AUDIO IN (3.5mm)

Audio input from your PC.

(1) SPDIF OUT

Digital audio signal output to connect your external AV device.

12 IR OUT / 13 IR IN (3.5 mm)

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

NOTES:

- This display's remote control sensor will stop working if the jack [IR IN] is connected.
- To remotely control your A/V device via this display, refer to page 8 for IR Pass Through connection.

(4) RS232C OUT / (5) RS232C IN (2.5 mm)

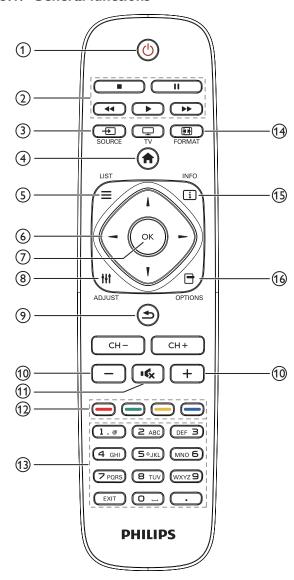
RS232C network output/input for the loop-through function.

(16) USB PORT

Connect your USB storage device.

2.3. Remote Control

2.3.1. General functions



1 h POWER button

Switch this display on or off.

2 PLAY buttons

Control playback of media files.

3 + SOURCE button

Select input source. Press [—] or [—] button to select from **USB**, **Network**, **HDMI**, **DVI**, **YPbPr**, **AV**, or **VGA**. Press [OK] button to confirm and exit.

4 A HOME button

Access the OSD menu.

⑤ ≡ LIST

No function.

⑥ / Ⅰ → ► NAVIGATION buttons

Navigate through menus and select items.

7 OK button

Confirm an entry or selection.

8 | ADJUST button

Access currently available options, picture and sound menus.

(9) **SACK** button

Return to the previous menu page or exit from the previous function.

10 — + VOLUME button

Adjust volume.

11 K MUTE button

Press to turn the mute function on/off.

12 — COLOR buttons

Select tasks or options.

13 NUMERIC buttons

Enter text for network setting.

14 FORMAT button

Change picture format.

(15) i INFO button

Display information about current activity.

16 → OPTIONS

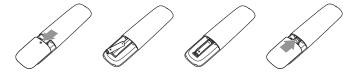
Access currently available options, picture and sound menus.

2.3.2. Inserting batteries in the remote control

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

To install or replace batteries:

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



Caution:

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

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

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

2.3.3. Handling the remote control

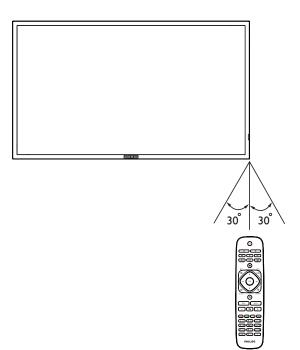
- Do not subject to strong shock.
- · Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
- · Avoid exposure to heat and steam.
- Other than to install the batteries, do not open the remote control.

2.3.4. Operating range of the remote control

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

Use the remote control within a distance of less than 10m/33ft from this display's sensor, and a horizontal and vertical angle of less than 30 degrees.

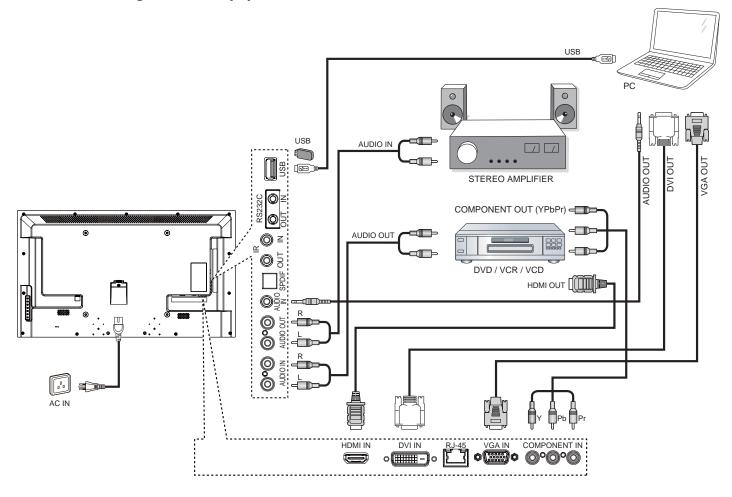
NOTE: The remote control may not function properly when the remote control sensor on this display is under direct sunlight or strong illumination, or when there is an obstacle in the path of signal transmission.



3. Connection

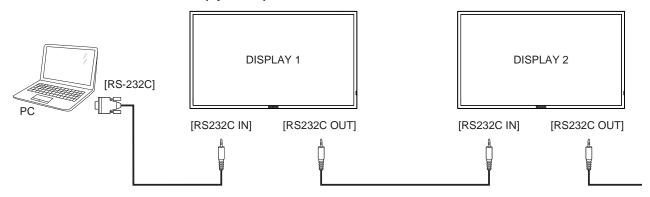
NOTE: The peripherals and cables shown are for example purposes only.

