# **75BDL4150D** V1.22



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.
- Keep the display away from oil, otherwise the plastic cover may be damaged.
- 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.

#### Stability Hazard.

The device may fall, causing serious personal injury or death. To prevent injury, this device must be securely attached to the floor/wall in accordance with the installation instructions.

#### 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.
- If provided with a 3-pin attachment plug on the power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.

## **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), and Radio Equipment Directive (2014/53/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 digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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.

Envision Peripherals Inc. 490 N McCarthy Blvd, Suite #120 Milpitas, CA 95035 USA

## **Europe – EU Declaration of Conformity**

This device complies with the essential requirements of the Radio Equipment Directive (2014/53/EU). The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the Radio Equipment Directive (2014/53/EU):

- EN60950-1/EN62311/EN300328/EN301893/EN301489

## **Europe Statement**

#### **IMPORTANT NOTE:**

The device is restricted to indoor use only when operating in the 5150 to 5350MHz frequency range.

AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	EL	HU	IE
IT	LV	LT	LU	MT	NL	PL
PT	RO	SK	SI	ES	SE	UK

#### **Radiation Exposure Statement:**

This equipment complies with CE radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & body.

The frequency, mode and the maximum transmitted power in EU are listed below:

2412-2472MHz(802.11g 6Mbps): 19.98dBm

2402-2480MHz (EDR 3Mbps): 9.65dBm

2402-2480MHz (LE 1Mbps): 9.80dBm

5180-5240/5260-5320/5500-5700MHz (802.11 ac VHT40 MCS0/NSS1): 22.95dBm

## Taiwan:

## 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加 大功率或變更原設計之特性及功能。

第十四條低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用, 並改善至無干擾時方得繼續使用。

前項合法通信,指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

## Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5GHz products are restricted to indoor usage only.

## **Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## 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 indésirable.

## **Radiation Exposure Statement:**

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

## **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.

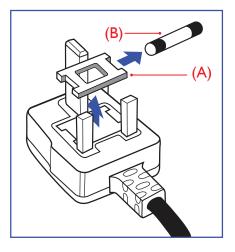
# Pozostałe instrukcje bezpieczeństwa

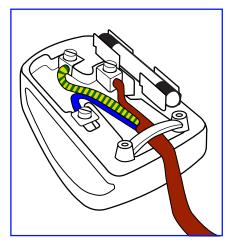
- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami 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《电器电子产品有害物质限制使用管理办法》,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	×	0	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	Х	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。



环保使用期限

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。

# 《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,不当利用或 者处置可能会对环境和人类健康造成影响。

## 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 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr⁺ <sup>6</sup> )	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)		
塑料外框	0	0	0	0	0	0		
後殼	0	0	0	0	0	0		
液晶面板	—	0	0	0	0	0		
電路板組件	_	0	0	0	0	0		
底座	0	0	0	0	0	0		
電源線	_	0	0	0	0	0		
其他線材	_	0	0	0	0	0		
遙控器	_	0	0	0	0	0		
喇叭(選配)	_	0	0	0	0	0		
風扇(選配)	_	0	0	0	0	0		
	該項限用物質	う百分比含量・	未超出百分比会	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.



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

(Only applicable to the model of application)

#### 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)

E-mail: india.callcentre@tpv-tech.com

#### 75BDL4150D

#### **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

#### Information for FAC:

"Подтверждение соответствия Мининформсвязи России: Декларация соответствия № Д-PD-4342 от 01.09.2016 года, действительна до 01.09.2024 года, зарегистрирована в Федеральном агенстве связи 14.09.2016 года"

# Table Of Contents

1.	Unpa	cking and Installation	1
	1.1.	Transportation and Unpacking	1
	1.2.	Package Contents	4
	1.3.	Installation Notes	
	1.4.	Mounting on a Wall	5
	1.5.	Mounting in Portrait Position	6
2.	Parts	and Functions	7
	2.1.	Control Panel	7
	2.2.	Input/Output Terminals	8
	2.3.	Remote Control	10
	2.4.	SD card Cover	14
	2.5.	4G Module	14
3.	Conn	ecting External Equipment	15
	3.1.	Connecting External Equipment (DVD/VCR/	
		VCD)	15
	3.2.	Connecting a PC	15
	3.3.	Connecting Audio Equipment	16
	3.4.	Connecting Multiple Displays in a Daisy-chain	
		Configuration	
	3.5.	IR connection	
	3.6.	IR Pass-through Connection	19
4.	Opera	ation	20
	4.1.	Watch the Connected Video Source	20
	4.2.	Change Picture Format	20
	4.3.	Overview	20
	4.4.	Media Player	22
	4.5.	Browser manual	25
	4.6.	PDF Player	27
	4.7.	CMND & Play	30
	4.8.	Custom App	31
5.	Settin	g	32
	5.1.	Wi-Fi	32
	5.2.	Ethernet	32
	5.3.	More (Only show up when 4G module	
		connected)	
	5.4.	Signage Display	32
	5.5.	Display	40
	5.6.	Apps	40
	5.7.	Security	
	5.8.	Date & time	41
	5.9.	Developer options	41
	5.10.	About	41
	5.11.	Supplementary	42

6.	OSD	Menu	44
	6.1.	Navigating the OSD Menu	
	6.2.	OSD Menu Overview	
7.	Suppo	orted Media Formats	53
8.	Input	Mode	55
9.	Pixel	Defect Policy	57
	9.1.	Pixels and Sub-Pixels	57
	9.2.	Types of Pixel Defects + Dot Definition	57
	9.3.	Bright Dot Defects	57
	9.4.	Dark Dot Defects	58
	9.5.	Proximity of Pixel Defects	58
	9.6.	Pixel Defect Tolerances	
	9.7.	MURA	58
10.	Clean	ing and Troubleshooting	59
	10.1.	Cleaning	59
	10.2.	Troubleshooting	60
11.	Techn	ical Specifications	62

# 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.



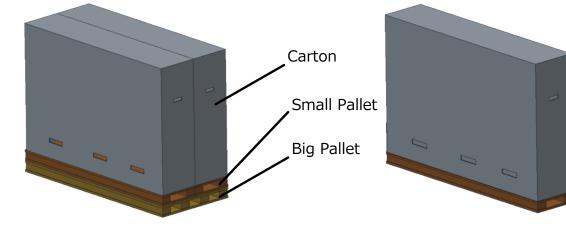
• Move single carton with small pallet by stacker.

• Don't impact the carton.



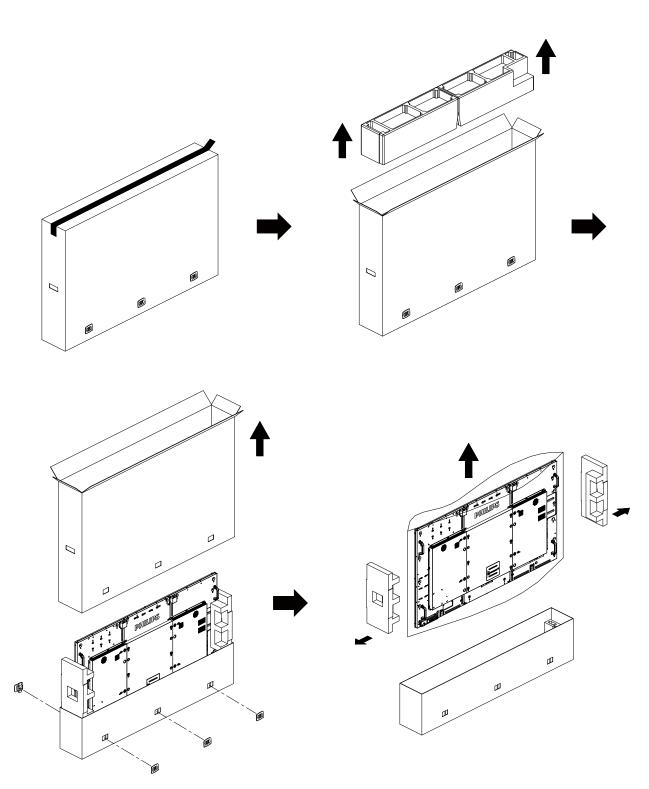
• Don't tip over the carton.



