86BDL3050Q V1.00



www.philips.com/welcome User Manual (English)



Safety Instructions

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.
- The eye bolt is for usage in short-time maintenance and installation. We suggest not to use the eye bolt for more than 1 hour. Prolong usage is prohibited. Please keep a clear safety area under the display while using the eye bolt.

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
- LCD panel temperature need to be 25 degrees Celsius at all time for better luminance performance.

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" 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 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.
- 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 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.

EU Declaration of Conformity

This device complies with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to

Electromagnetic Compatibility (2014/30/EU), Low-voltage Directive (2014/35/EU), RoHS directive (2011/65/EU).

This product has been tested and found to comply with the harmonized standards for Information Technology Equipment, these harmonized standards published under Directives of Official Journal of the European Union.

ESD Warnings

When user close to the monitor may cause the equipment discharge and reboot to the display of main menu.

Warning:

This equipment is compliant with Class A of EN55032/CISPR 32. In a residential environment this equipment may cause radio interference.

Federal Communications Commission (FCC) Notice (U.S. Only)



NOTE: This equipment has been tested and found to comply with the limits for a Class A digita device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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 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.

Canada:

Industry Canada statement:

This device complies with RSS-247 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement in

Brazil:

ANATEL RF STATEMENT

Per Article 6 of Resolution 506, equipment of restricted radiation must carry the following statement in a visible location

"Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

ANATEL BODY SAR STATEMENT

"Este produto atende aos requisitos técnicos aplicados, incluindo os limites de exposição da Taxa de Absorção Específica referente a campos elétricos, magnéticos e eletromagnéticos de radiofrequência, de acordo com as resoluções n°303/2002 e 533/2009. Este produto atende às diretrizes de exposição à RF na posição normal de uso a pelo menos X centímetros longe do corpo, tendo sido os ensaios de SAR para corpo realizado a X cm de acordo com o informativo de recomendação apresentado no manual do fabricante."

Polish Center for Testing and Certification Notice

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

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

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

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

Wymagania Polskiego Centrum Badań i Certyfikacji

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

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

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

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

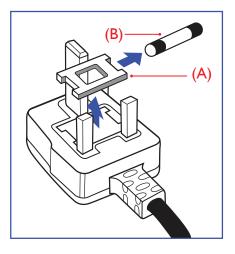
Pozostałe instrukcje bezpieczeństwa

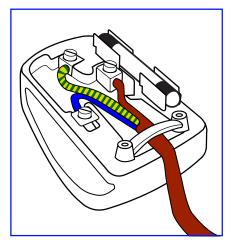
- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami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

Electric, Magnetic and Electromagnetic Fields ("EMF")

- 1. 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.
- 2. 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.
- 3. We are committed to develop, produce and market products that cause no adverse health effects.
- 4. We confirm that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
- 5. 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")

- 1. 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.

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.

China RoHS

根据中国大陆《电子电气产品有害物质限制使用标识要求》,以下部分列出了本产品中可能包含的有害物质的名称和含量。

	有害物质						
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	
外壳	0	0	0	0	0	0	
液晶显示屏/灯管	×	×	0	0	0	0	
电路板组件*	×	0	0	0	0	0	
电源适配器	×	0	0	0	0	0	
电源线/连接线	×	0	0	0	0	0	
遥控器	×	0	0	0	0	0	

本表格依据SJ/T 11364 的规定编制。

*: 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。

O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572规定的限量要求以下。

X: 表示该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规定的限量要求。

上表中打"×"的部件,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。



此标识指期限(十年),电子电气产品中含有的有害物质在正常使用的条件下不会发生外泄或突变,电子 电气产品用户使用该电子电气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。

vi

《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。

警告

此为A级产品。在生活环境中,该产品可能会造成无线电干扰。在这种情况下,可能需要用户 对干扰采取切实可行的措施。

	限用物質及其化學符號						
單元	鉛	汞	鎘	六價鉻	多溴聯苯	多溴二苯醚	
	(Pb)	(Hg)	(Cd)	(Cr^{+6})	(PBB)	(PBDE)	
塑料外框	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
後殼	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
液晶面板	_	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
電路板組件	_	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
底座	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
電源線	_	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
其他線材	—	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
遙控器	—	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
備考1. "〇"係指該項限用物質之百分比含量未超出百分比含量基準值。							
備考2. "一"係指該項限用物質為排除項目。							

警語:使用過度恐傷害視力。

注意事項:

- (1) 使用30分鐘請休息10分鐘。
- (2) 未滿2歲幼兒不看螢幕,2歲以上每天看螢幕不要超過1小時。

警告使用者:

此為甲類資訊技術設備,於居住環境中使用時,可能會造成射頻擾動,在此種情況下,使用者會被 要求採取某些適當的對策。

Turkey RoHS:

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

Ukraine RoHS:

Обладнання відповідає вимогам Технічного регламенту щодо обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні, затвердженого постановою Кабінету Міністрів України від 3 грудня 2008 № 1057

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 Electronic 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.

Attention users in United States:

Please dispose of according to all Local, State and Federal Laws. For the disposal or recycling information, contact: www.mygreenelectronics.com or www. eiae.org.

End of Life Directives-Recycling



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

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

Restriction on Hazardous Substances statement (India)

This product complies with the "E-Waste (Management) Rules, 2016" CHAPTER V, rule 16, sub-rule (1) . Whereas New Electrical and Electronic Equipment and their components or consumables or parts or spares do not contain Lead, Mercury, Cadmium, Hexavalent Chromium, polybrominated biphenyls and polybrominated diphenyl ethers beyond a maximum concentration value of 0.1% by weight in homogenous materials for lead, mercury, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers and of 0.01% by weight in homogenous materials for cadmium. except of 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 environment. For more information about E -waste please visit <u>http://www.india.philips.com/about/sustainability/recycling/index.page</u> and to know where you can drop off your waste equipment for recycling in India please contact on below given contact details.

Helpline number: 1800-425-6396 (Monday to Saturday, 9 a.m. to 5:30 pm)

Centralized E-waste collection center Address:TPV Technology India Private Limited, 59, Maheswari Nagar, 1st Main Road, Mahadevapura Post, Whitefield Road Bangalore, Karnataka, PIN: 560048, Tel: 080-3023-1000 E-mail: india.callcentre@tpv-tech.com

Batteries



For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation.

Please contact your local authority for details on the collection and recycling schemes.

For Switzerland: The used battery is to be returned to the selling point.

For other non-EU countries: Please contact your local authority for correct method of disposal of the used battery.

According to EU directive 2006/66/EC, the battery can't be disposed improperly. The battery shall be separated to collect by local service.



Após o uso, as pilhas e/ou baterias deverão ser entregues ao estabelecimento comercial ou rede de assistência técnica autorizada.

Information for EAC	EAC
Month and year of manufacturing	please refer information in Rating label.
Name and location of manufacturer	ООО "Профтехника"
	Адрес: 3-й Проезд Марьиной рощи, 40/1 офис 1. Москва, 127018, Россия
Importer and information	Наименование организации: ООО "Профтехника"
	Адрес: 3-й Проезд Марьиной рощи, 40/1 офис 1. Москва, 127018, Россия
	Контактное лицо: Наталья Астафьева,
	+7 495 640 20 20
	nat@profdisplays.ru

Table Of Contents

1.	Unpad	cking and Installation1
	1.1.	Transportation and Unpacking1
	1.2.	Package Contents4
	1.3.	Installation Notes4
	1.4.	Mounting on a Wall5
2.	Parts	and Functions6
	2.1.	Control Panel6
	2.2.	Input/Output Terminals7
	2.3.	Remote Control9
	2.4.	USB Cover13
3.	Conn	ecting External Equipment14
	3.1.	Connecting External Equipment (DVD/VCR/ VCD)14
	3.2.	Connecting a PC14
	3.3.	Connecting Audio Equipment15
	3.4.	Connecting Multiple Displays in a Daisy-chain Configuration15
	3.5.	IR connection16
	3.6.	IR Pass-through Connection17
4.	Opera	ation
	4.1.	Watch the Connected Video Source
	4.2.	Change Picture Format18
	4.3.	Overview
	4.4.	Media Player introduction:19
	4.5.	Browser manual
	4.6.	PDF reader play24
	4.7.	CMND & Play
	4.8.	Custom App
5.	Signag	ge display
	5.1.	Setting
	5.2.	Wi-Fi
	5.3.	Ethernet
	5.4.	Proxy
	5.5.	Signage Display
	5.6.	System Tools
	5.7.	Clone Media File
	5.8.	Display
	5.9.	Apps
	5.10.	Security
	5.11.	Date & time
	5.12.	Developer options
	5.13.	About
	5.14.	Supplementary

6.	OSD Menu				
	6.1.	Navigating the OSD Menu	.43		
	6.2.	OSD Menu Overview	.43		
7.	Suppo	rted Media Formats	.49		
8.	Input I	Mode	51		
9.	Pixel D	Defect Policy	. 52		
	9.1.	Pixels and Sub-Pixels	.52		
	9.2.	Types of Pixel Defects + Dot Definition	.52		
	9.3.	Bright Dot Defects	.52		
	9.4.	Dark Dot Defects	.53		
	9.5.	Proximity of Pixel Defects	.53		
	9.6.	Pixel Defect Tolerances	.53		
	9.7.	MURA	.53		
10.	Cleani	ng and Troubleshooting	. 54		
	10.1.	Cleaning			
	10.2.	Troubleshooting			
11.	Techni	cal Specifications	57		

1. Unpacking and Installation

1.1. Transportation and Unpacking

Notice for transportation

• Always keep the carton in vertical direction. Any other directions are not allowed.



• No any other objects could be placed on the carton.



• Move the carton by stacker.



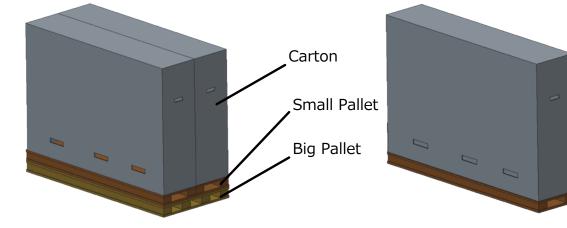
• Move single carton with small pallet by stacker.

• Don't impact the carton.



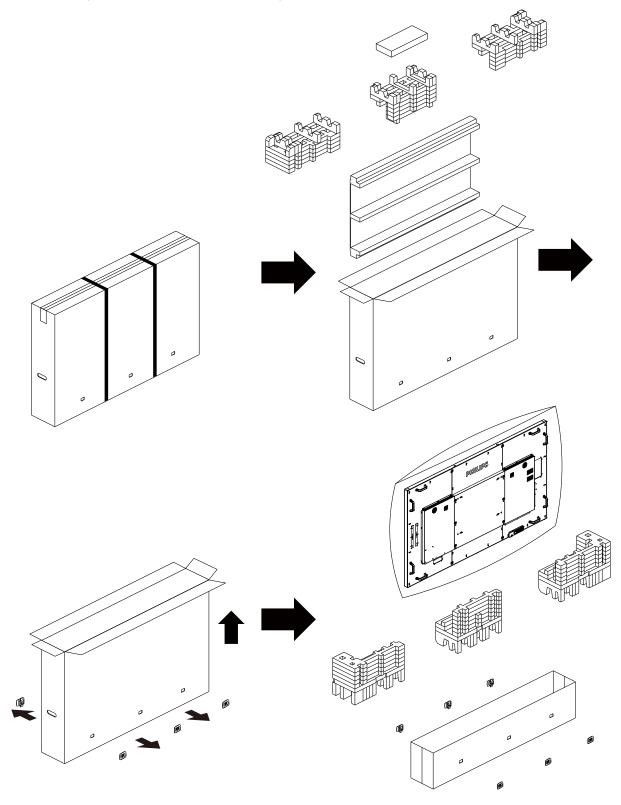
• Don't tip over the carton.



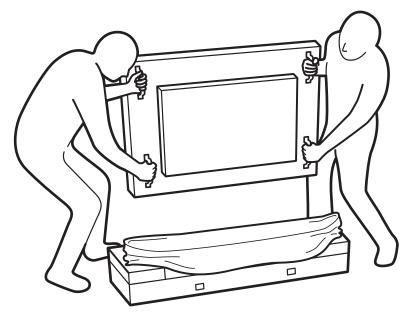


Notice for transportation

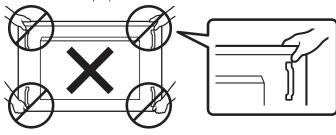
- 1. Remove the strap around the carton.
- 2. Use blade to cut the tape on the top, and open the carton.
- 3. Take out the accessory box.
- 4. Take out the top and front cushions carefully.
- 5. Remove the plastic carton lockers and remove the top carton.

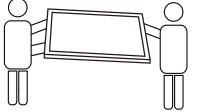


6. With the help of another person to move the display out of the bottom carton.

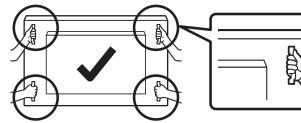


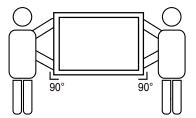
Do not touch the screen of display. Please use the handles • Keep vertical direction when moving the display. to move the display.





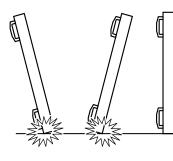




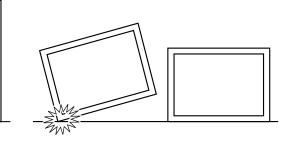




• Do not let the edge of display to touch the hard surface such as floor or table.



٠



Before install the display

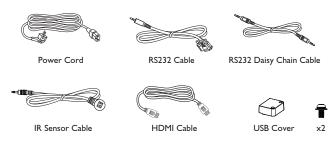
- This product is packed in a carton, together with the standard accessories.
- Any other optional accessories will be packed separately.
- Due to the size and weight of this display it is recommended for two people to move it.
- After opening the carton, ensure that the contents are complete and in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

1.2. Package Contents

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

- LCD display
- Quick start guide
- Remote control with AAA batteries
- Power cord
- RS232 cable
- RS232 daisy chain cable
- IR sensor cable
- HDMI cable
- USB cover and screw x2

* The supplied power cord varies depending on destination.



Quick start guide

Remote Control and AAA Batteries

* Differences according to regions

Display design and accessories may differ from those illustrated above.