3.1. Connecting External Equipments

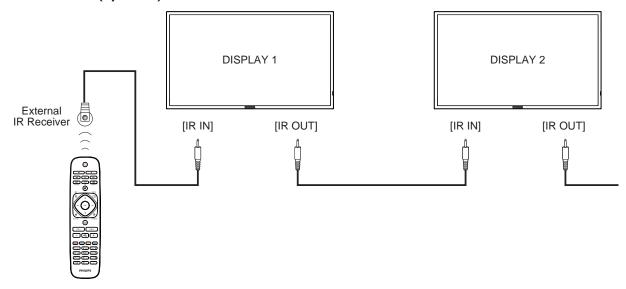


3.2. Connecting Multiple Displays

3.2.1. RS232C control connection (optional)

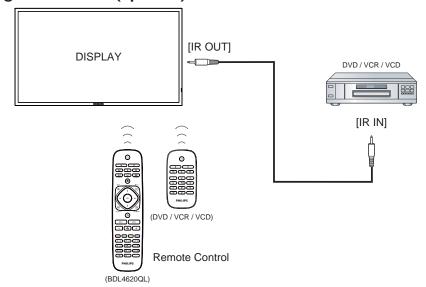


3.2.2. IR connection (optional)



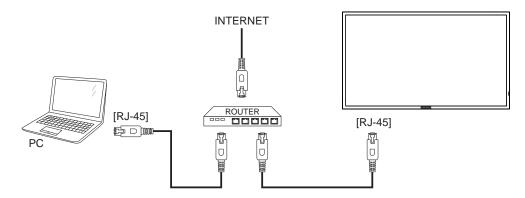
 $\label{eq:NOTE:normalisation} \textbf{NOTE:} \ \ \text{This display's remote control sensor will stop working if the } [\textbf{IR IN}] \ \ \text{is connected.}$

3.3. IR Pass-through Connection (optional)



3.4. Wire-connecting to Network (optional)

If you connect this display to a home network, you can play photos, music and videos from your computer. See *Play multimedia files* (Page 10) for more detail.



To setup the network:

- 1. Switch on the router and switch on its DHCP setting.
- 2. Connect the router to this display with an Ethernet cable.
- 3. Press \spadesuit button on the remote control, then select {Setup}.
- 4. Select {Connect to network}, then press **OK** button.
- 5. Follow the on-screen instructions to install the network.
- 6. Wait for this display to find the network connection.
- 7. If you are prompted, agree to the "End User Licence Agreement".

NOTE: Connecting with a shielded CAT-5 Ethernet cable to comply with the EMC directive.

4. Operation

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

4.1. Watch the Connected Video Source

See page <7> for external equipments connection.

- 1. Press [---] SOURCE button.
- 2. Press [1] or [7] button to choose a device, then press [OK] button.

4.2. Change Picture Format

You can change the picture format to suit the video source. Each video source has its available picture formats.

The available picture formats depend on the video source:

- 1. Press [FORMAT button.
- 2. Press [1] or [7] button to choose a picture format, then press [OK] button.
 - {Auto zoom}: Enlarge the picture to fill the screen.
 Recommended for minimal screen distortion but not for HD or PC.
 - {Movie expand 16:9}: Scale 4:3 format to 16:9. Not recommended for HD or PC.
 - {Wide screen}: Shows wide screen format content unstretched.
 Not recommended for HD or PC.
 - {Unscaled}: Provide maximum detail for PC. Only available when PC mode is selected in the {Picture} menu.
 - {4:3}: Display the classic 4:3 format.

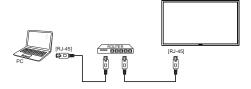
4.3. Play multimedia files via Local Area Network

To play files via Local Area Network, you will need:

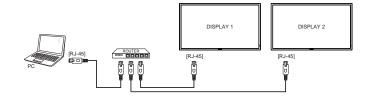
- A wired home network, connected with a Universal Plug and Play (uPnP) router.
- Optional: A LAN cable that connects your display to your home network.
- A media server running on your computer.
- Appropriate settings on your computer firewall to allow you to run the media server.

4.3.1. Set up the network

- Connect your display and the computer to the same home network.
 See illustration below to connect your display to a network.
- 2. Switch on your computer and the router.
 - · Single display setup:



· Multiple display setup:



NOTE: If the apparatus does not return to DLNA mode due to external electrical disturbances (e.g. electrostatic discharge), user intervention is required.

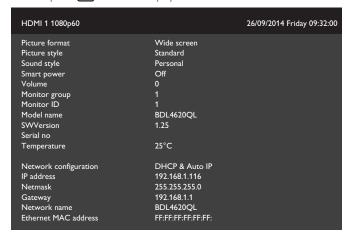
Set up media sharing

- 1. Install a media server on your computer to share media files, These are some media servers:
 - For PC: Windows Media Player 11 (or higher) or TVersity
 - For Mac: Twonky
- 2. Switch on media sharing on your computer using the media server. For more information on how to set up the media server, refer to the website of the media server.

4.3.2. How to use DLNA-DMP

Ensure you have connected to the network,

You can press i button to display the connection of the network.



Play files from display

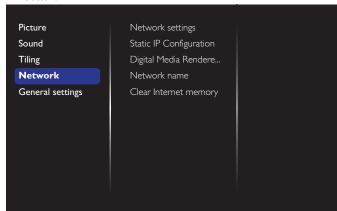
Press [----] SOURCE button, choose Network, and press [OK] button.