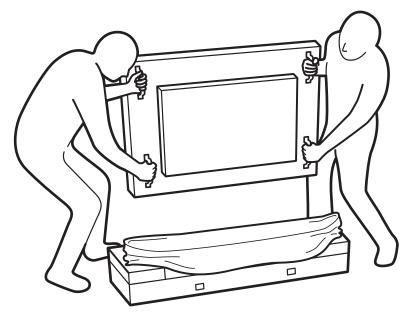


#### Notice for transportation

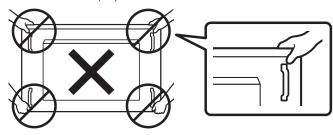
- 1. Remove the strap around the carton.
- 2. Use blade to cut the tape on the top, and open the carton.
- 3. Take out the cushions carefully.
- 4. Remove the plastic carton lockers and remove the top carton.

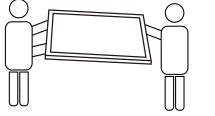


5. With the help of another person to move the display out of the bottom carton.

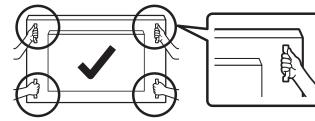


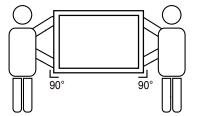
Do not touch the screen of display. Please use the handles • Keep vertical direction when moving the display. to move the display.





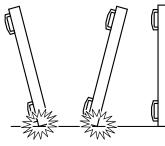




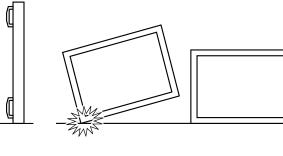




• Do not let the edge of display to touch the hard surface such as floor or table.



٠



#### 75BDL4150D

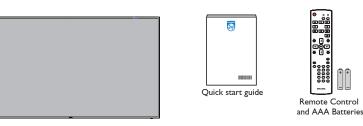
#### Before install the display

- 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.

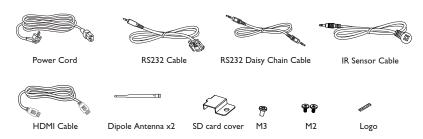
## 1.2. Package Contents

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
- Dipole Antenna x2
- SD card cover and M3 screw x1
- M2 screw x2
- Logo



\* The supplied power cord varies depending on destination.



\* Differences according to regions

Display design and accessories may differ from those illustrated above.

#### NOTES:

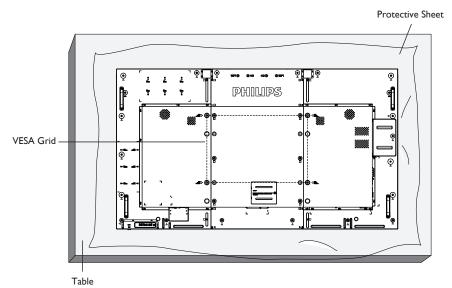
- For all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country (Type H05W-F, 2G or 3G, 0.75 or 1 mm<sup>2</sup> should be used).
- You might like to save the package box and packing 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 =55.0 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: 55.0 kg.

#### 1.4.1. VESA Grid

75BDL4150D	600(H) × 400(V) mm
------------	--------------------

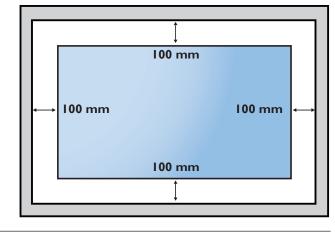
#### Caution:

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.
- It requires four manpower at least to mount this heavy display to a wall.

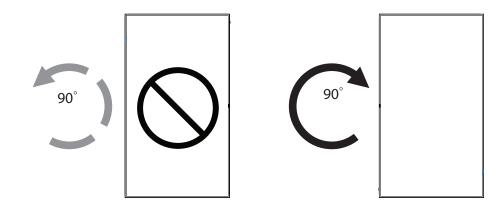
#### Ventilation Requirements for enclosure locating

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



## 1.5. Mounting in Portrait Position

- This display can be installed in portrait position.
- 1. Remove the table stand, if attached.
- 2. Rotate 90 degrees clockwise . The "PHILIPS" logo should be on the left side when facing the display.



#### 1.5.1. How to remove the logo

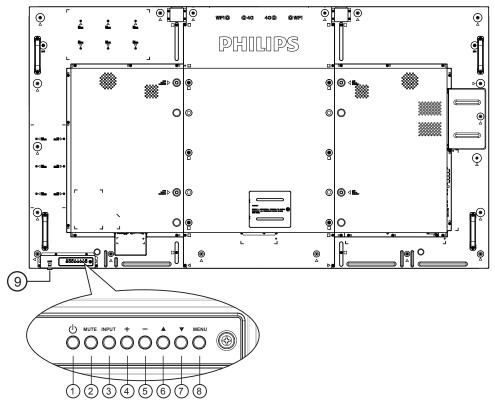
- 1. Prepare a piece of paper with a cutting area of logo as a protector to prevent the front bezel from scratching.
- 2. Using a knife, carefully remove the logo sticker with the paper placing beneath.
- 3. Tear off the logo sticker.



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

# 2. Parts and Functions

## 2.1. Control Panel



#### (1) [()] 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

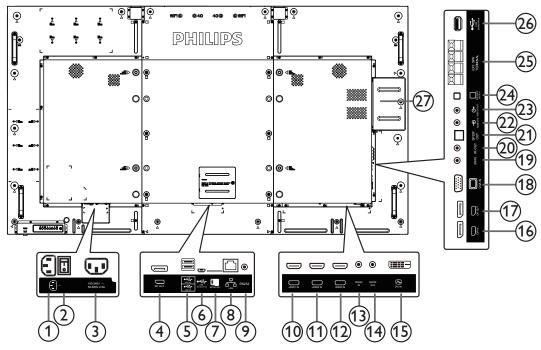
Return to previous menu while OSD menu is on, or to activate the OSD menu when OSD menu is off.

#### (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.

#### 3 AC OUT

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

#### (4) **DisplayPort OUT**

Android DisplayPort out.

#### **5 USB PORT**

Connect your USB storage device.

#### **(6) USB SERVICE PORT**

Connect to USB storage for Android ADB Firmware update. NOTE: It's for updating firmware only.

#### 7 MICRO SD CARD

Connect your MICRO SD CARD.

#### ⑧ **RJ-45**

LAN control function for the use of remote control signal from control center: for installing the optional OPS module

#### **9 RS232C**

Android RS232 network input reserved for customized protocol usage from System Integrator.

## 10 HDMI1 IN / 11 HDMI2 IN / 12 HDMI3 IN

HDMI video/audio input.