NOTES:

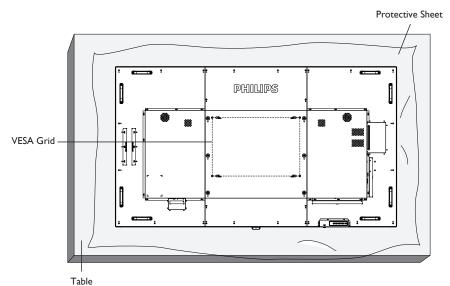
- For all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country (Type H05W-F, 2G or 3G, 0.75 or 1 mm² should be used).
- You might like to save the package box and packing material for shipping the display.

1.3. Installation Notes

- Due to the high power consumption, always use the plug exclusively designed for this product. 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 3000m in altitude. In installations at altitudes above 3000m, some abnormalities may be experienced.

1.4. Mounting on a Wall

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



1. Lay a protective sheet on a table, which was wrapped around the display when it was packaged, beneath the screen surface so as not to scratch the screen face.

- 2. Ensure you have all accessories for mounting this display (wall mount, ceiling mount, table stand, etc).
- 3. Follow the instructions that come with the base mounting kit. Failure to follow correct mounting procedures could result in damage to the equipment or injury to the user or installer. Product warranty does not cover damage caused by improper installation.
- 4. For the wall-mounting kit, use M8 mounting screws (having a length 15 mm longer than the thickness of the mounting bracket) and tighten them securely.
- 5. Unit without base weight =63.8 kg. The equipment and its associated mounting means still remain secure during the test. For use only with UL Listed Wall Mount Bracket with minimum weight/load: 63.8 kg.

1.4.1. VESA Grid

86BDL3050Q	600(H) × 400(V) mm
------------	--------------------

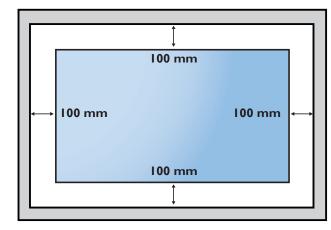
Caution:

To prevent the display from falling:

- For wall or ceiling installation, we recommend installing the display with metal brackets which are commercially available. For detailed installation instructions, refer to the guide received with the respective bracket.
- 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.

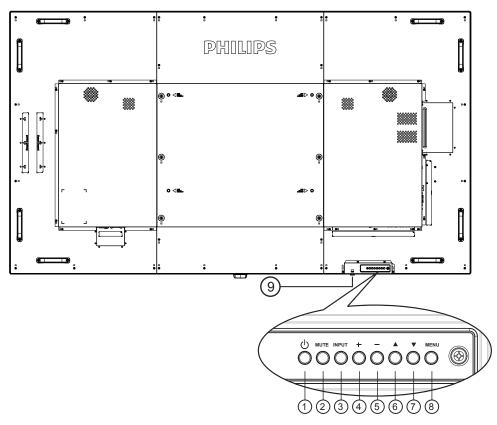
Ventilation Requirements for enclosure locating

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



2. Parts and Functions

2.1. Control Panel



1 [()] button

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

2 [MUTE] button

Switch the audio mute ON/OFF.

③ [INPUT] button

Choose the input source.

(4) [+] button

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

⑤ [—] button

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

6 [**]** button

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

⑦ [▼] button

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

(8) [MENU] button

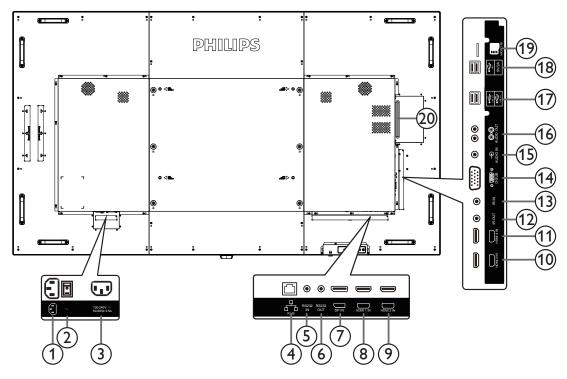
Return to previous menu while OSD menu is on, or to activate the OSD menu when OSD menu is off.

(9) Remote control sensor and power status indicator

- Receives command signals from the remote control.
- Indicates the operating status of the display without OPS:
 - Lights green when the display is turned on
 - Lights red when the display is in standby mode
 - When {SCHEDULE} is enabled, the light blinks green and red
 - If the light blinks red, it indicates that a failure has been detected
 - Lights off when the main power of the display is turned off

* Using IR sensor cable for better remote control performance. (Please refer to the instructions of 3.5)

2.2. Input/Output Terminals



1 AC IN

AC power input from the wall outlet.

2 MAIN POWER SWITCH

Switch the main power on/off.

\bigcirc ac out

AC power supply to the AC IN jack of a media player.

(4) **RJ-45**

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

(5) RS232C IN / (6) RS232C OUT

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

7 DisplayPort IN

DisplayPort video input.

(8) HDMI1 IN / (9) HDMI2 IN / (10) HDMI3 IN / (11) HDMI4 IN

HDMI video/audio input.

12 IR OUT / 13 IR IN

IR signal input / output 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 16 for or IR Pass Through connection.

(14) VGA IN (D-Sub)

VGA video input.

(15) AUDIO IN

Audio input for VGA source (3.5mm stereo phone).

(16) AUDIO OUT

Audio output to external AV device.

(1) USB PORT Connect your USB storage device

(18) USB PORT A



19 MICRO SD CARD

Connect your MICRO SD CARD,

20 OPS SLOT

Slot for installing the optional OPS module.

86BDL3050Q

2.2.1. Inserting the batteries in the remote control

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

To install or replace batteries:

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

Caution:

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

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

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

2.2.2. Handling the remote control

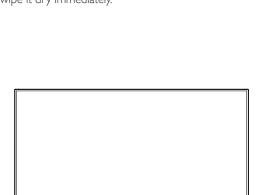
- Do not subject to strong shock.
- Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
- Avoid exposure to heat and steam.
- Other than to install the batteries, do not open the remote control.

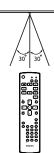
2.2.3. Operating range of the remote control

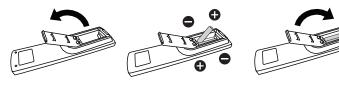
Point the top of the remote control toward the display's remote control sensor when pressing a button.

Use the remote control within a distance of less than 5m/16ft from the 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 the display is under direct sunlight or strong illumination, or when there is an obstacle in the path of signal transmission.

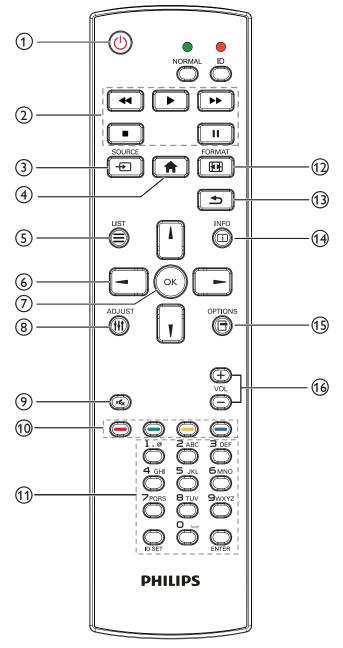






2.3. Remote Control

2.3.1. General functions



(1) [U] POWER button

Power ON/OFF.

(2) [PLAY] buttons

Control playback of media files.(for Media Input only)
Freeze feature

Pause: Freeze hot key for all inputs content.

Play: Unfreeze hot key for all input content.

③ [----] SOURCE button

Root Menu: Go to Video source OSD.

(4) [**†**] HOME button

Root Menu: Go to Main Menu OSD. Others: Exit OSD.

5 [] LIST button

No function.

6 NAVIGATION buttons

[]

Root Menu: Go to Smart picture OSD.

Main Menu: Move the highlight bar up to adjust the selected item. IR Daisy Chain Menu: Increase controlled Group ID number.

[]]

Root Menu: Go to Audio source OSD.

Main Menu: Move the highlight bar down to adjust the selected item.

IR Daisy Chain Menu: Decrease controlled Group ID number.

[◄]

Main Menu: go to previous level menu.

Source Menu: Exit source menu. Volume Menu: Decrease Audio Volume.

[►]

Main Menu: go to next level menu or set selected option. Source Menu: Go to selected source. Volume Menu: Increase Audio Volume.

⑦ [OK] button

Root Menu: Go to IR daisy chain OSD in Primary/Secondary mode. **Main Menu:** Confirm an entry or selection.

⑧ [**††]** ADJUST button

Go to Auto Adjust OSD for VGA only.

[IK] MUTE button

Toggle Audio Mute/Unmute.

(1) [-----] [-----] COLOR buttons

Choose tasks or options.(for Media Input only) [-----] Hot key for Window selection function.

(1) [Number/ ID SET/ ENTER] button

Enter text for network setting.

Press to set the display ID. Refer to **2.3.2. ID Remote Control** for more detail.

12 [H] FORMAT button

Change Image Zoom Mode [Full][4:3][1:1][16:9][21:9][Custom].

(13 [**5**] BACK button

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

(14 [i] INFO button

Show Information OSD

(1) [] OPTIONS button No function.

16 [—] [+] VOLUME button

Adjust volume.

2.3.2. ID Remote Control

You can set the remote control ID when you want to use this remote control on one of several different displays.



Press [ID] button. The red LED blinks twice.

 Press [ID SET] button for more than 1 second to enter the ID Mode. The red LED lights up. Press the [ID SET] button again will exit the ID Mode. The red LED lights off.

Press the digit numbers $[0] \sim [9]$ to select the display you want to control.

For example: press **[0]** and **[1]** for display No.1, press **[1]** and **[1]** for display No.11.

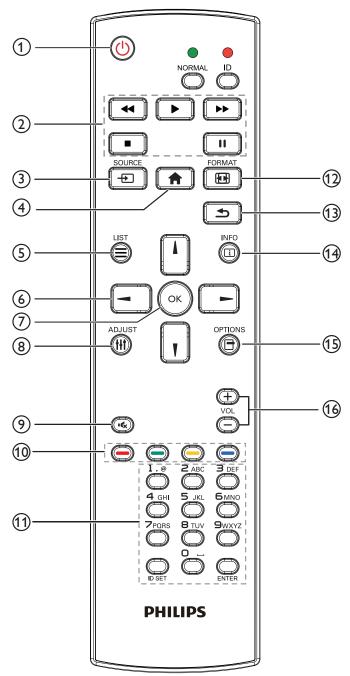
The numbers available are from [01] ~ [255].

- 2. Not pressing any button within 10 seconds will exit the ID Mode.
- 3. If an error pressing of buttons other than the digits occured, wait 1 second after the red LED lights off and then lights up again, then press the correct digits again.
- 4. Press [ENTER] button to confirm. The red LED blinks twice and then lights off.

NOTE:

- Press [NORMAL] button. The green LED blinks twice, indicating the display is in normal operation.
- It is necessary to set up the ID number for each display before selecting its ID number.

2.3.3. Remote Control buttons on Android source



① [···] POWER button

Turn the display on or put the display to standby. The button is only controlled by Scalar.

2 [PLAY] buttons

1. Control playback of media(video/audio/picture) files.

There are 4 ways to play media files.

1) File Manager

Find the media file from the File Manager and select it to play.

2) Media Player -> Compose -> edit or new add playlist ->

choose any media files -> press **()** to play the media file directly.

3)Media Player -> Play -> choose non-empty play list -> press

4) Set media playlist in Boot on Source or Schedule by OSD menu.

2. Play PDF file

There are 3 ways to play media files.

1) File Manager

Find the pdf file from the File Manager and select it to play.

2) PDF Player -> Play -> choose non-empty play list -> press of to play all the PDF files in the play list.

3) Set pdf playlist in Boot on Source or Schedule by OSD menu.

3. When playing PDF, video or music, press **I** to stop playing.

Then if pressing **s** again, playing will be started from the beginning of the file.

4. When playing PDF, video or music, press button to pause playing.

5. All media or pdf files should be put at the folder, which is named "philips" with sub-folder, under the root directory of the specified storage (internal/USB/SD Card). All sub-folders (video/photo/music/pdf) are named by media types and shouldn't be changed.

videos: {root dir of storage}/philips/video/

photos: {root dir of storage}/philips/photo/

music : {root dir of storage}/philips/music/

pdfs : {root dir of storage}/philips/pdf/

Note that the root directories of three storages are

Internal storage:/sdcard USB storage:/mnt/usb_storage

SD card :/mnt/external sd

③ [----] SOURCE button

Choose input source.

The button is only controlled by Scalar.

④ [**†**] HOME button

Access OSD menu.

The button is only controlled by Scalar.

5 [] LIST button

1. In the content of the web page, move the focus up to the next clickable items.

2. Move the focus up to the next control or widget such as buttons.

6 NAVIGATION buttons

- 1. Navigate through menus and choose items.
- 2. In the content of the web page, these buttons are to control the

scroll bar of the screen. Press 🕕 or 🔟 is for moving vertical scroll

bar up or down. Press 😑 or 🖃 is for moving horizontal

scroll bar left or right.

3. For PDF files,

» when zoom in/out has been performed,

Press [], [], [] or [] to adjust the position of the screen.

» when zoom in/out has been not performed,

Press by to go to the next page.

Press **—** to go to the previous page.

⑦ [OK] button

Confirm an entry or selection.

⑧ [**††]** ADJUST button

1. In the content of the web page, move the focus down to the next clickable items.

2. Move the focus down to the next control or widget such as buttons.

[IK] MUTE button

Press to turn the mute function on/off.

The button is only controlled by Scalar.

10 [----] [----] [----] COLOR buttons

1. Of the function on Android source. These two buttons are only controlled by Scalar.

2. For PDF files,

press (C) button to perform zoom-in;

press () button to perform zoom-out.

After zoom-in or zoom-out, press subtract button to revert the pdf file to the original size.

(1) [Number/ ID SET/ ENTER] button

1. No functions for ID SET 💭 and ENTER 🔘 on Android

source. These buttons are only controlled by Scalar.

2. For PDF file, enter the page number by pressing number buttons

and then press of button to jump to the specific page.

12 [II] FORMAT button

Change picture format. The button is only controlled by Scalar.

(13 [**5**] BACK button

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

(14 [i] INFO button

1. Display information about current input signal. It is shown by Scalar.

2. Media Player -> Compose -> edit or new add playlist -> choose

any media files -> press 👸 to show the information of the

chosen media file.

(15 [-] OPTIONS button

Open toolbox in Media Player or PDF Player.

1. Media Player ->Compose -> Edit or new add playlist -> press

to open toolbox. Toolbox will be slide from the left side of the screen.