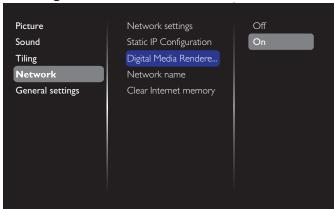
- 2. Now, you can see all the PC's connected to the same router on the screen. Choose the right one.
- 3. Press [1] and [-] to choose the directory and files to play.
- 4. You can connect up to 4 displays to the same PC and play same media stream.

4.3.3. How to use DLNA-DMR from PC

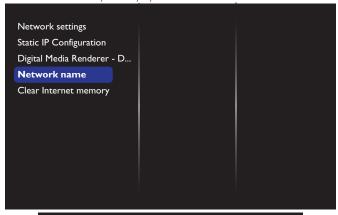
Press [HOME button, choose Network and press [N button.



2. Set Digital Media Renderer DMR as ON.



3. Set the name of your display.





- 4. Press [HOME button, and go to **Source** menu. Then, choose **Network** and press [OK] button.
- 5. On your PC, go to **Network and Sharing Center**, and click **Choose homegroup and sharing options**.
- 6. Check the media formats. Then, click **Choose media streaming options....**.

- 7. Go to **Advanced sharing settings**, and check **Turn on network discovery**.
- 8. Now, go to the directory of your media files. Choose the media file by right click. On the submenu from **Play To**, You can find all displays connected to your network. Choose the display, and click the media file to play.

Play files

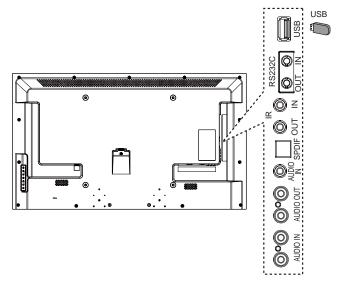
- 1. Press [+>] SOURCE button.
- 2. Choose **Browse network**, and press [OK] button.
- 3. Choose a file from the content browser, and press **[OK]** button to start playing.
- 4. Press the **[PLAY] buttons** on the remote control to control playing.

Tips:

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

4.4. Play multimedia files from USB device

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



2. Press [----] **SOURCE** button, choose **USB**, and press [OK] button.



- 3. The connected USB device is detected automatically for all its playable files, which will be automatically sorted into 3 types:

 Music, Movie, and Photo.
- Press [→] BACK button to go up to the top layer in the screen.
 Press [→] or [→] button to choose the file type. Press [OK] button to enter its play list.
- 5. Choose the file you want. Press [OK] button to start playing.
- 6. Follow the on-screen instruction to control the play option.
- 7. Press [PLAY] buttons (H F G I J) to control playing.

4.5. Play options

4.5.1. Playing music files

1. Choose **I** Music in the top bar.



- 2. Choose one music track, and press [OK] button.
 - To play all the tracks in a folder, choose one music file. Then, press [] to Play All.
 - To skip to the next or previous track, press [1] or [7] button.
 - To pause the track, press [OK] button. Press [OK] button again to resume playback.
 - To skip backward or forward 10 seconds, press [→] or [→] button.
 - To search backward or forward, press [G] or [J] button, press repeatedly to toggle between different speeds.
 - To stop the music, press [H] button.

Music options

While you play music, press [] OPTIONS button, then press [OK] button to choose an option:

- {Shuffle}: Enable or disable random play of tracks.
- {Repeat}: Choose {Repeat} to play a track or an album repeatedly, or choose {Play once} to play a track once.

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

4.5.2. Playing movie files

1. Choose **Movie** in the top bar.



- 2. Choose a video, and press [OK] button.
 - To play all the videos in a folder, choose one video file. Then, press [to Play All.

- To pause the video, press **[OK]** button. Press **[OK]** button again to resume playback.
- To skip backward or forward 10 seconds, press [—] or [—]
- To search backward or forward, press [G] or [J] button, press repeatedly to toggle between different speeds.
- To stop the video, press [H] button.

Movie options

While playing video, press [OPTIONS button, then press [OK] button to choose an option:

- {Subtitles}: Choose the available subtitle settings.
- {Subtitle language}: Choose the language for subtitles if available.
- {Shuffle}: Enable or disable random play of video files.
- {Repeat}: Choose {Repeat} to play the video file repeatedly or {Play once} to play the video file once.
- {Status}: To view information about a video (for example, played position, duration, title, or date).

4.5.3. Playing photo files

1. Choose **O Photo** in the top bar.



2. Choose a photo thumbnail, then press **OK1** button.

Start a slideshow

If there are multiple photos in a folder, choose a photo. Then, press to **Play All**.

- To skip to the previous or next photo, press [¬] or [¬] button, and then press [○K] button.
- To stop the slideshow, press [H] button.