## 13 RS232C IN / 14 RS232C OUT

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

#### **15 DVI IN**

DVI-D video input.

## 16 DisplayPort IN / 17 DisplayPort OUT

DisplayPort video input / output.

#### NOTES:

- DisplayPort OUT only support 2K monitor.
- (18) VGA IN (D-Sub)
- VGA video input.

#### (19) IR IN / 20) IR OUT

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 19 for **IR Pass Through** connection.

#### 2 SPDIF OUT

Digital audio output

#### **22 AUDIO IN**

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

#### **23 AUDIO OUT**

Audio output to external AV device.

#### **24) SPEAKER SWITCH**

Internal speaker on/off switch.

#### **25 SPEAKERS OUT**

Audio output to external speakers.

#### 26 USB SERVICE PORT

Connect to USB storage for main board Firmware update. NOTE: It's for updating firmware only.

#### 27 OPS SLOT

Slot for installing the optional OPS module.

## 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.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion; leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

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

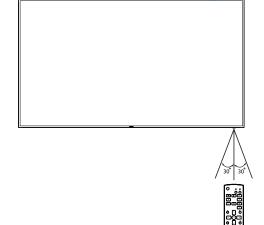
- Do not subject to strong shock.
- Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
- Avoid exposure to heat and steam.
- Other than to install the batteries, do not open the remote control.

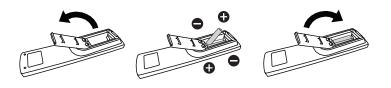
## 2.2.3. Operating range of the remote control

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.

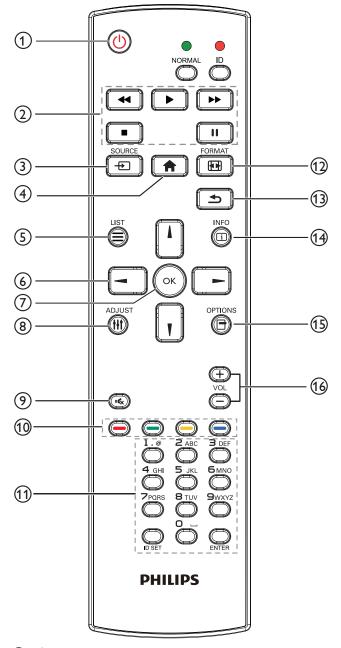
NOTE: The remote control may not function properly when the remote control sensor on the display is under direct sunlight or strong illumination, or when there is an obstacle in the path of signal transmission.





## 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 [E] 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.

## (4) [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.

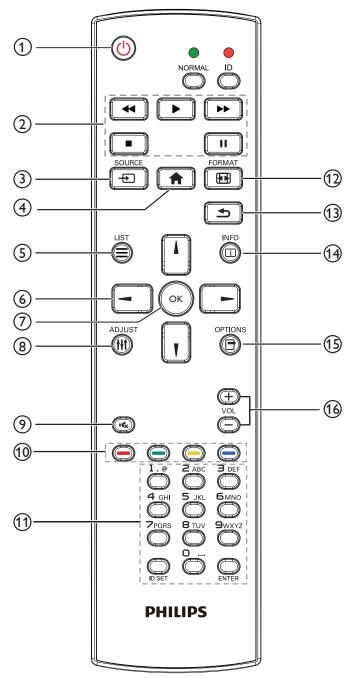
The numbers available are from  $[01] \sim [255]$ .

- 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 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 💽 to stop playing.

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

4. When playing PDF, video or music, press **b**utton 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.

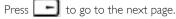
3. For PDF files,

» 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 🖃 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.

 $\ensuremath{\text{2.Move}}$  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. For PDF files,

press 🔘 button to perform zoom-in;

press 🜔 button to perform zoom-out.

After zoom-in or zoom-out, press 💽 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 😡 button to jump to the specific page.

## 12 [H] 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

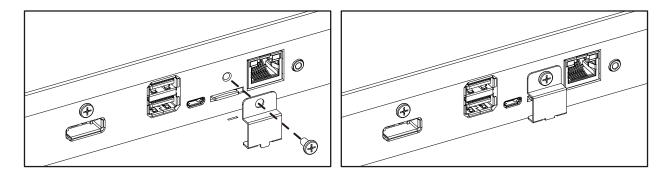
to open toolbox. Toolbox will be slide from the left side of the screen.

## 16 [—] [+] VOLUME button

Adjust volume. The buttons are only controlled by Scalar.

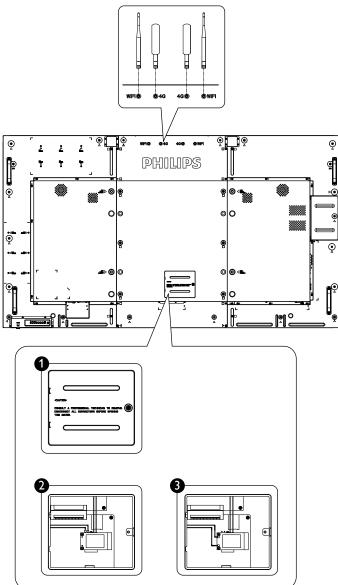
## 2.4. SD card Cover

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



## 2.5. 4G Module

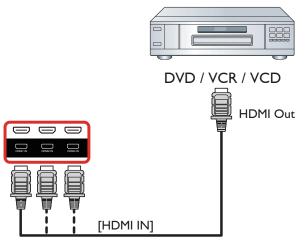
- 1. Remove Service cover.
- 2. Install 4G module
- 3. Install Antenna cable



# 3. Connecting External Equipment

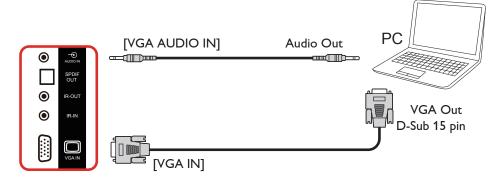
## 3.1. Connecting External Equipment (DVD/VCR/VCD)