2. PDF Player -> Compose -> Edit or new add playlist -> press

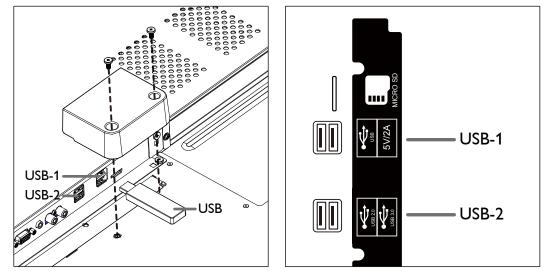
to open toolbox. Toolbox will be slide from the left side of the screen.

(16 [-] [+] VOLUME button

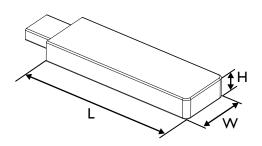
Adjust volume. The buttons are only controlled by Scalar.

2.4. USB Cover

• Use the USB cover and screws to hide the USB stick and Micro SD card.

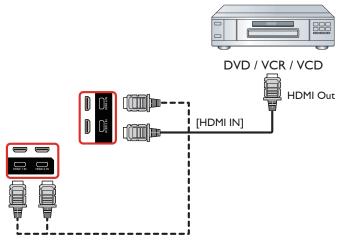


• Maximum suitable USB sticker size: USB-1: 20(W)x8(H)x60(L) USB-2: 20(W)x8(H)x46(L)



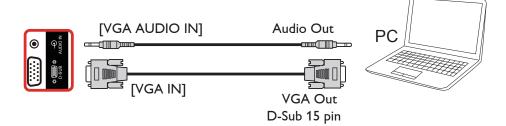
3. Connecting External Equipment

- 3.1. Connecting External Equipment (DVD/VCR/VCD)
- 3.1.1. Using HDMI video input

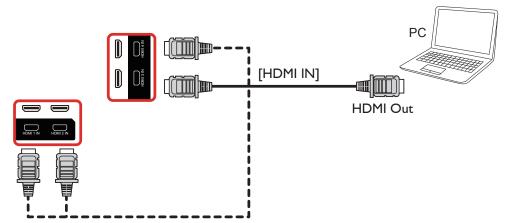


3.2. Connecting a PC

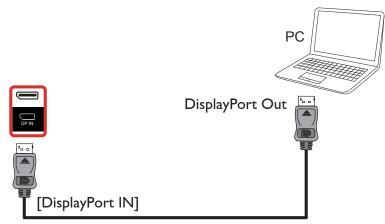
3.2.1. Using VGA input



3.2.2. Using HDMI input

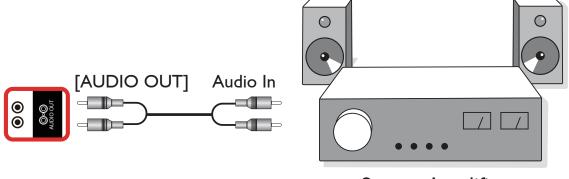


3.2.3. Using DisplayPort input



3.3. Connecting Audio Equipment

3.3.1. Connecting an external audio device



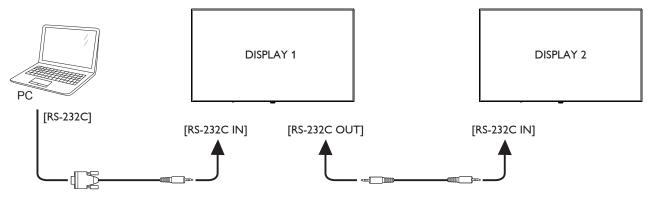
Stereo Amplifier

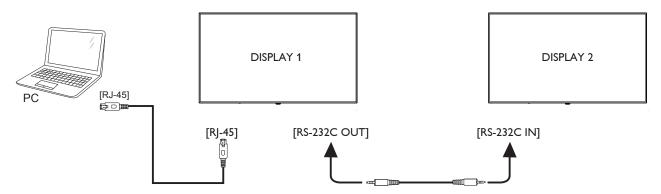
3.4. Connecting Multiple Displays in a Daisy-chain Configuration

You can interconnect multiple displays to create a daisy-chain configuration for applications such as a menu board.

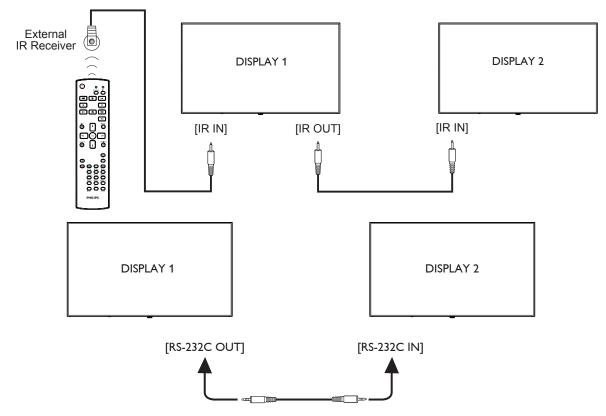
3.4.1. Display control connection

Connect the [RS232 OUT] connector of DISPLAY 1 to the [RS232 IN] connector of DISPLAY 2.





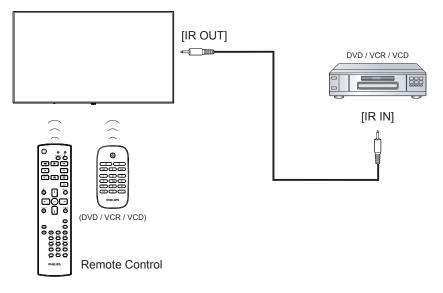
3.5. IR connection



NOTE:

- 1. This display's remote control sensor will stop working if the $\left[\text{IR IN} \right]$ is connected.
- 2. IR loop through connection can support up to 9 displays.
- 3. IR in daisy chain via RS232 connection can support up to 9 displays.

3.6. IR Pass-through Connection



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

- 1. Press [-----] SOURCE button.
- 2. Press [] or [] 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 **[1] FORMAT** button to choose a picture format.
 - PC mode: {Full} / {4:3} / {Real} / {21:9}/ {Custom}.
 - Video mode: {Full} / {4:3} / {Real} / {21:9}/ {Custom}.

4.3. Overview

1. Android PD launcher:

• Android PD launcher is black page, as below:



- Every apps leave by press back key, the screen will go to android PD launcher.
- When you return to android PD launcher, the screen will show hint image, the hint image only show 5 second, as below:
- The hint image will notify you can press source key to change source.



- 2. Admin mode:
 - You can press "Home + 1888" to enter admin mode. Please make sure you see the Home OSD menu after "Home" is pressed, and then press 1888 in sequence. Two continuous "Home" keys will not be a valid hotkey.

- Admin mode will show five icons: "Settings", "Apps", "Network" "Storage" and "Help".
- When you leave admin mode, system will return to last source.

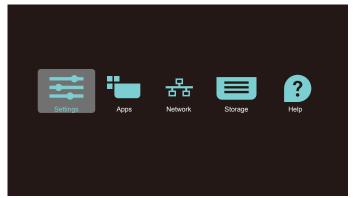
1)Home page of admin mode, this page has five items: "Settings", "Apps", "Network" "Storage" and "Help".

Settings : go to settings app.

Applications : show all apps.

Network : set Wi-Fi (optional), Ethernet

Storage : display current PD Android storage information. Help : display QRcode.



2.) Application page:



3) Network page



4) Ethernet page

Ethernet	
Main Switch Disable	0
Enable	۲
Ethernet Configuration	
Connection Type DHCP	
Mac Address 00:e0:4c:36:00:05	

5) Wi-Fi (Optional)

Disable	۲
Enable	0
To see available networks, turn Wi-Fi on.	

6) Help page:



4.4. Media Player introduction:

 Home page of Media Player, this page has three items: "Play", "Compose" and "Settings".
 Play : select playlist to play.
 Compose: edit playlist.
 Settings: setting play properties.



 Select "Play" on home page, first you should choose one playlist to play between FILE 1 and FILE 7. The pencil icon means the playlist is non-empty.

PlayList
File 1
File 2
File 3
File 4
File 5
File 6
File 7

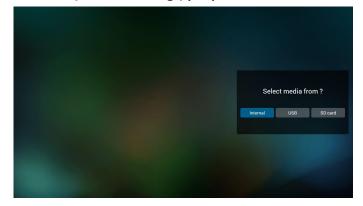
 Select "Compose" on home page, first you should choose one playlist to edit between FILE 1 and FILE 7. The pencil icon means the playlist is non-empty.

	PlayList
	File 1 🥒
	File 2
	File 3
	File 4
	File 5
	File 6
	File 7

 If an empty playlist is chosen, the app will guide you to select the media source.

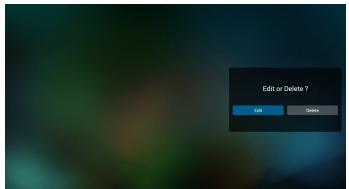
All media files should be placed in /philips/ of root directory. For example,

videos: {root dir of storage}/philips/video/ photos: {root dir of storage}/philips/photo/ music : {root dir of storage}/philips/music/



86BDL3050Q

5. You could edit or delete a non-empty playlist, just choose the desired playlist which is with pencil icon.



- 6. Once you start to edit a playlist, you will see below screen. Source - files in storage. Playlist – files in playlist. There are 4 icons which map to the keys of remote controller. Option key – launch slide bar Play key – play media file. Info key – show media info.
 - Ok key select/unselect file.

6-1 In the slide bar, it helps you to do the following:

- select all : select all storage files.
- delete all : delete all playlist files.
- add/remove : update playlist from source.
- sort : sort playlist.
- save/abort : save or abort playlist.
- back : return.



7. If you choose "Sort" in the slide bar, you can change the order of files one by one.



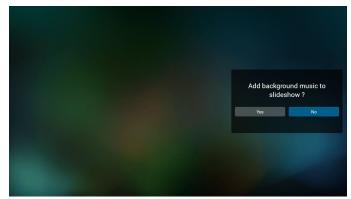
8. Press info key after you choose desired file, you will get the detail information.



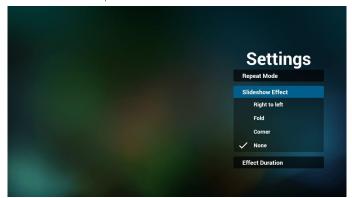
9. Press play key after you choose desired file, you will play the media file directly.



 If you make a playlist with all images files, before saving, the app will ask you if you want to have background music while playing slideshow.



 Select "Settings" on home page, this page has three parts, "Repeat Mode", "Slideshow Effect" and "Effect Duration". Repeat Mode : play mode. Slideshow Effect : photo slideshow effect. Effect Duration : photo effect duration.



12. Media Hotkey

Play : Playback file.
Pause: Pause file.
Fast forward: forward 10 second.
Rewind: back 10 second.
Stop: Stop file and return to start. If the gif file, it like the pause.

- 13. Media format please refer to Page 49 Supported Media Formats.
- 14. How to edit playlist via FTP. Step 1. Create media player text file.
 - File name : mpplaylistX.txt, "X" means playlist number(1,2,3,4,5,6,7).
 - Ex. mpplaylist1.txt, mpplaylist2.txt
 - Content :



Note : if playlist file contains video and music, when the pd plays music file, the screen will be black.

Step 2. Copy mpplaylistX.txt to "philips" folder of internal storage. You may use FTP to do this.

- File path : /storage/emulated/legacy/philips

Ex. /storage/emulated/legacy/philips/mpplaylist1.txt

Step 3. Prepare media files to "photo", "video" and "music" folder under "philips" folder, internal storage only.

- Ex./storage/emulated/legacy/philips/photo/xxx.jpg /storage/emulated/legacy/philips/video/yyy.mp4
- /storage/emulated/legacy/philips/photo/zzz.mp3

Step 4. Start media player app, it will auto import media player text file.

PS. Once the playlist file (text) is imported, if an user change playlist by remote controller, this change will not be written to playlist text file.

4.5. Browser manual

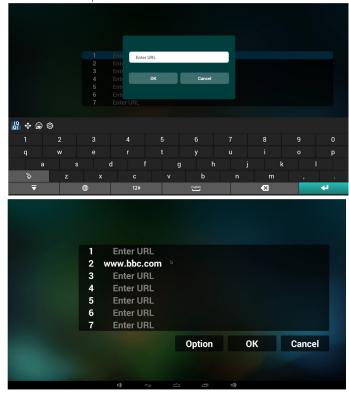
1. Home page of Browser app, this page has one item: "Settings". Press Settings then enter next page.



Users can choose 1~7.
 Press any one will show a dialog.

1	Enter URL			
2				
3	Enter URL			
4	Enter URL			
5	Enter URL			
6	Enter URL			
7	Enter URL			
		Option	ОК	Cancel

3. Enter url and press OK then data will save on List



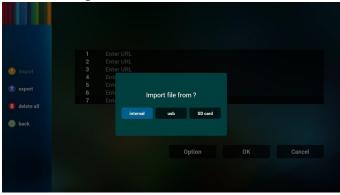
86BDL3050Q

 Press "Option" then left side will pop up a list Import : Import url list file Export : Export url list file Delete all : Delete all url record on right side Back : left side list will be closed.

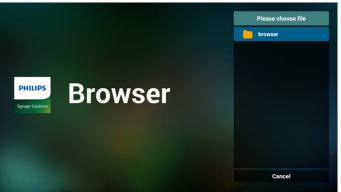


4.1 Import

- Click import
 import
 export
 delete all
 back
 0ption
 0K
 Cancel
- Choose storage



Choose file contains urls



Import file and url will show on list

.



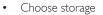
• File format for import Format should be like below with file extension "txt"

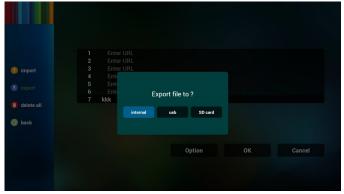
<pre>1 http://www.abc.com 2 http://www.baidu.com 3 http://www.bbc.com 4 http://www.bbc.com.tw 5 http://www.cnn.com 6 http://www.youtube.com</pre>		urls.txt ×
<pre>3 http://www.bbc.com 4 http://www.bbc.com.tw 5 http://www.cnn.com</pre>	1	http://www.abc.com
<pre>4 http://www.bbc.com.tw 5 http://www.cnn.com</pre>	2	http://www.baidu.com
5 http://www.cnn.com	3	http://www.bbc.com
	4	http://www.bbc.com.tw
<pre>6 http://www.youtube.com</pre>	5	http://www.cnn.com
	6	http://www.youtube.com
7 http://www.yahoo.com.tw		http://www.yahoo.com.tw

4.2 Export:

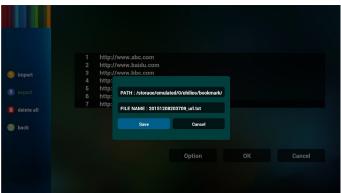
Click export







• Dialog shows path file will be saved and file's name. Press "save" button then urls on list will be saved.