Slideshow options

While you play a slideshow, press $[\ \]$ OPTIONS button, then press $[\ \ \ \ \ \]$ button to choose an option:

- {Shuffle}: Enable or disable random display of pictures in the slideshow.
- {Repeat}: Choose {Repeat} to watch a slideshow repeatedly or {Play once} to watch once.
- {Slideshow Time}: Choose the displaying time for each photo in the slideshow
- {Slideshow Transitions}: Choose the transition from one photo to the next

4.6. How to use Opera browser (HTML5)

1. Press [10] **SOURCE** button, and choose **Internet** and press [OK] button.



2. Move the cursor to URL address bar. Press [OK] button and it will pop out the on-screen keyboard. You can move the cursor to enter the URL address. After finishing the URL address, choose **Done**.



3. Move the cursor to " \rightarrow " icon and press [OK] button.



4. Now, you can see the web page.

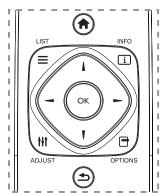


NOTES:

- The Opera browser does not support FLASH format.
- The browser is not a video source. It will not stay at the browser screen after you restart the display.

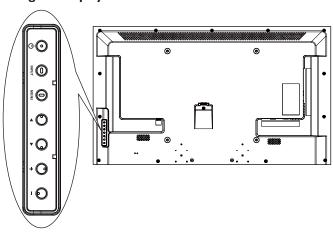
5. Change your settings

Using the remote control:



- 1. Press [HOME button to display the OSD menu.
- 2. Press [] [7] [-] or [-] button to choose its menu item or to adjust its value. Press [OK] button to confirm.
- 3. Press [] BACK button to go back to the previous menu layer.
- 4. Press [HOME button to exit the OSD menu.

Using the display's control buttons

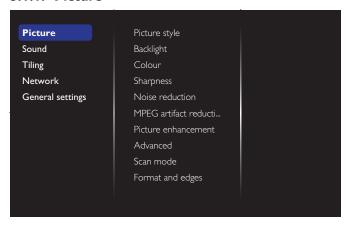


- 1. Press **[MENU]** button to display the OSD menu.
- Press [▲] [▼] [+] or [-] button to choose menu item or adjust its value.
- Press [INPUT] button to confirm menu selection and enter its submenu.
- 4. Press [MENU] button to exit the OSD menu.

5.1. Settings

Press [HOME button.

5.1.1. Picture



Picture style

Choose a predefined picture setting.

Backlight

Adjust the brightness of this display's backlight.

Calaur

Adjust the colour saturation of the picture.

Sharpness

Adjust the sharpness of the picture.

Noise reduction

Choose the amount of noise reduction for the picture.

MPEG artifact reduction

Smoothen transitions and haziness in the digital picture.

Picture enhancement

Fine-tune each pixel to match surrounding pixels and produce a brilliant, high-definition image.

- {Advanced sharpness}: Enable superior sharpness, especially on lines and contours in the picture.
- {Dynamic contrast}: Dynamically enhance the details in the dark, medium and light areas of the picture.
- {Colour enhancement}: Dynamically enhance the vividness and details of colours.

Advanced

Access advanced settings such as gamma, tint, video contrast and so on.

- {Gamma}: Adjust the non-linear setting for picture luminance and contrast.
- {Tint}: Change the colour balance.
- {Custom tint}: Customise colour balance setting. Only available if {Tint} → {Custom} is chosen.
- $\bullet \quad \{ \mbox{Video contrast} \} : \mbox{Adjust video contrast}.$
- {Brightness}: Adjust screen brightness.
- {Hue}: Adjust screen hue.

Scan mode

Change the display area of the image.

Format and edges

• {Picture format}: Change the picture format.

See page 10 for the descriptions about **Picture format**.

Input resolution

Set the special PC timing as {1366×768@60}/{1360×768@60}/ {1280×768@60}/{1024×768@60}/{1440×1050@60}/{1680×1050@60}. (For VGA source only)

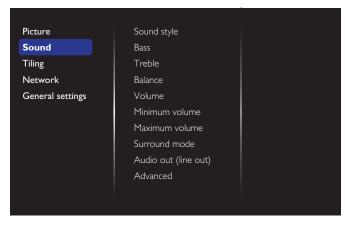
Auto adjust

Auto adjust the position of the picture. (For VGA source only)

Picture reset

Reset all your picture settings to the factory defaults.

5.1.2. Sound



Sound style

Access predefined sound settings.

Bass

Adjust to increase or decrease lower-pitched sounds.

Treble

Adjust to increase or decrease higher-pitched sounds.

Balance

Adjust to emphasize left or right audio output balance.

Volume

Adjust to increase or decrease the volume.

Minimum volume

Set the Minimum volume.

Maximum volume

Set the Maximum volume.

Surround mode

Set surround effects for audio performance.

Audio out (line out)

Adjust audio output volume.

Advanced

Access advanced settings to enhance your audio experience.

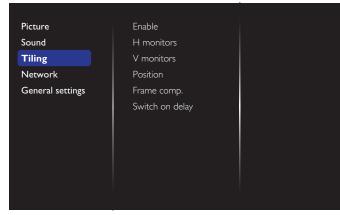
- {Auto volume leveling}: Enable the reduction of sudden volume changes.
- {Speaker settings}: Turn on or off the internal speakers.
- {Clear sound}: Enhance sound quality.
- {Audio out format}: Choose the type of audio output through the digital audio output connector. (HDMI only)
- {Audio out delay}: Automatically sync the image on this display to the audio from a connected home theatre.