## 3.1.1. Using HDMI video input

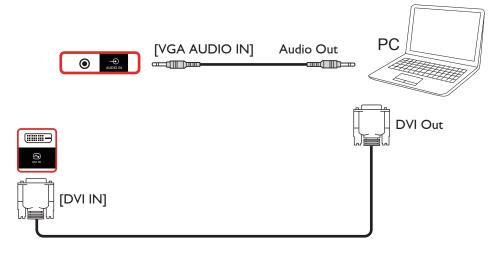


## 3.2. Connecting a PC

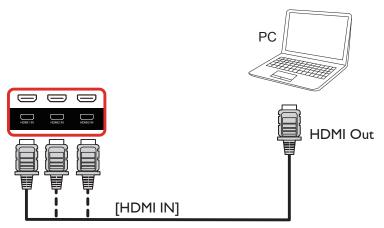
# 3.2.1. Using VGA input



## 3.2.2. Using DVI input



## 3.2.3. Using HDMI input

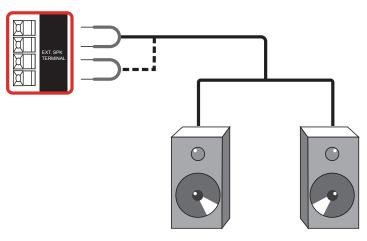


## 3.2.4. Using DisplayPort input



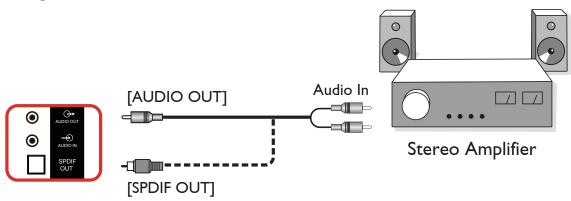
# 3.3. Connecting Audio Equipment

## 3.3.1. Connecting external speakers



External speakers

#### 3.3.2. Connecting an external audio device

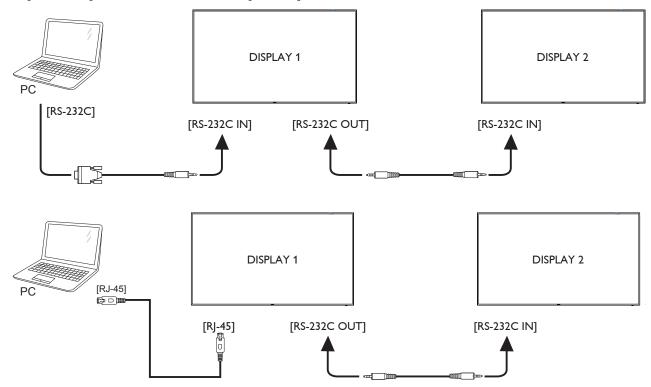


## 3.4. Connecting Multiple Displays in a Daisy-chain Configuration

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

#### 3.4.1. Display control connection

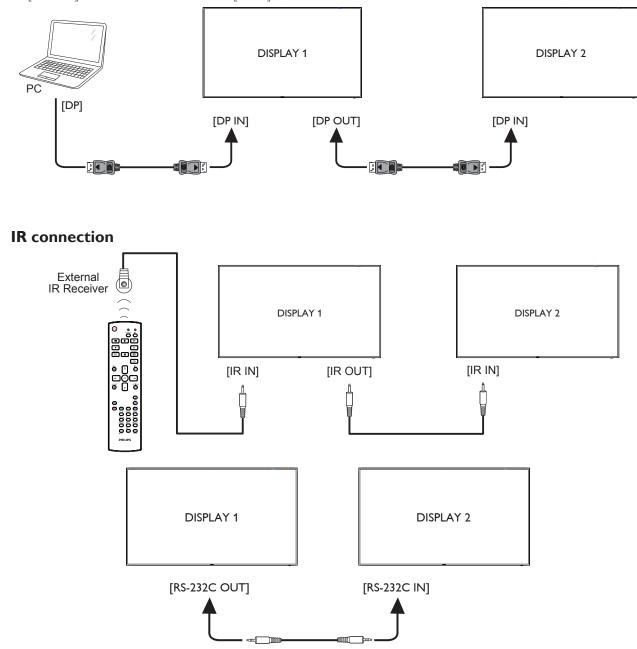
Connect the [RS232 OUT] connector of DISPLAY 1 to the [RS232 IN] connector of DISPLAY 2.



3.5.

## 3.4.2. Digital video connection

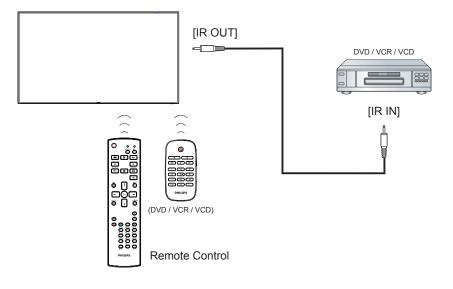
Connect the [DP OUT] connector of DISPLAY 1 to the [DP IN] connector of DISPLAY 2.



#### NOTE:

- 1. This display's remote control sensor will stop working if the [IR IN] 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 **[ID] 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}.

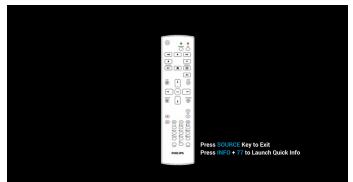
## 4.3. Overview

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.

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

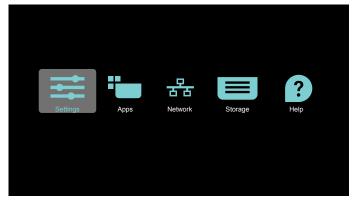
Settings : go to settings page.

Applications : show all apps.

Network : set Wi-Fi, Ethernet and Mobile network (optional).

Storage : go to storage page.

Help : display QRcode.



Settings page:

Settings : go to settings page. Signage Display : go to signage display settings page.

Settings			
	Wire	eless & networks	
	٠	WrFI	
	$\leftrightarrow$	Ethernet	
		More	
	Devi	loe	
	₽	Signage Display	
	•	Display	
		Apps	
	Pers	sonal	
	8	Security	
	Syste	tem	
	0	Date & time	
	0	Developer options	
	0	About	

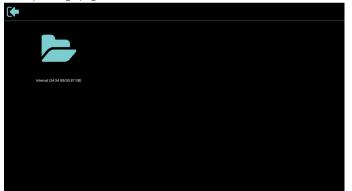
2.) Application page:



3) Network page



4) Storage page:



#### 5) Help page: Display QRcode page.



## 4.4. Media Player

## 4.4.1. OSD menu interaction with media player:

- 1. Boot on source:
  - Input:
    - If you select Media player source, pd will go to media player automatically after the boot complete.
  - Playlist:
    - 0 : go to home page of media player.
    - 1 7 : go to media player and playback File1 File7 of playlist automatically.
- 2. Schedule:
  - Today :
    - Show date and time.
  - **D**1 **D**7 :
    - You can set 7 schedule.
  - On/Off :
    - Set start time and end time.
  - Input :
    - Select Media player source, pd will go to media player automatically when times up.
  - MON, TUE, WED, THU, FRI, SAT, SUN, Every week :
    - Set lifecycle.
  - Play list :
    - 0 : go to home page of media player.
    - 1 7 : go to media player and playback File1 File7 of playlist automatically.
  - Clear all

## 4.4.2. 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.



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.



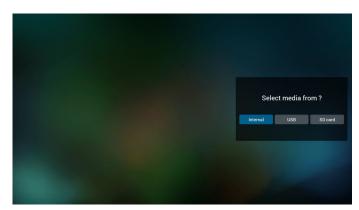
 Select "Compose" on home page, first you should choose one playlist to edit between FILE 1 and FILE 7. The pencil icon means the playlist is non-empty.

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

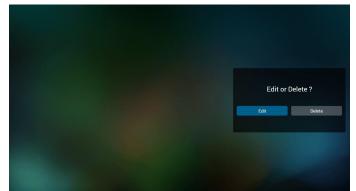
4. If an empty playlist is chosen, the app will guide you to select the media source.

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/



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 slidebar
  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.



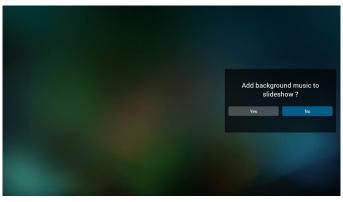
8. Press info key after you choose desired file, you will get the detail information.



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



10. 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.



#### 75BDL4150D

 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.



Media Hotkey

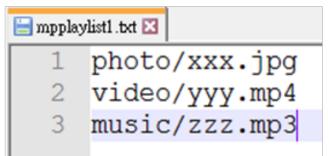
Play : Playback file. Pause: Pause file. Fast forward: forward 20 second. (Photo not support) Rewind: back 10 second. (Photo not support) Stop: Stop file and return to start. If the gif file, it like the pause.