5. Press OK then url records will be saved



6. On url list page, if you select non-empty item, it will show a dialog to ask edit or play url. If press "Edit", it will show edit url dialog, if press "Play", it will show web page of item's url.



1 2 3 4 5 6 6 7	Enter URL Enter URL Ente Ente Ente		pogle.com	
		Edit	Play	
			Option	Cancel

- 7. OSD menu interaction with Browser
- 7.1 Boot on source
- Set OSD menu => Confiuration1 => Boot on source => Input be BROWER Play List be 0.

Then PD will show Browser after reboot.

• Set OSD menu => Confiuration1 => Boot on source => Input be BROWER Play List be 1.

Then PD will show web page with 1st Url in Browser app.

7.2 Schedule

Set OSD menu => Advanced option => Schedule =>

On time1, Off time2, Input be BROWSER, any day you want of week, and Play List.

Finally check the right box.

Then PD will show web page with Url in Browser app at time1 and finish at time2.

- 8. How to edit url list via FTP Step 1. Create media player text file.
 - File name : bookmarklist.txt.
 - Content :



Step 2. Copy bookmarklist.txt to "philips" folder of internal storage. You may use FTP to do this.

- File path : /storage/emulated/legacy/philips (for DL, PL)

Ex. /storage/emulated/legacy/philips/bookmarklist.txt

Step 3. Start browser app, it will auto import browser text file.

PS. Once the playlist file (text) is imported, if an user change playlist by remote controller, this change will not be written to playlist text file.

4.6. PDF reader play

1. Home page of PDF Player, this page has three items: "Play", "Compose" and "Settings".

Play : select playlist to play.

Compose: edit playlist.

Settings: setting play properties.



2. Select "Play" on home page, first you should choose one playlist to play between FILE 1 and FILE 7.

The pencil icon means the playlist is non-empty.



3. Select "Compose" on home page, first you should choose one playlist to edit between FILE 1 and FILE 7.

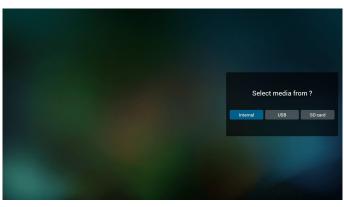
The pencil icon means the playlist is non-empty.



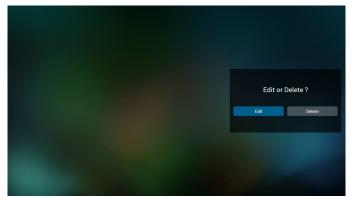
4. If an empty playlist is chosen, the app will guide you to select the media source.

All media files should be placed in <code>/philips/</code> of root directory. For example,

pdfs : {root dir of storage}/philips/pdf/



5. You could edit or delete a non-empty playlist, just choose the desired playlist which is with pencil icon.



 Once you start to edit a playlist, you will see below screen. Source - files in storage.

Playlist – files in playlist.

There are 4 icons which map to the keys of remote controller. Option key – launch slide bar $% \left({{\left[{{{\rm{c}}} \right]}_{{\rm{c}}}}_{{\rm{c}}}} \right)$

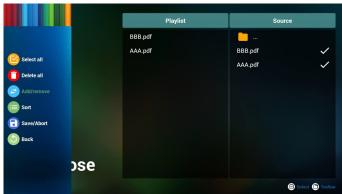
Play key – play media file.

Info key – show media info.

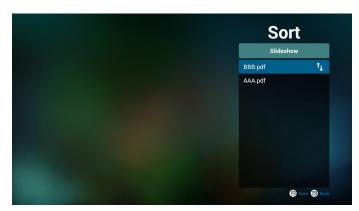
Ok key – select/unselect file.

6-1. In the slide bar, it helps you to do the following:

- select all : select all storage files.
- delete all : delete all playlist files.
- add/remove : update playlist from source.
- sort : sort playlist.
- save/abort : save or abort playlist.
- back : return.



7. If you choose "Sort" in the slide bar, you can change the order of files one by one.



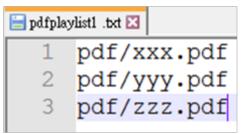
8. Select "Settings" on home page, this page has two parts, "Repeat Mode" and "Effect Duration".

Repeat Mode : play mode.

Effect Duration : photo effect duration.



- 9. How to edit pdf list via FTP. Step 1. Create pdf player text file.
 - File name : pdfplaylistX.txt, "X" means playlist number(1,2,3,4,5,6,7).
 Ex. pdfplaylist1.txt, pdfplaylist2.txt
 - Content :



Step 2. Copy pdfplaylistX.txt to "philips" folder of internal storage. You may use FTP to do this.

- File path : /storage/emulated/legacy/philips (for DL, PL) Ex. /storage/emulated/legacy/philips/pdfplaylist1.txt

Step 3. Prepare pdf files to "pdf" folder under "philips" folder, internal storage only.

Ex. /storage/emulated/legacy/philips/pdf/xxx.pdf
 /storage/emulated/legacy/philips/pdf/yyy.pdf
 /storage/emulated/legacy/philips/pdf/zzz.pdf

Step 4. Start pdf player app, it will auto import pdf player text file. PS. Once the playlist file (text) is imported, if an user change playlist by remote controller, this change will not be written to playlist text file.

Media Hotkey:

Play : Playback file.

Pause: Pause page.

Fast forward: go to next page, if the page is end of the file, it will go to next file.

Rewind: back to last page, if the page is first of the file, it will back to last file.

Stop: return to first page of file

Color Hotkey:

Blue : Zoom in.(+10%)

Yellow : Zoom out.(-10%)

OK : Restore zoom

Arrow keys:

Up/Down/Left/Right : Adjust page. (When the page has zoomed in/ out)

Left : Previous Page. (When the page has not zoomed in/out) Right : Next Page. (When the page has not zoomed in/out)

Combination key:

Number key + OK key : select specific page, and press ok key to change page.

- Press number key.

- Press OK key, the bottom of the page will show the page number, if page number over total page number, it will not change page and show current page number at the bottom of the page.

4.7. CMND & Play

1) Server

Setup CMND & Play server address

2) Account

Setup CMND & Play account

3) PIN Code

Setup CMND & Play PIN code

(4) Version

There are two options, Ver.2 and Ver.3

Ver. 2

use 2.0/2.2 agreement

Ver. 3

÷

use 3.0/3.1 agreement

(5) Content

There are internal storage/SD card/USB storage 3 options for selecting.

When Ver.2, Server/Account/PIN code will be gray and unavailable.

CMND & Play	
Settings Server	
Account	
PIN Code	
Version Ver2	
CONTENT	
Internal storage	۲
SD card	0
USB storage	0

When Ver.3, Server/Account/PIN code is available.

CMND & Play	
Settings	
Server	
Account	
PIN Code	
Version Ver3	
CONTENT	
Internal storage	۲
SD card	0
	0

4.8. Custom App

User can set up the application for Customer Source Note:

(1) Only display User Installed app.

(2) Will not show up system pre-install app.

4.8.1. OSD Menu operation:

RCU: Source -> Custom

If set up customer APK, PD will open customer app when switch source to Customer mode.

If no set up customer APK, PD will show Black screen when switch source to Customer mode.

4.8.2. Function Introduction

	Custom App			
	Select App Play Books			
		Select App		
		Play Books		۲
		Play Music		0
		YouTube		
		FORGET	CANCEL	SAVE

Save

Select the App, click the Save will perform the function of storage.

Forget

After press the Forget, can remove previously stored information.

Cancel

Don't do any change, directly closed Windows.

If no customer installed apk, the list will be blank.

The list will be blank and "Save""Forget" will be gray and useless.





If customer installed apk,user can select customer installed apk in list

• Case 1: Not set up Custom App case.

Customer app will show up and focus on first item automatically.

÷	Custom App			
	Select App Play Books			
		Select App		
		Play Books		۲
		Play Music		0
		YouTube		
		FORGET C	ANCEL	SAVE

After set up, the setting screen display the app name.

*	Custom App
	Select App Play Books

• Case 2: Set up Custom App case(there is entity circle to the right of icon)

← Custom App		
Select App Play Music		
	Select App	
	Play Books	
	Play Music	۲
	YouTube	
	FORGET	CANCEL SAVE

5. Signage display

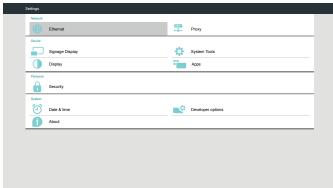
5.1. Setting

Main items:

(1) WI-Fi (Show up when plug in Wi-Fi dongle)

- (2) Ethernet
- (3) Proxy
- (4) Signage Display
- (5) System Tools
- (6) Display
- (7) Apps
- (8) Security
- (9) Date & time
- (10) Developer options

(11) About



5.2. Wi-Fi

Via Enable/Disable to control Wi-Fi On/OFF. After Enable, the screen will list all available Wi-Fi AP.

Note :

Ethernet will be disable automatically if Wi-Fi turn on and connect to network.

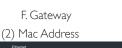
WEFT	
Mais Switch Disable	0
Enable	۲
🐔 ASUS.RT-N10+	
TPVLSS-6801	
🔞 Xiaomi_5966	
TPVSWA_2.4G	
W_Architecture_HC	
TPV_Guest	
TPV 🙀	
TPV_Mobile	
🐔 माग	
n Semilab Taiwan	
va Lyrasemi_AP_SF	

5.3. Ethernet

Enable/Disable to turn on/off Ethernet

After enable Ethernet, the settings will show:

- (1) Connection Type (Available connection type: DHCP/Static IP)
 - A. DHCP
 - B. Static IP
 - C. IP Address
 - D. Netmask
 - E. DNS Address



Ethernet	
Main Switch	
Disable	0
Enable	۲
To see available networks, turn Ethernet on.	
Ethernet Configuration	
Connection Type Static IP	
Mac Address 00:24/87:21:57:ea	

5.3.1. DHCP

DHCP mode:

- (1) Cannot modify IP Address, Netmask, DNS Address and Gateway.
- (2) If connect successfully, it will display current network

configuration.

Maintering Control of						
Enable Configuration To see available relations Ethermet Configuration Connection Type O Sace P P Address M024.072157/ss M12172.12 Metmaak 255.252.50.0 D Codeway 172.10.0178 Codeway 172.172.254	Main Switch					
To see available network Emerge Consection Type O	Disable				0	
Etward Configuration Operation Connection Type O Batic P Difference O Batic P Model P Advess 0024.6972137 ea 172.172.12 Metmask 255255250.0 DNA Advess 172.172.12 Value Metmask 172.172.80.178 Utersen Carsenan Utersen Utersenan Utersenan	Enable				۲	
Ethnic Longuidad O Buck P O Back P O Back P O Back P P Adress 02.467 2157 na 172.172.12 D DNA defass 172.172.10.078 C default C default T 72.172.254 C default	To see available network	Ethernet Configuration				
Conscion Type O Static # DirticP P Address MonAddress 172.172.12 Nermaak 255.2552.05.0 Din & Address 172.172.10.178 Gateway 172.172.10.178 Unit of the address 172.172.10.178	Ethernet Configuration					
MacAddress P Address 002x6872167xa 172.172.12 Address 265.580.255.0 DNR Address 172.172.00 Galeway 172.172.254	Connection Type					
0028472137ea Netmak 255255255 DNA Addema 172.180.178 Cateway 172.172.254		IP Address				
265.255.256.0 DNA Addres 172.160.178 Gateway 172.172.254	Mac Address 00:24:67:21:57:ea	172.17.2.12				
DNS Address 172.180.178 Сактему 172.17.2.254		Netmask				
172.180.178 Galeway 172.172.254		255.255.255.0				
Galeway 172.172.254		DNS Address				
172.172.284		172.16.0.178				
172.172.284		Gateway				
DISCARD SAVE						
DISCARD SAVE						
DISCARD SAVE						
		DIS	SCARD	SAVE		
			_	_		

5.3.2. Static IP

In Static IP mode, user can input IP Address, Netmask, DNS address and Gateway

Note:

IP address, netmask, DNS address and gateway address input limitation

(1)	Format:

5.4. Proxy

Browser connect to Proxy server and ask Proxy server to connect some website on Internet.

Enable/Disable to turn on/off Proxy server.

- Click "Enable" to switch proxy function "ON"
- Input the "Proxy hostname". (Proxy server IP address)
- Input the "Proxy port". (Proxy server port number)
- Select an "Type". (Proxy server type.)
- Done.

- If the proxy server is need an authentication to connect, please "check on" the Authentication and input Username & Password.
- If the proxy server is not need an authentication to connect.

Proxy	
Main Switch	
Disable	0
Enable	۲
Proxy settings	
Proxy hostname	
Proxy port	
Туре НТТР	
Authentication	
Authentication	
Usemanne	
Password	

Note:

- Proxy type in HTTP, HTTPS, SOCKS4, SOCKS5 are support.
- Only support the connection through the proxy server with TCP port 80 & 443 & 5228.
- Proxy server with authentication on Windows Sever Series is not support.

5.5. Signage Display

Divide into 4 groups: General Settings / Server Settings / Source Settings / Security

(1) General Settings

- A. Signage Display Name
- B. Boot Logo
- C. Screenshot
- (2) Server Settings
 - A. Email Notification
 - B. FTP
 - C. Remote Control
 - D. SICP Network Port
- (3) Source Settings
 - A. Media Player
 - B. Browser
 - C. CMND & Play
 - D. PDF Player
 - E. Custom app
- (4) Security
 - A. External Storage
- (5) Other
 - A. TeamViewer Support
 - B. Platform Web API

Signage Display	
General settings	
Signage Display Name PD_0024672157ea	
Boot Logo	
Screenshot	
Server settings	
Email Notification	
FTP	
Remote Control	
SCIP Network Port	
Source settings	
Media Player	
Browser	
CMND & Play	
PDF Player	
Custom App	
Security	
External Storage SD card/USB External Storage Unlock	

5.5.1. General Settings

- 1. Signage Display Name
- Set up PD name "PD_" + Ethernet Mac Address.