{Audio out offset}: Adjust the setting for audio output delay.
 Available if {Audio out delay} is switched on.

Sound reset

Reset to default setting.

5.1.3. Tiling



With this function you can create a single large-screen matrix (video wall) that consists of up to 100 sets of this display (up to 10-sets on the vertical and 10-sets on the horizontal sides).

Enable

Choose to {On} or {Off} the Tiling function. If {On}, the display will apply the settings in {H monitors}, {V monitors}, {Position}, and {Frame comp.}.

H monitors

Adjust displays on the horizontal side.

V monitors

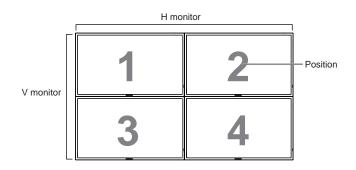
Adjust displays on the vertical side.

Position

Adjust the position of this display in the screen matrix.

Example: 2 x 2 screen matrix (4 displays)

H monitors = 2 displays V monitors = 2 displays



Example: 5 x 5 screen matrix (25 displays)

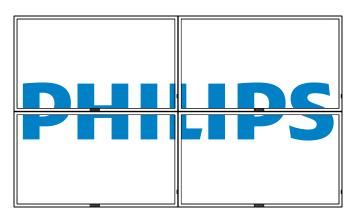
H monitors = 5 displays V monitors = 5 displays

	H monitor						
	1	2	3	4	5	Position	
	6	7	8	9	10		
V monitor	11	12	13	14	15		
	16	17	18	19	20		
	21	22	23	24	25		

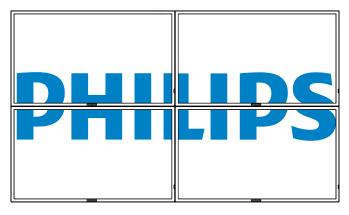
Frame comp.

Choose to turn the frame compensation function on or off. If selected **{On}**, the display will adjust the image to compensate for the width of the display bezels in order to accurately display the image.

{On}



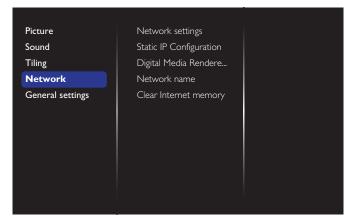
$\{Off\}$



Switch on delay

Adjust the power-on delaying time (in seconds) allows a sequential powering-on for each display by their ID number when multiple displays are connected.

5.1.4. Network



Network settings

{Network configuration}: Choose how this display should assign addresses to the network resources.

The user can choose {DHCP & Auto IP} (suggested) or {Static IP}.

Static IP Configuration

Defin {IP address}, {Netmask}, {Gateway}, {DNS1}, and {DNS2} for this display. If {Network settings} \rightarrow {Static IP} is chosen.

Digital Media Renderer - DMR

Receive multimedia files from the connected device by your network.

Network name

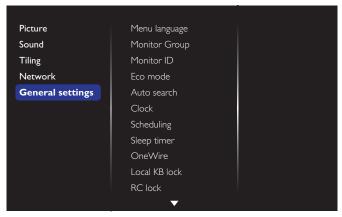
In the multiple-display connection, you can rename each display for easy identification

Use the on-screen keyboard or the remote control keypad to enter the

Clear Internet memory

Clear all the cookies, bookmarks, history list and text used for auto fill.

5.1.5. General settings



Menu language

Choose language used for OSD menus.

Monitor group

Adjust the group range between 1 to 255. The default setting is 1.

Monitor ID

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

Eco mode

Set this display to reduce the power consumption automatically.

Note: Factory default setting is "low power standby", but user could not reset it to default after setting Eco mode to "Normal" by "Factory reset" in MENU. However, user can still change the ECO mode back to "low power standby" manually.

Auto search

Choose to let this display detect and display available signal sources automatically.

Clock

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

Scheduling

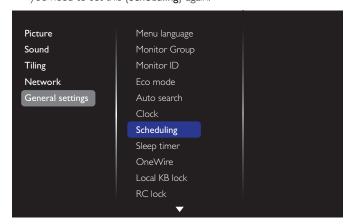
This function allows you to program up to 7 different scheduled time intervals for this display to activate.

You can set:

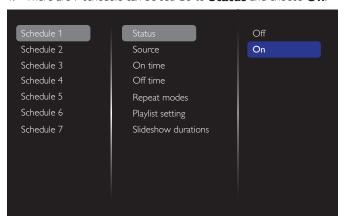
- Which input source the display will use for each scheduled activation period.
- The time for the display to turn on and turn off.
- The days in a week for the display to activate.

NOTES:

- We recommend you to set up current date and time in the {Clock} menu before using this function.
- After changing the {Clock} option in the {General settings} menu, you need to set this {Scheduling} again.