#### 12. Media format please refer to Page 53 Supported Media Formats.

#### 13. 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

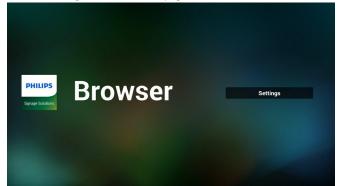
Step 3. Prepare media files to "photo", "video" and "music" folder under "philips" folder, internal storage only.

 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**

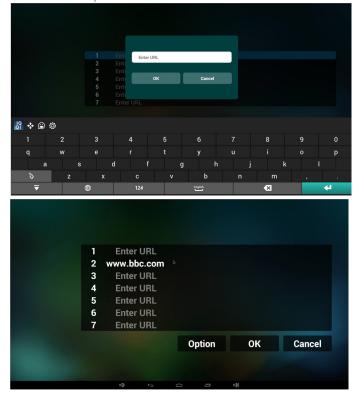
1. Home page of Browser app, this page has one item: "Settings". Press Settings then enter next page.



2. 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
	\$ €	<u> </u>	<b>☆</b>	

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



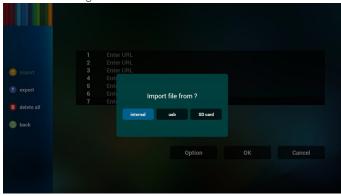
4. Press "Option" then left side will pop up a list Import : Import url list file Export : Export url list file Delete all : Delete all url record on right side Back : left side list will be closed.

<ul> <li>★ import</li> <li>★ export</li> <li>▲ delete all</li> <li>③ back</li> </ul>	1 2 3 4 5 6 7	Enter URL www.bbc.com Enter URL Enter URL Enter URL Enter URL Enter URL			
		<b>t</b>	Option	OK	Cancel

4.1 Import

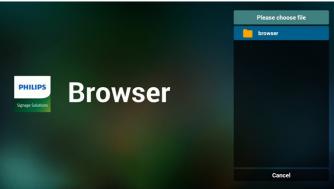






#### Choose file contains urls

•



## 75BDL4150D

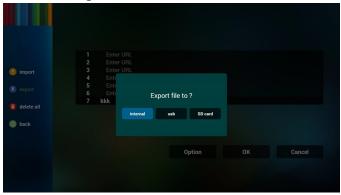
- Import file and url will show on list
   <u>http://www.abc.com</u>
   http://www.bbc.com
   http://www.bbc.com.tw
   http://www.bbc.com.tw
   http://www.subc.com
   http://www.subc.com
   http://www.subc.com
   http://www.subc.com
   http://www.subc.com
   bttp://www.subc.com
   btttp://www.subc.com
   bttp://www.subc.com
   <
  - File format for import Format should be like below with file extension "txt"



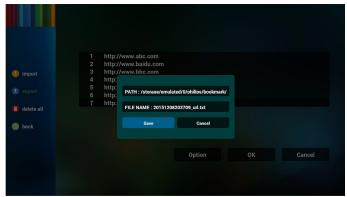
- 4.2 Export:
- Click export



Choose storage

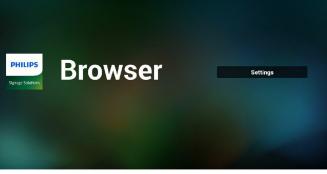


• Dialog shows path file will be saved and file's name. Press ''save'' button then urls on list will be saved.

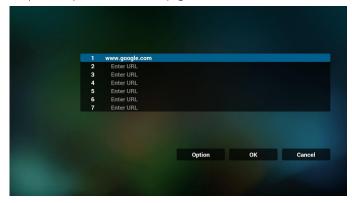


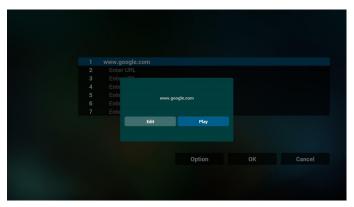
5. Press OK then url records will be saved

4 Enter URL 5 Enter URL 6 Enter URL 7 Enter URL Option OK Cancel
Option OK Cancel
4 5 0 8 4



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.





- 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.

- 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 Player

# 4.6.1. OSD menu interaction with pdf player:

- 1. Boot on source:
  - Input:
    - If you select PDF player source, PD will go to PDF player automatically after the boot complete.
  - Playlist:
    - 0 : go to home page of PDF player.
    - 1 7 : go to PDF player and playback File1 File7 of playlist automatically.
- 2. Schedule:
  - Today :
    - Show date and time.
  - **-** □1 □7 :
    - You can set 7 schedule.
  - On/Off :
    - Set start time and end time.
  - Input :
    - Select PDF player source, PD will go to PDF player automatically when times up.
  - MON, TUE, WED, THU, FRI, SAT, SUN, Every week :
    - Set lifecycle.
  - Play list :
    - 0 : go to home page of PDF player.
    - 1 7 : go to PDF player and playback File1 File7 of playlist automatically.
  - Clear all

# 4.6.2. PDF Player introduction:

 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.



## 75BDL4150D

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.

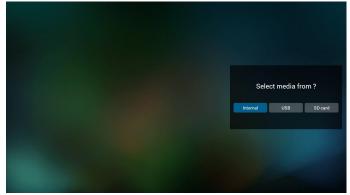
The pencil icon means the playlist is non-empty.



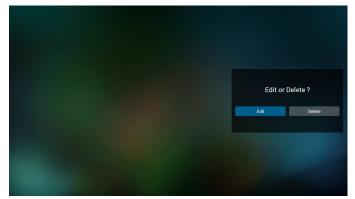
4. If an empty playlist is chosen, the app will guide you to select the media source.

All media files should be placed in /philips/ 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.



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

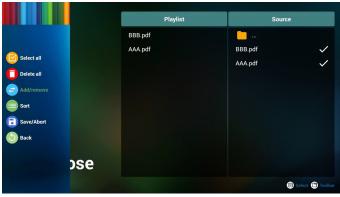
Play key – play media file.

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.



 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 :

😑 pdfpla	vylist1 .txt 🔀
1	pdf/xxx.pdf
2	pdf/yyy.pdf
3	pdf/zzz.pdf

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.

SD card USB storage

# 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. Account PIN Code Version 2.0 Content Internal stor

30

# 4.8. Custom App

User can set up the application for Customer Source. Note:

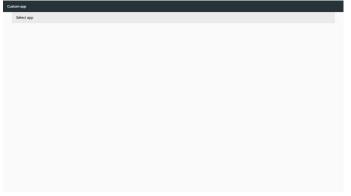
- (1) Only display User Installed app.
- (2) Will not show up system pre-install app.

# 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

Select app				
	Select app		_	
	Play Books		۲	
	Play Music		0	
	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.

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

Custom app			
Select app			
	Select app		
	FORGET	CANCEL SAVE	

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.