Note:

*

Input limitation:

- (1) length: Max 36 characters
- (2) format: no limit

Signage Display Name P0_00x04c360011				
Boot Logo				
Screenshot				
SERVER SETTINGS				
Email Notification				
FTP	Please enter Signage Display Name			
Remote Control	PD_00e04c3600f1			
SOURCE SETTINGS				
Media Player	c	ANCEL	OK	
Browser				
CMND & Play				
PDF Player				
Custom App				

2. Boot Logo

1) Scalar OSD menu to control Android boot logo enable/disable Scalar OSD menu operation

RCU: Home -> Configuration2 -> Logo -> On/Off/User

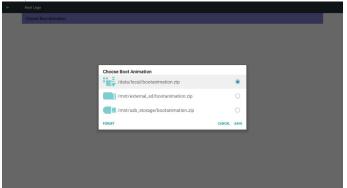
In user mode, user can choose their own boot logo animation file. Note:

(1) Boot animation file name: bootanimation.zip

 $\left(2\right)$ Will pop-up a window for user to select USB and SD card. No priority issue.

Boot Logo

2) When boot logo selected, PD will check if there is bootanimation. zip under USB and SD card.



Function introduction:

a. Option description

/data/local

Use customized boot animation file which is copied from SD card or $\ensuremath{\mathsf{USB}}$

/mnt/external_sd

Use boot animations file under SD card

/mnt/usb_storage

Use boot animations file under USB

b. Save

Press save key to save SD card or USB bootanimation.zip to /data/ local and set it as boot logo.

c. Forget

Press Forget key to delete /data/local bootanimation.zip and not show boot logo.

d. Cancel

Close dialogue w/o changes.

Scenario introduction:

Case 1

The user don't settle customized boot logo. PD does not find any bootanimation.zip file under SD and USB. The list will be blank. Save and Forget button will be gray and useless.

Boot Logo		
	Choose Boot Animation	
	FORGET	CANCEL SAVE
	1.00061	

Case 2

The users do not settle customized boot logo. PD find bootanimation.zip file under SD and USB.The screen will show bootanimation.zip and select the first file automatically.

	Choose Boot Animation		
	/mnt/external_sd/bootanimation.zip		۲
	/mnt/usb_storage/bootanimation.zip		
	FORGET	CANCEL	SAVE

Case 3

The user settle customized boot logo, the screen will show /data/ local/bootanimation.zip.

÷	Boot Logo			
	Choose Boot Animation			
		Choose Boot Animation		
		/data/local/bootanimation.zip		۲
		/mnt/external_sd/bootanimation.zip		0
		/mnt/usb_storage/bootanimation.zip		
		FORGET	CANCEL	SAVE

3) If OSD menu Logo item is On or Off, the users cannot choose boot animation in Android settings.

3. Screenshot

Via Enable/Disable to control screenshot On/Off.

After Enable, user can set screenshot timeslot and save path. Note:

Time slot of deletion and screenshot:

- (1) Will delete picture at initial time 0 sec.
- (2) Will screeshot at first 40 sec.
- (3) Media player, Browser, CMND & play, PDF reader, Custom source are supported.
- (4) Screenshot will not include video container

Screenshot	
Main Switch	
Disable	۲
Enable	0
Screenshot	
Interval 30 minutes	
Start time	
End time	
Repeat	
Save to	
Internal storage	
Purge Screenshots Every Day	
Send screenshots via email	

1) Interval

Set up interval timeframe. 30 mins or 60 mins.

Main Switch			
Disable			۲
Enable			
Screenshot			
Interval			
Start time	Interval		
End time	 30 minutes 		
Repeat	O 60 minutes		
Save to		CANCEL	
Internal storage			
Purge Screenshots			
Every Day Send screenshots via email			

2) Start Time

Set up screenshot start time.

Note:

- (1) If no start time, the screen will show current time automatically
- (2) Just press Back key to exit dialog for Set up
- $\left(3\right)$ Start time cannot be newer than End time. It will show Error toast.



3) End Time

Set up screenshot End time

Main Switch				
Disable				
Enable				۲
Screenshot				
Interval 30 minutes				
Start time 04.39	End time			
End time			CANCEL	
Repeat	0	14 : 41	ок	
Save to Internal storage			_	
Purge Screenshots Every Day				
Send screenshots via en For email settings, please go	nail to Signage Display -> SERVER SETTINGS -> Email Notification.			

Note :

(1) If no End time, the screen will show current time automatically(2) Start time cannot be newer than End time. It will show error toast.

4)Repeat

Set screenshot repeat cycle. User can choose screenshot time frame. (Multiple selection)

Main Switch Disable				۲	
Disable				۲	
Enable					
Screenshot					
Interval	Repeat				
	Sunday				
Start time	Monday				
	🗆 Tuesday				
End time	Wednesday				
	Thursday				
Repeat	Friday				
Save to	Saturday				
Internal storage			CEL OK		
Purge Screenshots Every Day		CAN	CEL OK		
Send screenshots via email					

5)Save to

Set up screenshot save path. Internal storage, SD card or USB storage.)

Note:

picture storage path

(1) In root of internal storage/usb storage/sd card, PD will create folder automatically.

(2) The picture will save to philips/Screenshot/.

Main Switch			۲
Disable			۲
Enable			
Screenshot			
Interval 30 minutes			
	Save to		
Start time 01.23	Internal storage		
End time	O SD card		
	O USB storage		
Repeat			
		CANCEL	
Purge Screenshots Every Day			
Send screenshots via email			

6) Purge Screenshots

Set up purge timeframe. One day or One week.

Main Switch			
Disable			۲
Enable			
Screenshot			
Interval 30 minutes			
Start time		_	
01/23	Purge Screenshots		
End time	Every Day		
01.24	O Every Week		
Repeat		CANCEL	
Save to			
Send screenshots via email			

(7) Send screenshots via email

After check this item, it will send screenshot to email of administrator Please refer to Email notification

Note:

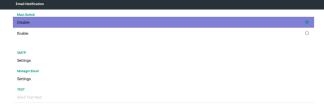
Please confirm Email setting is done.

5.5.2. Server Settings

1. Email Notification

Via Enable/Disable to control Email On/Off)

After Enable, user can set up Email notification configuration.



1) SMTP

Set SMTP configuration)

User can set Gmail account or other mail account.

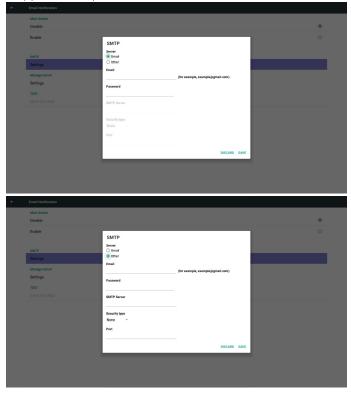
User can select other mail account and set up SMTP server, Security type and port item $% \left({{\left({{{\rm{SMTP}}} \right)}_{\rm{SMTP}}} \right)$

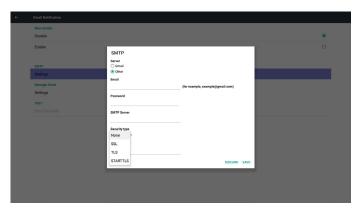
Note

Password input limitation

- (1) Length: 6-20 characters
- (2) Format: no limit

(3) unavailable port: 5000





Gmail safety setting

If Gmail is not working when the settings are completed, please test the Gmail account via a PC and the below link

https://www.google.com/settings/security/lesssecureapps

And confirm on "Access for less secure apps" the "Turn on" item is selected.

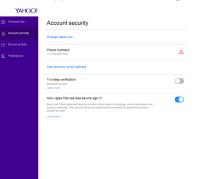
Google

Less secure apps Some apps and devices use less secure sign-in technology, which makes your account more vulnerable. You can **turn off** access for these apps, which we recommend, or **turn on** access if you want to use them despite the risks. Learn more

Access for less secure apps	O Turn off
	Turn on

Yahoo Email Security Setting

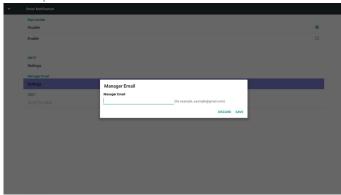
If Yahoo Email is not working when setting complete, please confirm "Allow apps that use less secure sign in" item is enabled.



2)Manager Email

Email

Set up Receiver mail account



3)Test

Send Test Mail

To test Gmail account receive/send function.

Note

(1) When Email is Disable, "Send Test Mail Button" button will gray out

2. FTP

Via Enable/Disable to control FTP On/Off. After set up, PD can share FTP files.

Main Switch	
Disable	۲
Enable	0
FTP	
Account	
Password	
Storage Path Internal storage	
Port 2121	

1) A	ccount
------	--------

Set up FTP account

Note:

Input limitation

(1) Length: 4-20 characters

(2) Format:

I. English a-z and A-Z

II. Number 0-9

Main Switch Disable			۲
Enable			
Account Password			
Storage Path Internal storage	Please Enter Account		
Port 2121	CA	INCEL OK	

2) Password

Set up FTP password.

Note:

Input limitation

(1) Length: 6-20 characters

(2) Format:

I. English a-z and A-Z

II. Number 0-9

FTP password display

(1) Will show '' \ast '' symbol to instead password if set up password via remote control.

(2) After set up, the password text will show as '' \ast '' symbol.

Before password input:

÷			
	Main Switch Disable		۲
	Enable		
	Account		
	Storage Path Internal storage	Please Enter Password	
	Port 2121	CANCEL OK	

After password input:

÷			
	Main Switch Disable		۲
	Enable		
	FTP		
	Account		
	Storage Path Internal storage	Please Enter Password	
	Port 2121	CANCEL OK	

Set up completed screen:

Main Switch	
Disable	۲
Enable	0
FTP	
Account	
Password	
Storage Path Internal storage	
Port 2121	

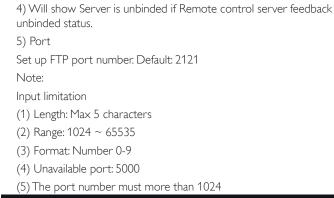
3)Storage Path

Show default path: Internal storage

Note:

Can only display Internal storage, cannot be modified.(Only show path)

FTP	
Main Switch Disable	۲
Enable	0
FTP Account	
Password	
Storage Path Internal storage	
Port 2121	



Main Switch Disable		۲
Enable		
FTP Account		
Password		
Storage Path Internal storage	Please Enter Port 2121	
Port 2121	CANOEL OK	

3. Remote Control

Via Enable/Disable to Control Remote Control On/Off

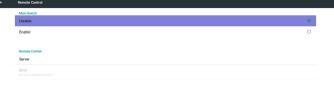
User can input Server address. If server does not registered, it will ask user for $\ensuremath{\mathsf{PIN}}$ code.

Bind status:

(1) Will show network is disconnected if not yet connects to network.

Main Switch	
Disable	۲
Enable	0
Remote Control	
Server	

 $\left(2\right)$ Will show Server is disconnected if network connected but remote control server disconnected.



(3) Will show Server is unbinded if Remote control server feedback unbinded status.



(4) Will show Server is binded if Sever binded successfully.

Remote Control	
Main Switch Disable	0
Enable	۲
Remote Control	
Server 192.166.21.81:7778	
Bind Server is binded	
Bind Server is binded	

(5) Will show Error PIN code if input incorrect PIN code.

Harriote Cantrol	
Main Switch Disable	0
Enable	۲
Remote Control	
Server 192.168.21.81.7778	
Bind Server is unbinded	

Error PIN code.

4. SICP Network Port

Change SICP Network Port.

Note:

÷

- 1. Range: 1025-65535
- 2. unavailable port: 8000 / 9988 / 15220 / 28123 / 28124

5.5.3. Source Settings

- 1. Media Player
- Can Edit Media Player play list and effect settings.



Open Browser setting page.



3. CMND & Play

1) Server
Setup CMND & Play server address
2) Account
Setup CMND & Play account
3) PIN Code
Setup CMND & Play PIN code
(4) Version
There are two options, Ver.2 and Ver.3
Ver. 2
use 2.0/2.2 agreement
Ver. 3
use 3.0/3.1 agreement
(5) Content
There are internal storage/SD card/USB storage 3 options for selecting.

When Ver.2, Server/Account/PIN code will be gray and unavailable.

SmartCMS	
Settings	
Server	
Account	
PIN Code	
Version Ver. 2	
Ver.2	۲
Ver.2 CONTEXT	•

When Ver.3, Server/Account/PIN code is available.

SmartCMS	
Settings	
Server	
Account	
PIN Code	
Version Ver. 3	
CONTENT	
Internal storage	۲
	0
SD card	

(1) Open Media Player Player List edit page.



(2) Open Media Player slideshow effect edit page.



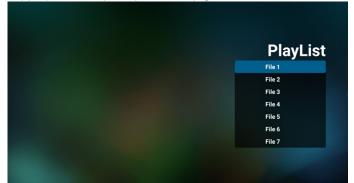
2. Browser

Can edit Bookmark configuration.

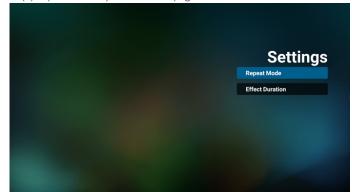
Edit Bookmark

4. PDF Player

(1) Open PDF Player Player List edit page.



(2) Open PDF Player effect edit page.



5. Custom App

User can set up the application for Customer Source. Note

(1) Only display User Installed app.

(2) Will not show up system pre-install app.

Scalar OSD menu operation

RCU: Source -> Custom

If set up customer APK, PD will open customer app when switch source to Customer mode.

If no set up customer APK, PD will show Black screen when switch source to Customer mode.