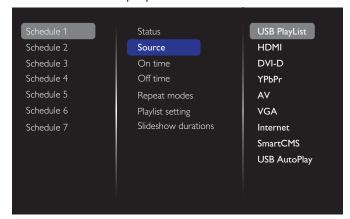


1. There are 7 schedule can be set. Go to **Status** and choose **On**.

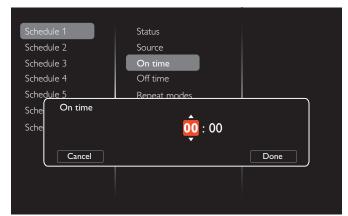


Go to **Source** and choose input source. If {Source} → {USB PlayList} is chosen. You need to set playliist. If {Source} → {Internet} is chosen. You need to set URL address.

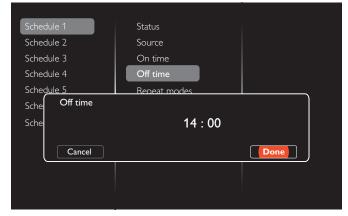
NOTE: If {Source} → {USB Autoplay} is chosen. You need to create a folder named "philips" in the USB.



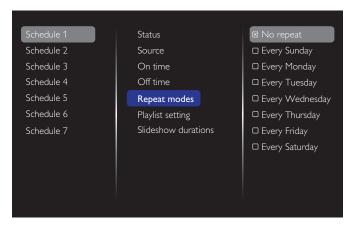
3. Set On time.



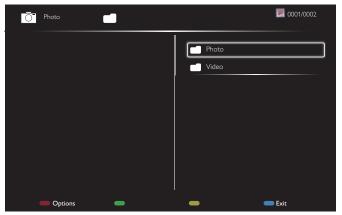
4. Set **Off time**.



5. Go to **Repeat modes** and choose.



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



- Press [1] [7] buttons to choose files.
- Press [→] [▶] buttons to switch Playlist and File Manager.
- Press [OK] button to set or clear the playlist.
- 7. To save the playlist, press [] and choose **Save list**.



NOTES:

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

Sleep timer

Switch off this display after a specified time.

OneWire

Local KB lock

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

- {Unlock}: Enable the keyboard function.
- {Lock all}: Lock all keyboard function.
- {Lock but volume}: Disable all the keyboard function except the
 and [+] button.
- {Lock but power}: Disable all the keyboard function except the [🖒] button.
- {Lock all expect volume and power}: Disable all the keyboard function except the [─], [♣] and [७] button:

RC lock

Choose to enable or disable the button function of the remote control.

- {Unlock}: Enable the keyboard function.
- {Lock all}: Lock all keyboard function.
- {Lock but volume}: Disable all the keyboard function except the
 and [+] button.
- {Lock but power}: Disable all the keyboard function except the [Dower button.
- {Lock all expect volume and power}: Disable all the keyboard function except the [—] [+] and [the left] POWER button:

NOTE: To disable the lock function from **Local KB lock** or **RC lock** item, press buttons [and 1 9 9 8 on the remote control.

Pixel shift

For video input sources, you may choose **{On}** to move the screen image automatically to protect the display from "burn-in" or "after-image" symptoms 30 seconds after not operating the display.

Smart power

Choose a backlight level to optimise dynamic power consumption and picture contrast.

The options are: {Off}, {Standard}, {Medium}, {High}.

Wake on lan

Choose {On} and you can turn on the display by network.

Switch on state

Choose the display status used for the next time you connect the power cord.

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

Power LED Light

Choose (Off) to turn off the indicator.

Logo

Choose $\{Off\}$ and the display will not display the **PHILIPS** logo when you switch on.

Advanced power management

Choose $\{On\}$. Then, when no signal, the display will automatically turn off.

Source notification

When you press [chi] POWER button to turn on the display from standby mode or change the input signal, the information OSD is displayed on the upper left corner of the screen.

Choose {Off} to turn off this function.

Network control port

Choose RS232 (default) or Lan (RJ45) in PD set.

Factory settings

Reset all your customized settings to the factory defaults.