Select app				
	Select app			
	Select app		۲	
	•			
	Play Music		0	
	FORGET	CANCEL	SAVE	

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

Custom app			
Select app Play Music			

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

Custom app Select app Play Music				
	Select app		٩	
	May Baoks		0	
	Pay Music	CANCEL	•	

#### 5. **Setting**

- Main items:
  - (1) Wi-Fi
  - (2) Ethernet
  - (3) More (Only show up when 4G module connected)
  - (4) Signage Display
  - (5) Display
  - (6) Apps
  - (7) Security
  - (8) Date & time
  - (9) Developer options

#### (10) About

Settings		
	Wireless & networks	
	♥ Wi-Fi	
	↔ Ethernet	
	··· More	
	Device	
	Signage Display	
	Display	
	Apps	
	Personal	
	B Security	
	System	
	⊘ Date & time	
	() Developer options	
	O About	

#### Wi-Fi 5.1.

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

Note :

- 1. Ethernet will be disable automatically if Wi-Fi turn on and connect to network.
- 2. A particular model of Wi-Fi module is required. Please consult the dealer or service technician for help.

#### 5.2. 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

Cannot modify IP Address, Netmask, DNS Address and Gateway.

If connect successfully, it will display current network configuration.

B. 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: number 0-9, decimal point "."

(2) Mac Address

Note :

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

#### 5.3. More (Only show up when 4G module connected)

Via Enable/Disable to control Cellular networks On/OFF.

Note :

- 1. Only show up when 4G module connected.
- 2. Only show up "Tethering & portable hotspot" when detect Wi-Fi module.
- 3. Network info will be different due to different carrier.

#### 5.4. Signage Display

- (1) General Settings
  - A. Signage display name
  - B. Boot Logo
  - C. Screenshot
- (2) Server Settings A. Email notification
  - B. FTP

  - C. Remote control
- (3) Source Settings
  - A. Media player
  - B. Browser C. CMND & Play
  - D. PDF player
  - E. Custom app
- (4) Network application
- A. Proxy
  - B. SICP network port
- (5) System tools
  - A. Clear Storage
  - B. Reset
  - C. Import & Export
  - D. Clone
  - E. Security
- (6) Misc.
  - A. Tiling Tool
  - B. TeamViewer Support
- (7) System updates A. Local update
- (8) Scaler FW updates A. Start update

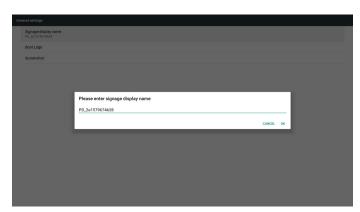
# 5.4.1. General Settings

1. Signage Display Name

Set up PD name "PD " + Ethernet Mac Address. Note:

Input limitation:

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



#### 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.

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

Choose Boot Animation			
	Choose Boot Animation		
	/data/local/bootanimation/bootanimation.zip		۲
	/storage/6103-13FA/bootanimation.zip		
	Storage/C4B1-6BCF/bootanimation.zip		
	FORGET	CANCEL	SAVE

#### Function introduction:

a. Option description



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

Use boot animations file under SD card



Use boot animations file under USB

#### b. Save

If the option focus on **equility** or **equility**, press Save key to save the bootanimzation.zip from the SD card or USB 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 select 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 grayed out.



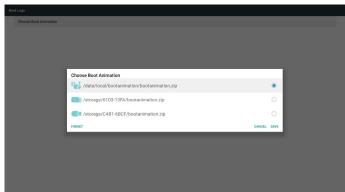
#### Case 2

The user puts customized bootanimzation.zip file in the SD and USB. The default priority is SD card , so the PD will automatically select the file in the SD card only. The file in the USB drive will be ignored. In case the bootanimzation.zip is only in the USB drive, then the PD will select the file in the USB drive (as the SD card has no file).

Choose Boot Animation				
	Choose Boot Animation			
	/storage/6103-13FA/bootanimation.zip		۲	
	storage/C4B1-6BCF/bootanimation.zip		0	
	FORGET	CANCEL	SAVE	

#### Case 3

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



#### 75BDL4150D

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

Book Logo
Clause Book Admission

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 screenshot at first 40 sec.

n	nshot					
	Main Switch					
	Enable Disable					
	Screenuhot					
	Interval 30 minutos					
	Start time					
	End time					
	Repeat					
	Save to Internal storage					
	Purge Screenshots Every Day					
	Send screenshots via email For email settings, please go to Signage Display – Server settings + Email notification.					

1) Interval

Set up interval timeframe. 30 mins or 60 mins.

2) Start Time

Set up screenshot start time.

Note:

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

3) End Time

Set up screenshot End time

#### 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)

5)Save to

Set up screenshot save path, default path: internal storage.

Note:

In root of internal storage, PD will create folder philips/Screenshot/ automatically.The picture will save to philips/Screenshot/.

6) Purge Screenshots

Set up purge timeframe. One day or One week.

7) Send screenshots via email

After check this item, it will send screenshot to email of administrator

Note:

Please confirm Email setting is done. Each screenshot will be sent immediately.

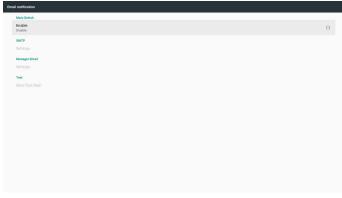
# 5.4.2. Server Settings

- 1. Email Notification
- Via Enable/Disable to control Email On/Off)

After Enable, user can set up Email notification configuration.

Note: The following events are automatically sent mail to manager.)

- (1) Critical : Some android system warning message
- (2) Mediaplayer: Playlist is empty, or media file not support...
- (3) Browser: Playlist is empty..
- (4) CMND & Play: No content
- (5) Pdfplayer: Playlist is empty
- (6) Ftp: someone login to PD



#### 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

Main Switch					
Enable Enable					
SMTP	SMTP				
Settings	67625220				
	Server Gmail				
Manager Email	Other				
Settings	Email				
	Email				
Test		(for example, example@gmail.com)			
Send Test Mail	Password				
				- 1	
	SMTP Server				
	Security type				
	None -				
	2×62/				
	Port				
			DISCARD	SAVE	
				_	
Main Switch					
Enable Enable					
SMTP	SMTP				
Settings	67625220				
	Server O Gmail				
Manager Email	Other				
Settings	Email				
	Email				
Test		(for example, example@gmail.com)			
Send Test Mail	Password				
				- 1	
	SMTP Server				
		-			
	Security type				
	None -				
	SSL				
	TLS	-			
	STARTTLS		DISCARD	SAVE	
			_		

Gmail safety setting If Gmail is not work

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 ?
vulne	e apps and devices use less secure sign-in technology, which makes your account more rable. You can <b>turn off</b> access for these apps, which we recommend, or <b>turn on</b> access if you to use them despite the risks. Learn more
	Access for less secure apps Turn off Turn on
Y	ahoo Email Security Setting
	Yahoo Email is not working when setting complete, please confirm Allow apps that use less secure sign in'' item is enabled.
~	-

YAHOU;	
Personal into	Account security
	Change password
	Phone numbers
	Add recovery email address
	Two-step verification Additional sociality. Learn more
	After copy that is determined in the second

#### 2)Manager Email Set up Receiver mail account

Main Switch Enable Enable SMTP Settings Manager Email		8
Settings Test Send Test Mall	Manager Email Manager Email (for neample, example()gmal.com) DBICAMO SAVE	

#### 3)Test Send T

Send Test Mail To test Gmail account receive/send function. Note 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.