÷	Custom app
	Select App

Function introduction

Setect App Select App Pay Books Pay Main: Pay Main:	Select App Fry toxis Pry Monie Twifiale Twifiale	Select App Pay Tota Pay Manie butidae	Select App Pry Isola Pry Maile Watcher O	÷	Custom App				
Image: Program basis Image: Program basi	Prey Books Prey Monic Image: Starting of the starting	Pry bols Image: Constraint of the second s	Pry Books Pry Monie						
Fray Boola Pray Model Image: Strate Strat	Prey Tools Prey Tools Prey Tools Prey Tools Prey Tools Prey Tools	Prey Tools Prey Tools Prey Tools Prey Tools Prey Tools Prey Tools	Prey Tools Prey Tools Prey Tools Prey Tools Prey Tools Prey Tools						
Pray toola ● Pray Mosic ○ ► You Nube	Pay boos Pay boos Pay boos Pay boos Pay boos Pay boos	Pay boos Pay boos Pay boos Pay boos Pay boos Pay boos	Pay boos Pay boos Pay boos Pay boos Pay boos Pay boos						
Image from the second secon	Nay Booka ● Pray Mose ○ ► You Tube ○	Nay Booka ● Pray Mose ○ ► You Tube ○	Nay Booka ● Pray Mose ○ ► You Tube ○						
Prog Books Image: Constraint of the second	ing tools	ing tools	ing tools					_	
Proy Mose: O	Prey Monte O	Prey Monte O	Prey Monte O			b.d.		_	
D YouTube	Vulter O	Vulter O	Vulter O			Play Books		۲	
_	_	_	_			Play Music		0	
FORGET CANCEL SAVE	FORGET CANCEL SAVE	PORCET CANCEL BAVE	FORET CANCEL LANE			YouTube		0	
						FORGET	CANCEL	SAVE	

(1) Save

Select App and press Save key to save it.

(2) Forget

Press Forget key to clean previous stored data

(3) Cancel

No change, close window directly

If no customer installed apk, the list will be blank.

No option for choose. Save and Forget key will be gray and unavailable.

	Select App		
	FORGET	CANCEL SAVE	
	FORGET	CANCEL SAVE	
	FORCET	CANCEL SAVE	
	FORSET	CANCEL SAVE	
	1967	CANCEL SAVE	
	Faller	CANCEL SAVE	
	FORMET	CANCEL SAVE	
	1982	CANCEL SAVE	

User can select customer installed apk in list No setup Custom App

Screen will show available apps and focus on first app item automatically.

	Select App			
	Play Books		۲	
	Play Music		0	
	YouTube		0	
	FORGET	CANCEL	SAVE	

After setup, it will show App name

elect App ay Music

Case2. Setup Custom App. (there is a checked circle on right)

Select App Play Music		
Select App		
	Books	0
Server 1	Music	۲
YouT	ube	0
FORGET	CANCEL	SAVE

5.5.4. Security

- 1. External Storage
 - Enable: SD card/USB External Storage Lock.

Disable: SD card/USB External Storage Unlock.

Note:

Must re-plug SD card/USB $\ensuremath{\mathsf{External}}$ Storage after unlock the external storage.

5.5.5. Other

(1) TeamViewer Support

Enable / Disable TeamViewer support.

(2) Platform Web API

Enable / Disable Platform Web API.

5.6. System Tools

- System tools 4 main functions:
 - (1) Clear Storage
 - (2) Factory Reset
 - (3) Import & Export
 - (4) Clone Media Files

	CLEAR STORAGE
	ALL
Ī	Internal storage
	USB storage
	SD card
	RESET
	Factory Reset
	IMPORT & EXPORT
	Export Signage Display Settings
	Import Signage Display Settings
	Clone
	Clone Media Files

5.6.1. Clear Storage

The purpose is to clear all data in Philips folders. Divided into 4 mode:

- (1) Clear all Philips folders
- (2) Only clear Philips folder under Internal storage.
- (3) Only clear Philips folder under USB storage.
- (4) Only clear Philips folder under SD card.

Pop-up the window to display all folders which can be clear.

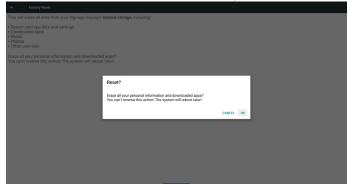
Internal storage		
USB storage		
SD card SD card Fistory Reset All Corr & Sprage Display Settings Import Signage Display Settings Core Core Core Core Moda Files	Clear Storage This will erase all data, including:	
	RESET	

5.6.2. Factory Reset

Factory Reset can recover to Factory default settings.

This will erase all data from your Signage Display's internal
 System and app data and settings Downloaded apps Music Photos Other user data
Erase all your personal information and downloaded apps?

Press OK to execute Reset function automatically.



5.6.3. Import & Export

The function of Import & Export PD settins. Notes.

(1) Settings.db (Saved file name: settings.db)

(2) Will save to Philips folder in storage

5.6.3.1. Export Signage Display Settings

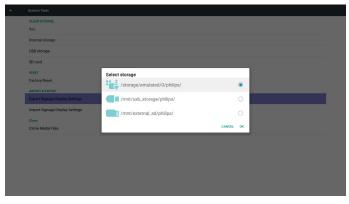
Will export to Philips folder under USB or SD card

- (1) Export settings.db. Include OSD setting, Android settings but "Signage Display Name" and "Boot Logo"
- (2) Export 3rd party apk to Philips/app/

Note:

If no Philips folder exists in USB or SD card, it will be created automatically.

List all available storage (internal/SD/USB)

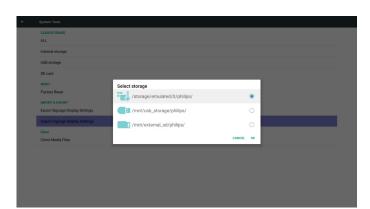


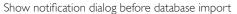
5.6.3.2. Import Signage Display Settings

Import settings.db from Philips folder under USB or SD card.

- (1) Import settings.db. Include OSD setting, Android settings but "Signage Display Name" and "Boot Logo"
- (2) Auto install 3rd party apk from Philips/app/

List all available storage (Internal/SD/USB)





CLEAR STORAGE	
Internal storage	
USB storage	
SD card	
RESET	
Factory Reset	Import Signage Display Settings
IMPORT & EXPORT	Are you sure you want to import the settings and apps?
Export Signage Display Settings	After importing successfully, the system will load the settings, install all apps and reboot automatically.
Clone	CANCEL OK
Clone Media Files	

5.7. Clone Media File

Clone media file from Internal, SD or USB Philips folder.

- 1. The cloned folder name under Philips folder
 - (1) philips/photo
 - (2) philips/music
 - (3) philips/video
 - (4) philips/cms
 - (5) philips/pdf
 - (6) philips/browser
- 2. The cloned file extension name is ".cms")

Clone Source

- (1) Internal storage
 - (a) check FTP
- (b) check /Philips/
- (2) SD / USB
 - Files under root

Target Location

(1) Internal storage

Save to /Philips/

(2) SD / USB

Save to root

Cione Media Files	
Clone Source	
Internal storage	۲
SD card	0
USB storage	0
Path: /storage/emulated/0/philips/	
Target Location	
Internal storage	۲
SD card	0
USB storage	0
Path: /storage/emulated/0/philips/	

County Marced Index Sing and and lock Sing and and lock Lock SM and Imple TH land ender County SM TH

5.11. Date & time

Via Scalar OSD menu to control Auto Time On/Off. Note:

NOLE.

Storage type Hardware-backed Trusted credentials Display trusted CA certificates Install from SD card Install certificates from SD card

Add new NTP server to display current server IP.

÷	Date & time
	Select time zone OMT+01:00 British Summer Time
	NTP Server 2 android pool ritp org

5.8. Display

User can modify the font size, can choose: Small/Normal/Large/Huge

CLONE

5.9. Apps

Display applications information. Note

(1) User options key on RCU to show setting option.

No apps

5.10. Security

Credential storage
 Control panel of certificates

5.12. Developer options

Android developer options. For more information please visit https://developer.android.com/index.html

Developer options	
Take bug report	
Desktop backup password Desktop full backup aren't currently protected	
Stare will never sleep while charging	(2
Process Stats Geeky stats about running processes	
Boot check run direxpt for appe when boot accident detected	0
Debugging	
USB debugging Debug mode when USB is connected	
Bug report shortcut Show a button in the power menu for taking a bug report	0.0
Allow mack locations Allow mack locations	•
Enable view attribute inspection	0.0
Select debug app No debug application set	
Walt for debugger Debugged application waiter for debugger to state the before executing	

5.13. About

Main info in About:

- (1) System updates
- (2) Android version
- (3) Kernel version
- (4) Build number

About	
System updates	
Android version 5.1.1	
Kernel version 3.10.0 5.000L057P	
Build number gl_philips eng 5.1.1 LMY48Y eng wenyuanilas.20160107.121346 test keys PB01.01	

5.13.1.System updates

Will automatically search update.zip in USB. Will be shown in list for user selection if found Note:

- (1) Only support Android Full image.
- (2) file name should be update.zip.
- (3) the file should be located in root of storage.

÷					
	Android version 5.1.1				
	Kernel version 3:10.0 0660L30500				
	Build number pl_philips-eng 5.1.1 LMY48Y eng wenyuaniao.201	60122.114701 test-keys FB01.01			
		Select storage			
		/mnt/usb_storage/update.zip		۲	
		/mnt/external_sd/update.zip			
			CANCEL	ок	

After select update.zip file, PD will restart and start to update.

5.14. Supplementary

5.14.1.Quick Info

You can press "Info + 77" to startup quick info.

Quick info will show "Network" and "Monitor Information", as below: Note:

Operation hours : It is updated every minute.

Heat status : It is updated every 5 seconds.

	2037/01/12 GMT+
letwork	GM I +
Ethernet Mac Address	00:e0:4c:36:00:0f
IP Address	192.168.0.162 Ethernet
IP settings	DHCP
Netmask	255.255.255.0
Gateway	192.168.0.1
fonitor Information	
Android FW version	FB03.01a
Scalar FW version	V0.009
SICP version	V1.92
Monitor ID	
Monitor group	
Model name	86BDL3050Q
Serial NO.	
Operation hours	
Heat status	Sensor 1 28.6*C 83.5*F
	Sensor 2 35.0°C 95.0°F

5.14.2. How to custom an Android boot animation?

1. Overview

The Android boot animation is used script to load PNG files when the device boots. It is contained within an **uncompressed** zip file called **bootanimation.zip**.

- 2. Inside the bootanimation.zip file
- The bootanimation.zip as follow:
- The image folder (Contains PNG images named in incremental numbers)
- The desc.txt file

le Edit Vi	ew Favorites	s Tools Help	
	V	×	ี่ บี
Add Extract	Test Cop	y Move Delet	te Info
D:\Pro	oject\Q_line_2	017\Spec\boota	animation.zip\

(1) The image folder

These contain PNG images named in numbers, starting from something like 0000.png or 0001.png and proceeding with increments of 1.There has to be at least one folder and there is no known upper limit to the number of folders.

(2) The desc.txt file

This file defines how the images in the folder(s) are displayed during the boot animation, in the following format:

- Width Height Frame-rate
- mode Loop delay-time Folder1
- mode Loop delay-time Folder2

An example of a desc.txt file is:

- **-** 1920 1080 30
- p 1 0 part0
- p 0 0 part1

a.The first line

1920 and 1080 define the width and height of the screen resolution.

30 is the frame rate in fps (frames per second) i.e. number of images to display per second.

b. The second and third lines have a same format.

The first 'p' defines play mode is immediately stop playing when boot complete.

The number after 'p' defines repeat mode

- specifying 0 would make the part loop indefinitely till the device has boot complete.
- specifying 1 would make the part playback once.

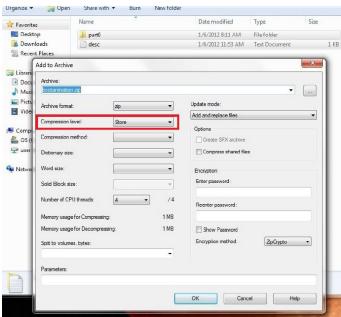
The next number defines the delay time(ms). For example, if set 10, when all image files has been playback, system will delay 10ms. The part0 and part1 are image folder name.

The above example, the boot animation will play at a resolution of 1920 by 1080 pixels, at a frame rate of 30 fps, starting with the contents of part0 folder and after playing them in one loop, switching to contents of part1 folder and playing them continuously till the device boot complete.

3. Zip file:

Select everything (image folders and desc.txt) inside the Bootanimation folder and zip them into a new **uncompressed zip archive** using your favorite compression utility like 7zip or WinRAR and so on.

If using 7zip, set compression level to "Store"



If using WinRAR, set "Compression method" to "Store"

General	Advanced	Options	Files	Backup	Time	Comment	
Archiv	e name					Browse	
boota	nimation.zi	р					×
			Update	mode			
	Profiles		Add an	d replace fi	les		~
() B () Z	ive format AR IP ession metho	d		ring options dete files af eate SF <u>X</u> ar eate <u>s</u> olid a t au <u>t</u> hentici	ter arch chive rchive		
Store		~	-	t recovery		Lauon	
Split to	volumes, by	rtes V		st archived c <u>k</u> archive			

or else bootanimation WON'T work

4. Apply the custom bootanimation

Procedure:

(1). Put your custom bootanimztion.zip file into external SD card or USB and plug into Phillips PD platform.

(2.) Make sure the Logo option is enabled.

Press Home key on RCU: OSD menu -> Configuration 2 -> Logo -> set "User"

(3.) Press combination key "Home + 1888" on RCU to go to Admin mode:

Settings -> Signage Display -> GENERAL SETTINGS -> Boot Logo

(4). The system will find the bootanimation.zip in external SD card or USB automatically and copy it to /data/local

(5.) Once step 1~4 has been done, restart the system. The new customized boot animation should be displayed during boot time.

5.14.3. How to Install Android app?

There are 3 ways to install your own android app.

(a) Via File Manager in Admin Mode

1. If you have apk already

1.1 copy your apk to USB disk or SD card, and then plug them into Philips Android Signage Display.

1.2 Go to Admin Mode > Apps > File Manager

1.3 Using File Manager and find out your apk and then you can install. Just press "ok" on the selected apk.

2. Download apk by Chromium browser, and then go to <internal storage path>/Download/ by File Manager.

2.1 The rest of steps is the same as above. Please note, each model may have different <internal storage path>.

(b) Via Adb Shell

1. Make sure that your PC can connect to Philips Android Signage Display using adb.

2. Prepare your apk in a folder(for example, C:\apkfolder) on PC.

3. Execute the following instruction by command line tool.

C:\apkfolder> adb install -r apk_name.apk

(c) Via Customized Intent

1. If you develop an apk which can download any android app, then your apk can issue a customized intent.

2. Giving the apk name and the path it was stored. The system will help you to install by program.

Description	Intent	Parameters	
		filePath	The absolute file path including the file name.
		Кеер	Indicate that you want to keep the file or not after updating.The default value is false.
Sw Update	php.intent. action. UPDATE_APK	packageName	The target package you want to launch automatically after updating.
	UPDALE_APK	activityName	The target activity you want to launch automatically after updating. But if current top activity is not activityName, nothing happened.