6. USB device compatibility

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

File Extensions	Container	Video codec	Maximum resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec		
		MPEG-1	1920×1080	25p,30p,50i,60i	30	MPEG-1(L1&L2),		
.mpg	DC	MPEG-2	1920×1080	25p,30p,50i,60i	30	MPEG-1,2,2.5 L3,		
mpeg	PS	MPEG-4 ASP 1920×1080		25p,30p,50i,60i	30	AAC/HE-AAC(v1&v2),		
.vob		H.264	1920×1080	25p,30p,50p,60p,60i	30	DVD-PCM,AC3		
		MPEG-2	1920×1080	25p,30p,50i,60i	30	MPFG-1(1& 2)		
		MPEG-4 ASP	1920×1080	25p,30p,50i,60i	30	MPEG-1(L1&L2),		
.ts	TS	H.264	1920×1080	25p,30p,50p,60p,60i	30	MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2),		
	13	MVC	1920×1080i@field rate=50, 60Hz 1920×1080p@frame rate=24, 25,30Hz 1280×720p@frame rate=50, 60Hz	-	30	AC3,E-AC3, Dolby Pulse		
		MPEG-2	1920×1080	25p,30p,50i,60i	30			
.ts		MPEG-4 ASP	1920×1080	25p,30p,50i,60i	30	MPEG-1(L1&L2),		
.m2ts	MaTS TTS	H.264	1920×1080	25p,30p,50p,60p,60i	30	MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2),		
.mts .mt2	11013 113	MVC	1920x1080i @ field rate=50, 60Hz 1920x1080p @ frame rate=24, 25,30Hz 1280x720p @ frame rate=50, 60Hz	-	30	AC3,E-AC3, Dolby Pulse		
			1920×1080	25p,30p,50i,60i	30	MPEG-1(L1&L2),		
.ts		MPEG-4 ASP	1920×1080	25p,30p,50i,60i	30	MPEG-1,2,2.5 L3,		
.m2ts .mts	AVCHD	H.264	1920×1080	25p,30p,50p,60p,60i	30	AAC/HE-AAC (v1&v2), AC3,E-AC3, Dolby Pulse		
.ts .m2ts .mts	AVCHD	MVC	1920×1080i@field rate=50, 60Hz 1920×1080p@frame rate=24, 25,30Hz 1280×720p @ frame rate=50, 60Hz	-	30	MPEG-1 (L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), AC3,E-AC3, Dolby Pulse		
.m4v	M4V	H.264	1920×1080	25p,30p,50p,60p,60i	30	AAC		
		H.264	1920×1080	25p,30p,50p,60p,60i	30	A A C (15 A A C (4.0 2)		
.ism/Manifest .mpd	frag MP4	MVC	1920×1080i@field rate=50, 60Hz 1920×1080p@frame rate=24, 25,30Hz 1280×720p @ frame rate=50, 60Hz	-	30	AAC/HE-AAC(v1&v2), AC3,E-AC3,WMA, WMA-PRO		
		MPEG-4 ASP	1920×1080	25p,30p,50i,60i	30			
		H.264	1920×1080		30	AAC/HE-AAC(v1&v2),		
.mp4	MP4	MVC	1920×1080i@field rate=50, 60Hz 1920×1080p@frame rate=24, 25,30Hz 1280×720p @ frame rate=50, 60Hz	-	30	AC3,E-AC3,WMA, WMA-PRO		
		WMV9/VC1	1920×1080	30p,60i	30			
		MPEG-4 ASP	1920×1080	25p,30p,50i,60i	30	MPEG-1(L1&L2),		
.mkv .mk3d	.mkv MKV		1920×1080		30	MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), AC3,E-AC3,WMA, WMA-PRO		

USB Multimedia Formats

File Extensions	Container	Video codec	Maximum resolution	Frequency (kHz)	Max.Bit Rate (Mbps)	Audio codec
.mp3	MP3	-	-	48	384	MPEG-1,2,2.5 L3

.wma .asf	WMA (V2 up to V9.2)	-	-	48	192	WMA
.wma	WMA Pro	-	-	96	768	WMA,WMA Pro
.wav(PC)	LPCM	-	-	192	768	LPCM
.aif(mac)	LPCM	-	-	192	768	LPCM
.aac .mp4 .m4a	AAC	-	-	48	1024	AAC,HE-AAC(v1&v2)
.pls .m3u	Playlists	-	-	-	-	-
.m4a	M4A	-	-	48	1024	AAC,HE-AAC(v1&v2)

$USB\ Photo\ file\ format\ type: JPEG,\ BMP,\ PNG,\ GIF$

NOTES:

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

7. Input mode

PC Resolution:

Standard	Active Resolution		Defeate Dete	Pixel Rate	A+ D -+: -	Stand for Mode	
Resolution	H Pixels	V Lines	Refresh Rate	Pixei Rate	Aspect Ratio	Stand for Mode	
		480	60 Hz	25.175 MHz			
VGA	640	480	72 Hz	31.5 MHz	4:3	Video Graphic Array	
		480	75 Hz	31.5 MHz			
WVGA	720	400	70 Hz	33.75 MHz	16:9	Wide Video Graphic Array	
CVCA	000	600	60 Hz	40 MHz	4.2	SuperVGA	
SVGA	800	600	75 Hz	49.5 MHz	4:3		
XGA	1024	768	60 Hz	65 MHz	4.3	Extended Graphic Array	
XGA	1024	768	75 Hz	78.75 MHz	4:3		
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	1024	60 Hz	108 MHz	5:4	Super XGA	
WXGA	1360	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 Resolution		Refresh Rate	Pixel Rate	Assest Datio	Stand for Mode	
Resolution	H Pixels	V Lines	Refresh Rate	Pixei Rate	Aspect Ratio	Stand for Mode	
480i	720	480	29.97 Hz	13.5 MHz	4:3	Modified NTSC Standard	
480p	720	400	59.94 Hz	27 MHz			
576i	720	576	25 Hz	13.5 MHz	4:3	Modified PAL Standard	
576p	720	3/6	50 Hz		4:3	Modified PAL Standard	

HDTV Resolution:

Standard Resolution	Active Resolution		Refresh Rate	Pixel Rate	Assest Potio	Stand for Mode
	H Pixels	V Lines	Refresh Rate	rixei Nate	Aspect Ratio	Stand for Plode
720p 128	1200	720	50 Hz	74.25 MHz	16:9	Normally DVB Mode
	1200	720	60 Hz			
1080i 1920	1020	1080	25 Hz	74.25 MHz	16:9	Normally ATSC Mode
	1000	30 Hz	74,23 111112	16:7	Normally ATSC Mode	
1080p	1920	1080	50 Hz	- 148.5 MHz	16:9	Normally ATSC Mode
			60 Hz			

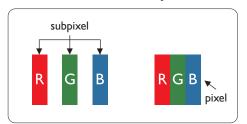
- The PC text quality is optimum in HD 1080 mode (1920 \times 1080, 60 Hz).
- · Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows).
- Check your PC instruction book for information about connecting your PC to a display.
- If a vertical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

8. 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 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.