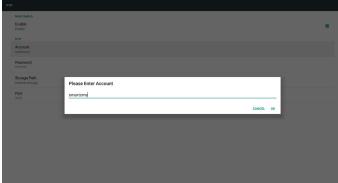
FTF		
	Main Switch	
	Enable Enable	
	FTP	
	Account smartoms	
	Password	
	Storage Path Internal storage	
	Port 2121	



Set up FTP account Note: Input limitation (1) Length: 4-20 characters (2) Format:

I. English a-z and A-Z





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 "\*" symbol. Before password input:

FTP			
	Main Switch		
	Enable Enable		8
	FTP		
	Account smartoms		
	Password		
	Storage Path Internal atorage	Please Enter Password	
	Port 2121		
		CANCEL OK	

#### 3)Storage Path

Show default path: Internal storage

Note:

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

4) Port

Set up FTP port number.

Note:

Input limitation

- (1) Length: Max 5 characters
- (2) Range: 1025 ~ 65535
- (3) Format: Number 0-9
- (4) Default: 2121

(5) Unavailable port: 9988, 15220, 28123, 28124 and SICP network port.

Main Switch				
Enable Enable				8
FTP				
Account smartcms				
Password				
Storage Path Internal storage	Please Enter Port		٦	
Port 2121	2121		- 1	
		CANCEL	ок	

#### 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  $\mathsf{PIN}$  code.

#### Bind status:

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

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

 $\left(3\right)$  Will show Server is unbinded if Remote control server feedback unbinded status.

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

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

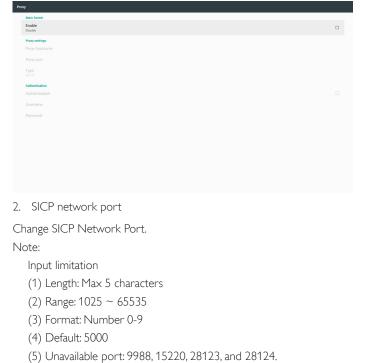
# 5.4.3. Source Settings

- 1. Media Player (Please refer to the instructions of 4.4. Media Player)
- 2. Browser (Please refer to the instructions of 4.5. Browser manual)
- 3. CMND & Play (Please refer to the instructions of 4.7. CMND & Play)
- 4. PDF Player (Please refer to the instructions of 4.6. PDF Player)
- 5. Custom App (Please refer to the instructions of 4.8. Custom App)

# 5.4.4. Network application

#### 1. Proxy

Enter the Host and Port of the proxy server.



# 5.4.5. System Tools

System tools 5 main functions:

(1) Clear Storage

Enable Enable SICP network port SICP network port

- (2) Factory Reset
- (3) Import & Export
- (4) Clone Media Files
- (5) External Storage

Sys	tem tools	
	Clear storage	
	Al	
	Internal storage	
	USB storage	
	SD card	
	Reset Factory Reset	
	Import & Export	
	Export Signage Display Settings	
	Import Signage Display Settings	
	Clone Clone Media Files	
	Security	
	External Storage SD card/USB External Storage Unlock	

#### 5.4.5.1 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.

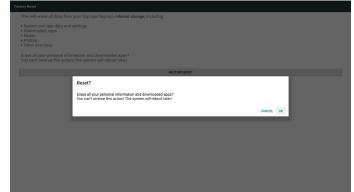
Clear storage		
All		
Internal storage		
USB storage		
SD card		
Clear st Reset		
r dottory ricour	ill erase all data , including:	
Import & Export	/storage/emulated/0/philips/	
Export Signage Display Setting		
Import Signage Display Settin	/storage/6103-13FA/philips/	
Clone	/storage/C481-68CF/philps/	
Clone Media Files	RESET	
Security		
External Storage SD card/USB External Storage Unlock		

#### 5.4.5.2 Factory Reset

Factory Reset can recover to Factory default settings.

ion y neset	
This will erase all data from your Signage Display's internal storage, including:	
<ul> <li>System and app data and settings</li> <li>Downloaded apps</li> <li>Hoata</li> <li>Hoata</li> <li>Other user data</li> </ul>	
Erase all your personal information and downloaded apps? You can't reverse this action! The system will reboot later!	
	FACTORY DECET

Press OK to execute Reset function automatically.



#### 5.4.5.3 Import & Export

The function of Import & Export database and 3rd party apk. Notes.

(1) Saved file name:

- A. Settings\_global.xml
- B. Settings\_secure.xml
- C. Settings\_system.xml
- D. Signage\_settings.db
- E. AndroidPDMediaPlayerData.db
- F. AndroidPDPdfData.db
- G. AndroidPDUrlListData.db
- H. Smartcms.db
- (2) Will save to philips/sys\_backup folder in storage

## **Export Signage Display Settings**

Will export database to Philips folder under USB or SD card.

- (1) Export database
- (2) Export 3<sup>rd</sup> 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)

Example Section 2015 -	nal atorage	
USB storage So card Societ Storage / storage/emulated////philips/ Toport Biosage Biosing Mitters Import Biosage Biosage Mitters Import Bi	storage	
X0 card       Text ory flasted       Factory flasted       Tigger flagsage flastpage flastpage/cAB1-68CF/phillipa/       Unger flagsage flastpage/cAB1-68CF/phillipa/       Tigger flagsage flastpage/cAB1-68CF/phillipa/       Cone Modia Flast       Cone Modia Flast       External Stroke		
Next         Select storage           Factory Rest         ************************************	ad .	
Factory Rest     Select storage       myck Rapm     Implementated/0/philips/       Equark Display Display Rest     Implementated/0/philips/       myck Rapman Display Rest     Implementated/0/philips/       Coner     Implementated/0/philips/       Coner     Coner       Coner     Coner       Rest     Coner		
Factory Rest     ************************************	Select storage	
Import Report Depart De	www.Beset	
	A Deport	
Cone Moda Filee CANCEL OK Secret External Sciones	t Signage Display Settin / Storage/C4B1-6BCF/philips/	D
Cone Mada Files CANCIL 05	rt Signage Display Settin //storage/6103-13FA/philips/	o l
Com wear res		
External Storage	Media Files CANCEL C	ok .
	ty .	

### Import Signage Display Settings

Import data from Philips folder under USB or SD card.

- (1) Import database
- (2) Auto install 3<sup>rd</sup> party apk from Philips/app/

List all available storage (Internal/SD/USB)

Clear storage All			
Internal storage			
USB storage			
SD card			
Reset	Select storage		
Factory Reset	/storage/emulated/0/philips/	۲	
Export Signage Display Settin	Istorage/C4B1-6BCF/philips/	0	
Import Signage Display Settin	/storage/6103-13FA/philips/	0	
Clone Clone Media Files	CANCEL	ок	
Security			
External Storage SD card/USB External Storage Unloc	x		

Show notification dialog before database import

Clear storage		
All		
Internal storage		
USB storage		
SD card		
Repet		
Factory Reset	Import Signage Display Settings	
Import & Export	Are you sure you want to import the settings and apps? After importing successfully, the system will load the settings, install all apps and reboot automatically.	
Export Signage Display Setting	After importing successfully, the system will load the settings, install all apps and reboot automatically.	
Import Signage Display Settin		
Clone	CANCEL OK	
Clone Media Files		
Security		
External Storage SD card/USB External Storage Union		

## 5.4.5.4 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

Clone Media Files				
Clone Source Internal storage	0			
SD card	0			
US8 storage	۲			
Path: /storage/C481-68CF/philips/				
Target Location				
Internal storage	۲			
SD card	0			
USB storage	0			
Path: /storage/emulated/0/philips/				
CLONE				

#### 5.4.5.5 External Storage

Enable: SD card/USB External Storage Lock.

Disable: SD card/USB External Storage Unlock.