For example,

Intent intent = new Intent();

intent.setAction("php.intent.action.UPDATE_APK");

 $intent.put \ensuremath{\mathsf{Extra}}(``filePath'',`'/sdcard/Download/apk_name.apk'');$

intent.putExtra("keep", true);

intent.putExtra("packageName","com.example.apk_name");

intent.putExtra("activityName", "com.example.apk_name.MainActivity"); sendBroadcast(intent);

6. OSD Menu

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

6.1. Navigating the OSD Menu

6.1.1. Navigating the OSD menu using the remote control



- 1. Press [] button on the remote control to display the OSD menu.
- 2. Press [] or [] button to choose the item you want to adjust.
- 3. Press [OK] or [-] button to enter the submenu.
- In the submenu, press [] or [] button to toggle among items, press
 [] or [] button to adjust settings. If there is a submenu, press
 [OK] or [] button to enter the submenu.
- 5. Press () button to return to the previous menu, or press () button to exit the OSD menu.

6.1.2. Navigating the OSD menu using the display's control buttons

- 1. Press [MENU] button to display the OSD menu.
- 2. Press [+] or [-] button to choose the item you want to adjust.
- 3. Press [+] button to enter the submenu.
- In the submenu, press [▲] or [▼] button to toggle among items, press [+] or [-] button to adjust settings. If there is a submenu, press [+] button to enter the submenu.
- 5. Press [MENU] button to return to the previous menu, or press [MENU] button several times to exit the OSD menu.

6.2. OSD Menu Overview

6.2.1. Picture menu

Picture	Brightness	90
Screen	Contrast	50
Audio	Sharpness	20
Configuration 1	Black level	50
Configuration 2	Tint	50
Advanced option	Color	55
	Noise reduction	Medium
	Gamma selection	Native
	Color temperature	Native
	Color control	Action
	Smart power	Off
	Overscan	Off

Brightness(Picture)

Adjust the overall image and background screen brightness(backlight).

Contrast

Adjust the image contrast ratio for the input signal.

Sharpness

This function is digitally capable to keep crisp image at any timings.

It is adjustable to get a distinct image or a soft one as you prefer and set independently for each picture mode.

Black level

Adjust the image brightness for the background.

NOTE: sRGB picture mode is standard and cannot be changed.

Tint (Hue)

Adjust the tint of the screen.

Press + button the flesh tone color becomes greenish. Press - button the flesh tone color becomes purplish.

NOTE: VIDEO mode only.

Color(Saturation)

Adjust the color of the screen.

Press + button to increase color depth.

Press - button to decrease color depth. NOTE:VIDEO mode only

Noise Reduction

Adjust the noise reduction level.

Gamma selection

Select a display gamma. It's refer to the brightness performance curve of signal input. Choose from {Native} / {2.2} / {2.4} / {s gamma} / {D-image}. NOTE: sRGB picture mode is standard and cannot be changed.

Color temperature

It is used to adjust the color temperature.

The image becomes reddish as the color temperature decreases, and becomes bluish as the color temperature increases.

сст	10000° K	9300 ° K	7500 ° K	6500 ° K	5000 ° K	4000 ° K	3000 ° K
X	0.279 ± 0.030	0.283 ± 0.030	0.299 ± 0.030	0.313 ± 0.030	0.346± 0.030	0.382± 0.030	0.440± 0.030
Y	0.292 ± 0.030	0.298 ± 0.030	0.315 ± 0.030	0.329 ± 0.030	0.359± 0.030	0.384± 0.030	0.403± 0.030

Color control

The color levels of red, green, and blue are adjusted by the color bars. R: Red gain, G: Green gain, B: Blue gain.

Smart power

Smart Power control is not relative to brightness control:

- 1. Initial setting Brigthness
 - 70 (in the range from 0-100)

Power consumption 70% of maximum power consumption

- 2. Smart Power
 - OFF: no adaptation

MEDIUM: 80% of power consumption relative to current settings HIGH: 65% of power consumption relative to current settings

Overscan

Change the display area of the image.

ON: Set to display area about 95%.

OFF: Set to display area about 100%.

Picture reset

Reset all settings in the Picture menu.

Select "Yes" and press "SET" button to restore to factory preset data. Press "EXIT" button to cancel and then return to the previous menu.

6.2.2. Screen menu

Picture	H position	50
Screen	V position	50
Audio	Clock	97
Configuration 1	Zoom mode	Full
Configuration 2	Custom zoom	Action
Advanced option	Auto adjust	Action
	Screen reset	Action

H position

Control Horizontal Image position within the display area of the LCD. Press + button to move screen to right.

Press - button to move screen to left.

NOTE:VGA input only.

V position

Control Vertical Image position within the display area of the LCD.

Press + button to move screen to up.

Press - button to move screen to down.

NOTE:VGA input only.

Clock

 $\ensuremath{\mathsf{Press}}$ + button to expand the width of the image on the screen the right.

Press - button to narrow the width of the image on the screen the left. NOTE:VGA input only.

Zoom mode

HDMI, DP,VGA, OPS: {Full} / {4:3} / {Real} / {21:9}/ {Custom}.

Playing media in Media Player : {Full} / {4:3} / {Real} / {21:9}

There are no function when BROWSER, CMND & Play, PDF Player, PDF Player, Custom and Media Player UI and Android UI

Zoom Mode will be "Full" when tiling

Full This mode restores the correct proportions of pictures transmitted in 16:9 using the full screen display.
4:3 The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture.
Real This mode displays the image pixel-by-pixel on screen without scaling the original image size.
16:9 The picture is reproduced in 16:9 format and a black band at the top and bottom.
21:9 The picture is reproduced in 21:9 format and a black band at the top and bottom.
Custom Choose to apply the custom zoom settings in the Custom Zoom submenu.

Custom zoom

You can use this function to further customize the zoom settings to suit the image you want to display.

NOTE: This item is functional only when the {Zoom mode} is set to {Custom}.

	Zoom Expands the horizontal and vertical sizes of the image simultaneously.
	H zoom Expands the horizontal size of the image only.
	V zoom Expands the vertical size of the image only.
	H position Moves the horizontal position of the image left or right.
1 ↓	V position Moves the vertical position of the image up or down.

Auto adjust

Press ''Set'' to detect and adjust H position, V position, Clock, Phase automatically.

NOTE:VGA input only.

Screen reset

Reset all settings in the Screen menu to factory preset values.

6.2.3. Audio menu

Picture	Balance	50
Screen	Treble	50
Audio	Bass	50
Configuration 1	Volume	30
Configuration 2	Audio Out (Line Out)	30
Advanced option	Maximum Volume	100
	Minimum Volume	0
	Mute	Off
	Audio source	Digital
	Audio reset	Action
	Audio Out Sync	Off

Balance

Adjust to emphasize left or right audio output balance.

Treble

Adjust to increase or decrease higher-pitched sounds.

Bass

Adjust to increase or decrease lower-pitched sounds.

Volume

Adjust to increase or decrease the audio output level.

Audio out (line out)

Adjust to increase or decrease line out output level.

Maximum volume

Adjust your own limitation for the maximum volume setting. This stops the volume from being playing at too loud a level.

Minimum volume

Adjust your own limitation for the minimum volume setting.

Mute

Turn the mute function on/off.

Audio source

Select the audio input source. There are no audio output when no video signal.

Analog: audio from audio input Digital : audio from HDMI audio.

Audio reset

Reset all settings in the Audio menu to factory preset values.

Audio Out Sync

Enable/disable audio out (line out) volume adjustability to sync with internal speakers.

6.2.4. Configuration1 menu

Picture	Switch on state	Force on
Screen	Panel saving	Action
Audio	RS232 routing	RS232
Configuration 1	Boot on source	Action
Configuration 2	WOL	Off
Advanced option	Configuration1 reset	Action
	Factory reset	Action

Switch on state

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

- {**Power off**} The display will remain off when the power cord is connected to a wall outlet.
- {Forced on} The display will turn on 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.

Panel saving

Choose to enable the panel saving functions and thus reduce the risk of "image persistence" or "ghost-imaging".

- {Brightness} Select {On} and the image brightness will be reduced to an appropriate level. The Brightness setting in the Picture menu will be unavailable when selected.
- {Pixel shift} Select the time interval ({Auto} / {10 ~ 900} Seconds/ {Off}) for the display to slightly expand the image size and shift the position of pixels in four directions (up, down, left, or right). Activating Pixel Shift will disable H Position, V Position and Zoom Mode in the Screen Menu.

Note: Only support external input source (HDMI, VGA, DP, OPS).

RS232-Routing

Select the network control port.

Choose from: {RS232} / {LAN -> RS232} / {CardOPSRS232 (OPS model only)}.

Boot on source

Choose to select source when boot up.

Input: select input source when boot up.

Playlist: select playlist index for Media player, Browser, PDF player.

0: no play list. Same as switch source from OSD.1~7: playlist number. No failover function, system will keep source even the source is no signal input.

Wake on Lan (WOL)

Choose to turn on or off the wake on LAN function. Choose from : {Off} / { On}

Configuration1 reset

Reset all settings in **Configuration1** menu to the factory preset values.

Factory reset

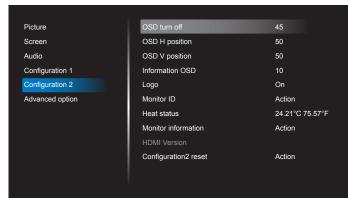
Reset all settings in the OSD menus of {Picture}, {Screen}, {Audio}, {Configuration1}, {Configuration2}, and {Advanced option} to the factory preset values.

Android settings will also reset when factory reset.

Press [-] or [-] button to select {**Reset**}, and press [OK] button to do the reset.



6.2.5. Configuration2 menu



OSD turn off

Set the period of time the OSD (on-screen display) menu stays on the screen.

The options are: {Off, 5 ~ 120} seconds.

*{Off} does not disappear automatically.

OSD H-position

Adjust the horizontal position of the OSD menu.

OSD V-position

Adjust the vertical position of the OSD menu.

Information OSD

Set the period of time the information OSD is displayed on the upper right corner of the screen. The information OSD will display when input signal is changed.

The information OSD will remain on the screen with {Off} selection.

The options are: {1 ~ 60} seconds.

Logo

Choose to enable or disable the picture of Logo when turn on your display.

The options are:

- {Off}
- {On} (Default)
- {User}
- 1. If Logo set to ON, both scalar Philips logo and android animation Philips logo will show.
- 2. If Log set to OFF, neither scalar Philips logo nor android animation logo will not show.

- 3. If Logo set to USER, custom logo option in android is not set, then there will be no boot logo when power on.
- 4. If Logo set to USER, custom logo option in android is set, there will be only custom logo when power up.
- * Logo will NOT rotate with rotation setting/detection.

Monitor ID

Set 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.

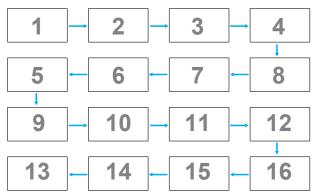
The option are: {Monitor group}

Monitor ID	
Monitor ID	1
Monitor group	1

• {Monitor group}

The options are: {**Off**} / {**1-254**}

- {Off} {Monitor group} are not supported.
- {1-254} {Monitor group} are supported.The default setting is 1.



Heat status

This function allows you to check the thermal status at any time.

Monitor information

Shows information about your display, including model number, serial number, operating hours and software version.

Monitor information	
Model name	86BDL3050Q
Serial NO.	N/A
Operation hours	0
SW Version	FB01.06

HDMI Version

Set the HDMI version to 1.4 or 2.0, this setting is only valid on HDMI input

Configuration2 reset

Reset all settings in Configuration2 menu to the factory preset values.

6.2.6. Advanced option menu

Picture	IR control	Unlock
Screen	Power LED Light	On
Audio	Keyboard control	Unlock
Configuration 1	Tiling	Action
Configuration 2	Off Timer	Off
Advanced option	Date and time	Action
	Schedule	Action
	HDMI with One Wire	Off
	Language	English
	OSD Transparency	Off
	Power Save	Mode 1
	Advanced option reset	Action

IR control

Select the operation mode of the remote control when multiple displays are connected via an RS232C connection.

- {Unlock} All displays can be operated normally by the remote control unit.
- {**Primary**} Designate this display as the primary display for remote control operation. Only this display can be operated by the remote control. (In primary mode, IR key will always be processed regardless the monitor id/group settings).
- {Secondary} Designate this display as the secondary display. This display can not be operated by the remote control, and will only receive the control signal from the primary display via the RS232C connection.
- {Lock All} / {Lock all but Volume} / {Lock all but Power} / {Lock all except PVVR & VOL}- Lock the remote control function of this display. To unlock, press and hold the [i] INFO button on the remote control for 6 (six) seconds.

Power LED light

Choose to set power indicate LED on or off.

Choose **{On}** for normal use.

Keyboard control

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

- {Unlock} Enable the keyboard function.
- {Lock All} / {Lock all but Volume} / {Lock all but Power} / {Lock all except PWR &VOL} Disable the keyboard function.
- NOTE: "Keyboard Control Lock Mode"This function completely disables the access to all Keyboard Control functions. To enable or disable the keyboard control lock, press both [+] and [] buttons and hold down continuously for more than 3 seconds.

Tiling

With this function you can create a single large-screen matrix (video wall) that consists of up to 150 sets of this display **(up to 10-sets on the vertical and 15-sets on the horizontal sides)**. This function requires a daisy-chain connection.

- Switch on delay: Set the power-on delaying time (in seconds). The default option {Auto} allows a sequential powering-on for each display by their ID number when multiple displays are connected. The options are: {Off (0) / Auto(1) / 2-255}
- Brightness: {Normal}/{ACS}
 - {**Normal**}: Adjust the overall image and background screen brightness (backlight).

- {ACS}: Apply brightness value (backlight) which is adjusted by MIC tool. The default value before adjustment is the same as OSD brightness value, e.g., 70)
- Type: {Off} (Default)/{SW Tool}/{OSD Only}
- Source resolution: {Full HD}(Default)/ {4K}
- H monitors Select the number of displays on the horizontal side.
- V monitors Select the number of displays on the vertical side.
- **Position** Select the position of this display in the screen matrix.
- Frame comp. Choose to turn the frame compensation function on or off. If selected {Yes}, the display will adjust the image to compensate for the width of the display bezels in order to accurately display the image.
- NOTE: Doesn't support screen format function in tiling using cascade mode.