8.1. Pixels and Sub-pixels



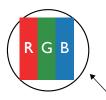
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels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

8.2. 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 are defined as one "dot". The no. of defective sub-pixels are 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.



One dot = One Pixel; consists of three sub-pixels of Red, Green, and Blue.

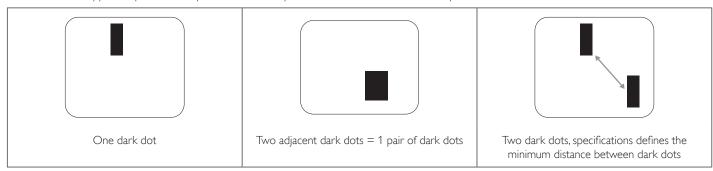
8.3. Bright Dot Defects

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



8.4. 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:



8.5. 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 = 1 pair of dark dots)
- Minimum distance between dark dots
- Total no. of all defective dots

8.6. 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 subpixel defects exceeding the tolerances listed in the following table.

BRIGHT DOT EFFECT	ACCEPTABLE LEVEL
1 lit sub pixel	2
BLACK DOT EFFECT	ACCEPTABLE LEVEL
1 dark sub pixel	10
TOTAL DOT DEFECTS OF ALL TYPES	12

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

8.7. **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.

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

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

9. Cleaning and Troubleshooting

9.1. Cleaning

Caution When Using the Display

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

Front Panel Cleaning Instructions

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

Cabinet Cleaning Instructions

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

9.2. 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. 	 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 or fluorescent lights.	Move the display to another location to see is 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 inputs and sound inputs are correctly connected. Press [—] or [+] 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 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.

10. Technical Specifications

Display:

Item	Specifications
Screen Size (Active Area)	46" LCD (116.8 cm)
Aspect Ratio	16:9
Number of Pixels	1920 (H) × 1080 (V)
Pixel Pitch	0.53025 (H) × 0.53025 (V) [mm]
Displayable Colors	16.7 Million colors
Brightness	350 cd/m ²
Contrast Ratio (Typical)	3000:1
Viewing Angle	178 degrees

In/Out Terminals:

Item		Specifications
Speaker Output	Internal Speakers	7W (L) + 7W (R) [RMS]/16Ω,1 Way 1 Speaker System
		82 dB/W/M/160 Hz ~ 13 KHz
Audio Output	RCA Jack × 2	0.5V [rms] (Normal) / 2 Channel (L+R)
Audio Input	3.5 mm Stereo × 1	0.5V [rms] (Normal) / 2 Channel (L+R)
	RCA Jack × 2	
RS232C Input/Output	2.5 mm × 2	TXD + RXD (1:1)
LAN	RJ-45 Jack × 1 (8 pin)	10/100 LAN Port
HDMI Input	HDMI Jack × 1	Digital RGB:TMDS (Video + Audio)
	(Type A) (19 pin)	MAX: Video: 720p, 1080p, 1920 × 1080/60 Hz (WUXGA) Audio: 48 KHz / 2 Channel (L+R)
		Supports LPCM only
DVI-D Input	DVI-D jack	Digital RGB:TMDS (Video)
VGA Input	D-Sub Jack × 1 (15 pin)	Analog RGB: 0.7V [p-p] (75Ω), H/CS/V:TTL (2.2kΩ), SOG: 1V [p-p] (75Ω)
		MAX: 720p, 1080p, 1920 × 1080/60 Hz (WUXGA)
Component Input	RCA Jack × 3	Y: 1V [p-p] (75Ω), Pb: 0.7V [p-p] (75Ω), Pr: 0.7V [p-p] (75Ω)
		MAX: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
SPDIF Output	SPDIF Port	Serial digital audio output when input is HDMI
IR Input/Output	3.5 mm × 2	IR pass through or IR daisy chain
USB Input	USB × 1 (Type B)	USB 2.0, External PC connection

General:

Item	Specifications
Power Input	100-240V∼ 50-60Hz, 2.5A
Power Consumption (Max.)	95 W
Power Consumption (Typical)	80 W
Power Consumption (EPA6.0)	60 W
Power Consumption (Standby & Off)	< 0.5W (OSD: APM mode off)
Dimensions [W × H × D]	1068 × 622.5 × 38.8 mm
Weight	13.7 Kg
Gross Weight	17.2 Kg

Environmental Condition:

Item		Specifications	
Temperature	Operational	5 ~ 40°C	
	Storage	-20 ~ 60°C	
Humidity	Operational	20 ~ 80% RH (No condensation)	
	Storage	10 ~ 90% RH (No condensation)	
Altitude	Operational	0 ~ 2,000 m	
	Storage	0 ~ 5,000 m	



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