Off Timer

Set automatically power off time (in hours).

Date and time

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

Date and time		
Auto Sync		\checkmark
Set date		
Choose time zone London, Dublin		-
GMT+1:00		
NTP Server	2.android.pool.ntp.org	
Current date time	2017/06/27 13:17:33	

- 1. Press [OK] button to enter or choose
- 2. Press [1] back button to return.
- 3. Press [] or [] button to adjust them.
 - * Cannot set time to date after year 2037.

Schedule

This function allows you to program up to 7 (seven) different scheduled time intervals for the display to activate.

Schedule	
Schedule list	1
Enable	
Start time	
End time	
Input	
Playlist	
Days of the week	
Every week	
Back	SAVE

- Schedule list: You can set 7 schedules.
- **Enable:** Enable/disable schedule. If set start/end time is conflict or empty, input is empty or time conflict with other schedule list, you cannot enable schedule.
- Start time: Set start time.
- End time: Set end time.
- Input: Platform will go to this select source automatically after the schedule on.
- Play list: 1 7 : playback File1 File7 of playlist automatically, only media player, pdf player and browser can set.
- Days of the week: Set Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.
- Every week: Set lifecycle.
- Back: Does not change schedule data.
- Save: Save schedule data.

HDMI with One Wire

CEC control.

- {Off} Disable CEC.(Default)
- {On} Enable CEC.

Language

Select the language used in the OSD menu.

The options are: English/Deutsch/ 简体中文 /Français/Italiano/Español/ Русский/Polski/Türkçe/ 繁體中文 / 日本語 /Português/ العربية/Danish/ Svenska/Finnish/Norsk/Nederlands.

OSD Transparency

Adjust OSD transparency.

- {Off} Transparency off.
- {1-100} Transparency level 1-100.

Power Save

Mode 1 [TCP off, WOL on, auto off]

Mode 2 [TCP off, WOL on, auto on/off]

Mode 3 [TCP on, WOL off, auto on/off]

Mode 4 [TCP on, WOL off, no auto on/off]

Power save modes

Mode 1: DC off -> Power off. LED: Red.

Power Save -> Power off, LED: Red

Mode 2: DC off -> Power off, LED: Red.

Power Save -> Power Saving. LED: Orange. Can be wake up.

Mode 3: DC off -> Back light off, LED: Red

Power Save -> Back light off, LED: Orange. Can be wake up.

Mode 4: DC off -> Back light off, LED: Red

Power Save -> Will not enter power save mode. show "no signal" only.

	RCU Power Button Off	No Signal	WoL	Android (ARM)
Mode 1 [TCP off, WOL on, auto off]	DC OFF	DC OFF	V	ARM OFF
Mode 2 [TCP off, WOL on, auto on/off] (gary out)	DC OFF	When signal is back, system wake up	V	ARM OFF
Mode 3 [TCP off, WOL off, auto on/off]	Backlight OFF	Backlight OFF	Х	ARM OFF
Mode 4 [TCP off, WOL off, no auto on/off]	Backlight OFF	Backlight ON, show no signal	X	ARM OFF

* This product does not support Mode 2

Following table is the action for Android board with different power mode.

DC off/on: press power button by RC

Power mode in OSD	Mode 1/2	Mode 3/4
DC off		 The current source APK(such as MediaPlayer, Broswer, PDF or SmartCMS) will be closed. Android system will go to the default black launcher.
DC on	Boot up	1. Android system reboots

Advanced option reset

Reset all settings except {**Date and Time**} in the **Advanced option** menu to factory preset values.

- 1. Press [OK] or [-] button to enter the submenu.
- 2. Press [-] or [-] button to select {Reset} and press the [OK] button to restore settings to factory preset values.
- 3. Press the [**S**] button or select {**Cancel**} and press the [**OK**] button to cancel and then return to the previous menu.

7. Supported Media Formats

USB Multimedia Codec Formats

Video Decode						
Туре	Video Codec	Container	Decode	Encode	Channel	Remark
MPEG1/2	MPEG1/2	MPEG program stream (.DAT, .VOB, .MPG, .MPEG) MPEG transport stream (.ts) MP4 (.mp4) AVI (.avi) MKV (.mkv)	V			Max Resolution: 1080P@60fps Max Bit Rats : 40Mbps
MPEG-4	MPEG4	MP4 (.mp4) AVI (.avi) MKV (.mkv)	V			Max Resolution: 1080P@60fps Max Bit Rats : 40Mbps
H.263	H.263	FLV (.flv) AVI (.avi)	V			Max Resolution: 1080P@60fps Max Bit Rats : 40Mbps
H.264	H.264	FLV (.flv) MP4 (.mp4) MPEG transport stream (.ts) ASF (.asf) WMV (.wmv) AVI (.avi) MKV (.mkv)	V			Max Resolution: 1080P@60fps Max Bit Rats : 135Mbps 4K2K@30fps
H.265	H.265	MP4 (.mp4) MPEG transport stream (.ts) MKV (.mkv)	V			Max Resolution: 4K2K@60fps Max Bit Rats : 100Mbps
GOOGLE VP8	VP8	MKV (.mkv) WebM (.webm)	V			Max Resolution: 1080P@30fps Max Bit Rats : 20Mbps
Motion JPEG	MJPEG	AVI (.avi) MP4 (.mp4) MKV (.mkv)	V			Max Resolution: 1920*1080 @30fps Max Bit Rats : 40Mbps

Audio Decode

Туре	Audio Codec	Container	Decode	Encode	Channel	Remark
MPEG Audio	MPEG1/2/2.5 Audio	MP3			n	Bit Rate: 8kbps~320Kbps
	Layer1/2/3	5 11 1	v		2	Sampling Rate: 16KHZ~48KHz
	WMA Version 7, 8,					Bit Rate: 8kbps~768Kbps
	9,10 pro M0, 10Pro Decode: WMA	V		2	Sampling Rate: 8KHZ~96(M10)KHz	
	M1,M10 Pro M2					Non-support LBR
	MAIN, ADIF , ATDS Header AAC-LC and	File Format: AAC M4A	V		5.1	Bit Rate: N/A
	AAC-HE	C and File Format: AAC, M4A			J.1	Sampling Rate: 8KHZ~48KHz

Image Decode

Туре	Image Codec	Photo	Decode	Encode	Channel	Remark
JPEG	JFIF file format 1.02	File Format: JPG, JPEG	V			Max Resolution: 7000 × 7000 The limitation of max resolution depends on DRAM
BMP	BMP	File Format: BMP	V			Max Resolution: 15360 x 8640 The limitation of max resolution depends on DRAM
PNG	PNG	File Format: PNG	V			Max Resolution: 15360 x 8640 The limitation of max resolution depends on DRAM

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.

8. Input Mode

VGA Resolution:

Standard	Active R	esolution	Refresh Rate	Pixel Rate	Assact Datia	Stand for Mode
Resolution	H Pixels	V Lines	Refresh Rate	Fixer Nale	Aspect Ratio	Stand for Prode
			60 Hz	25.175 MHz		
VGA	640	480	72 Hz	31.5 MHz	4:3	Video Graphic Array
			75 Hz	31.5 MHz		
WVGA	720	400	70 Hz	33.75 MHz	16:9	Wide Video Graphic Array
	800	600	60 Hz	40 MHz	4:3	
SVGA	800	600	75 Hz	49.5 MHz	4:3	SuperVGA
XGA	1024	768	60 Hz	65 MHz	4:3	Fitzeded Circebie Armeri
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	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

Note: 1280x768@60Hz can be supported but not shown in EDID table.

SD Resolution:

Standard Resolution	Active Resolution		Refresh Rate	Pixel Rate	Assact Datio
Stanuaru Resolution	H Pixels	V Lines	Refresh Rate	FIXEI Nale	Aspect Ratio
480i	720	480	29.97 Hz	13.5 MHz	4:3
480p	720 100	400	59.94 Hz	27 MHz	4:5
576i	720	576	25 Hz	13.5 MHz	4:3
576р	720	576	50 Hz	27 MHz	4:5

HD Resolution:

Standard Resolution	Active Resolution		Refresh Rate	Pixel Rate	Assact Datia
Standard Resolution	H Pixels	V Lines	Refresh Rale	Fixer Rale	Aspect Ratio
720-2	1280	720	50 Hz	74.25 MHz	16:9
720р	1200	720	60 Hz		10.7
1080i	1920	1080	25 Hz	74.25 MHz	16:9
10001	1720	1060	30 Hz	74,2311112	10.7
1000-	1920	1080	50 Hz	148.5 MHz	16:9
1080p	1720	1060	60 Hz		10.7
			30 Hz	297 MHz	
2160p (HDMI only)	DMI only) 3840 2160	2160	50 Hz	594 MHz	16:9
			60 Hz		

Note: OPS/DisplayPort support 3840x2160@30Hz.

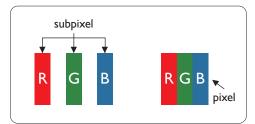
- The PC text quality is optimum in HD 1080 mode (1920 × 1080, 60Hz).
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows).
- Check your PC instruction book for information about connecting your PC to a display.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5KHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the [INPUT] button to enter the video mode. Also, make sure that the PC is connected.
- When horizontal synchronous signals seem irregular in RGB mode, check PC power saving mode or cable connections.
- The display settings table complies to the IBM/VESA standards, and based on the analog input.
- The DVI support mode is regarded as same to the PC support mode.
- The best timing for the vertical frequency to each mode is 60Hz.
- Resolution 3840x2160 50/60Hz must be equipped with HDMI certified cable(Premium High Speed HDMI Cables).

9. 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.

9.1. Pixels and Sub-Pixels



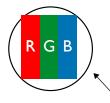
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels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

9.2. 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.

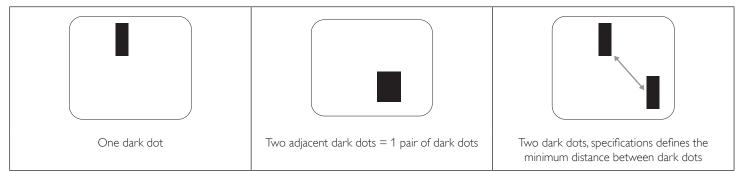
9.3. Bright Dot Defects

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



9.4. 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:



9.5. 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

9.6. 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

9.7. 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

10. Cleaning and Troubleshooting

10.1. 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.

10.2. 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 set correctly. Scan Mode may be set incorrectly to underscan. If the image exceeds the screen size, Scan Mode may need to be set to Underscan. 	Use the Zoom mode or Custom zoom function in the Screen menu to fine tune display geometry and time frequency parameter:
Can hear sound, but no picture	Improperly connected source signal cable.	Make sure that both video inputs and sound inputs are correctly connected.
Can see picture but no sound is heard	 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 [I) 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.

How to setup the settings in the menu to control all the monitors at the same time and individually via RC?	Daisy chained by RS232 and no IR cable	1.The first display sets as "Primary" on OSD (Advanced option/IR control item), others set as "Secondary".
		2.The setup OSD will show on Top-Left of display. (Toggle MENU will show again if it disappear)
		3. Default setting: ID NO: 0, GP NO: 0, this setting can control all displays by IR.
		The "+", "-" can change "ID NO" to control signal display by "Monitor ID".
		The "UP", "DOWN" can change "GP NO" to control multi-display by "Group ID".
		*The first display always be controlled by IR.
How is the RC working?	Daisy chain : no RS232 connected and IR cable	No need setting, just to connect with IR cables and control by IR.
		*This way has out-of-synchronizm phenomenon. Suggest to use above setting with RS-232 cable.

11. Technical Specifications

Display:

ltem	Specifications
Screen Size (Active Area)	217.4 cm / 85.6 inches
Aspect Ratio	16:9
Number of pixels	3840 (H) × 2160 (V)
Pixel pitch	0.4935 (H) × 0.4935 (V) [mm]
Displayable colors	10 bits(D), 1.07 Billion colors
Brightness (typical)	410 cd/m ²
Contrast ratio (typical)	1200:1
Viewing angle	178 degrees

In/Out Terminals:

Item		Specifications	
Speaker Output	Internal Speakers	10W (L) + 10W (R) [RMS]/8Ω 82 dB/W/M/160 Hz ~ 13 KHz	
Audio Output	RCA R/L x 1	0.5V [rms] (Normal) / 2 Channel (L+R)	
Audio Input	3.5mm phone jack x 1	0.5V [rms] (Normal) / 2 Channel (L+R)	
RS232C	2.5mm Phone jack × 2	RS232C in/RS232C out	
RJ-45	RJ-45 Jack x 1 (8 pin)	10/100 LAN Port	
HDMI Input	HDMI Jack x 4 (Type A) (19 pin)	Digital RGB:TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 × 2160/60 Hz Audio - 48 KHz/ 2 Channel (L+R) Supports LPCM only	
VGA Input	D-SUB jack (15pin)	Digital RGB:TMDS (Video) Analog RGB: 0.7V [p-p] (75Ω), H/CS/V:TTL (2.2kΩ), MAX: 1920 × 1080/60 Hz (WUXGA)	
Displayport in	Displayport Jack x 1 (20 pin)	Digital RGB:TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 × 2160/30 Hz Audio - 48 KHz / 2 Channel (L+R) Supports LPCM only	
OPS Input	Plug connector (80 pin)	TMDS 3840x2160@30Hz	
USB Input	USB2.0 TypeA x2 USB3.0 TypeA x1	USB2.0 USB3.0	
USB Output	USB2.0 TypeA ×1	5V/2A	

General:

Specifications	
100 - 240V~, 50 - 60Hz, 8.5A	
100 - 240V~, 50 - 60Hz, 2.5A	
430 VV	
290 W	
<0.5 W	
1927.9 x 1098.9 x 85.9 mm	
63.8 Kg	
83.0 Kg	

Product Fiche :

Item	Specifications
Energy Efficiency Class	В
Visible Screen Size	217.4 cm / 85.6 inches
On Mode Power Consumption (W)	302 W
Annual Energy Consumption (kWh)	441 kWh
Standby Power Consumption (W)	0.50 W
Off Mode Power Consumption (W)	0.50 W
Display Resolution (Pixels)	3840 × 2160
Network Standby (W)	2 W

Environmental Condition:

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



2017 © Koninklijke Philips N.V. All rights reserved.

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. and are used under license from Koninklijke Philips N.V.

Specifications are subject to change without notice.