Note:

Must re-plug SD card/USB External Storage after unlock the external storage.

System tools	
Clear storage All	
Internal storage	
USB storage	
SD card	
Reset Factory Reset	
Import & Esport Export Signage Display Settings	
Import Signage Display Settings	
Clone	
Clone Media Files	
Security	
External Storage SD card/USB Dxternal Storage Unlock	

# 5.4.6. Misc.

# 5.4.6.1 Tiling tool

To activate the tiling tool function by enter the serial number that buy from the dealer:

Tiling tool Deactiveted				
TeamViewer Support Enable				8
	Please enter activation code			
	Model serial number :			
	Feature code : 0001			
	Activation code :			
		CANCEL	ок	

## 5.4.6.2 TeamViewer Support

Enable / Disable TeamViewer support.

Misc.			
Tiling tool Deactivated			
TeamViewer Support Enable			•

# 5.4.7. System update

1. Local update

Will automatically search update.zip in Internal, USB or SD card. If found will be shown up in list for user selection.

- Note a. Only support Android Full image.
  - b. File name should be update.zip
  - c. The file should be located in root of storage.

Syst	System updates			
	Local update			
		Select storage		
		storage/C4B1-6BCF/update.zip		۲
		/storage/6103-13FA/update.zip		0
		stolage/o105-13PA/upuate.zip		
			CANCEL	OK

### 75BDL4150D

 $\left(2\right)$  After selecting update.zip file, system will restart and start updating.

(3) If update.zip is not found.The dialog is "no content". (OK button will be grayed.)

Local update			
	Select storage		
		CANCEL OK	
		_	

# 5.4.8. Scalar FW update

1. Start update

Will automatically search scaler.bin in Internal.

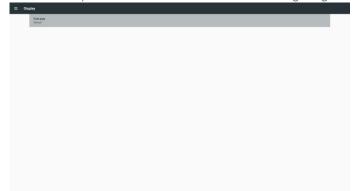
Note

- (1) File name should be scaler.bin
- (2) The file should be located in {Internal}/philips/scaler/

Note: Once the update that android reboot showing black screen,
please manually AC reboot device to finish update process.

# 5.5. Display

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



# 5.6. Apps

Display applications information.

#### Note

=

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

App			۰ :
		Bewser 14.00/38	
	0	Cremian 14.00/31	
		Defablione 24.00 /8	
		File Manager 16.00/05	
		Media Player 16.00 78	
	ABC	PDF Player 16.00 78	
	Ф	Settings 21648	
	Ð	Signage Display 24.00 rs	
	0	Smirt046	

# 5.7. Security

(1) Credential storage

Control panel of certificates

Security		
Credential storage		
Storage type Hardware-backed		
Trusted credentials Display trusted CA certificates		
User credentials View and modify stored credentials		
	Credential storage Storage type Hardware backed Trusted credentials Display trusted CA certificates User credentials	Condential stronge Stocoge type Instructioners issued Tursted consectuals Damping Tursted Consectuals Damping Tursted Consectuals

# 5.10. About

Main info in About:

- (1) Legal Information: show the open source licenses.
- (2) Android version
- (3) Kernel version
- (4) Build number

ī						
	Legal information					
	Android version 7.1.2					
	Kernel version 4.4.70 BonC.41500					
	Build number F802.07					

# 5.8. Date & time

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

Add new NTP server to display current server IP.

=	Date	& time	
		Select time zone GMTHET 00 bitish Summe Time	
		NIP Server 2 androld position org	

# 5.9. Developer options

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

Developer options	
Take bug report	
Deaktop backup password Deaktop full backup avent currently protected	
Stay avake Screen willnow skep	
Running services View and control currently running services	
Petuwe color mode Uni sHDB	
WebVew implementation Android WebVew	
Multiprocess Web/Hear Ruo Web/H	
Automatic system spdates	
Demo mode	
Debugging	
open android bug collector Each whole big is served to the Adata/systeg directory, you can use AZB pull export it	
USB debugging Debug mode when USB is connected	
Revoke USB debugging authorizations	
Bug report shortcut Drow a button in the power means for taking a bug report	(2

# 5.11. Supplementary

# 5.11.1.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.

Network	2037/01/12.04 GMT+00
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
Monitor Information	
Android FW version	F803.01a
Scalar FW version	V0.009
SICP version	V1.92
Monitor ID	
Monitor group	
Model name	XXXXXX
Serial NO.	
Operation hours	
Heat status	Sensor 1 28.6°C 83.5°F
	Sensor 2 35.0°C 95.0°F

# 5.11.2. 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

	Project\Q	_line_2	017\Spe	c∖boota	nimatior	n.zip\	
File	Edit Vie	ew Fav	vorites	Tools	Help		
- <b>-</b>		$\checkmark$	•	-	×	ñ	
Add	Extract	Test	Сору	Move	Delete	Info	
1	D:\Pro	ject\Q_	line_201	7\Spec\	bootanii	mation.zip	Ň
part							
des	c.txt						

#### (1) The image folder

Ш

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.

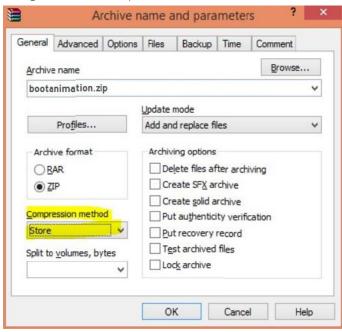
3. Zip file:

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"

	🕞 Upen Share w							
Favorites	Name	^		Date modified	Туре	Size		
Desktop	o 🦺 part0			1/6/2012 8:11 AM	File folder			
💧 Downlo	ads 📄 desc			1/6/2012 11:53 AM	Text Document	1		
Recent F	Places							
	dd to Archive	_				×		
Librario	Archive:							
Musi	bootanimation zip				•			
Pictu	Archive format:	zip	+	Update mode:		_		
Vide				Add and replace files		-		
Comp	Compression level:	Store	•	Optiona				
OS (C	Compression method:	[	•	Create SFX archive				
		, ,		Compress shared files				
	Dictionary size:		-	Compress shared nee	8			
Netwo	Word size:		-	Encryption		- 1		
	Solid Block size:			Enter password:				
		-						
	Number of CPU threads:	4 -	/4	Reenter password:				
	Memory usage for Compress	ina:	1 MB					
	Memory usage for Decompo	- 7	1 MB	Show Password				
		oosii iy.	TMD	tand a second a second second				
	Split to volumes, bytes:			Encryption method:	ZpCrypto	-		
			-					
	Parameters:							

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



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.

# 5.11.3. 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.
Sw Update	php.intent. action. UPDATE_APK	Кеер	Indicate that you want to keep the file or not after updating.The default value is false.
		packageName	The target package you want to launch automatically after updating.
		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");

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

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.

#### NOTES:

- When there is no OSD menu on the screen, press [1] to display the menu of {Smart picture}.
- When there is no OSD menu on the screen, press [1] to display the menu of {Audio source}.

# 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			
Picture	Contrast	٠	
Screen	Sharpness	•	
Screen	Black level	•	
Audio	Tint	•	
	Color	•	
PIP			
	Gamma selection	•	2.2
Configuration 1	Color temperature	•	Native
•			

#### Brightness

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

#### Contrast

Adjust to sharpen the picture quality. The black portions of the picture become richer in darkness and the white become brighter.

#### Sharpness

Adjust to improve the image detail.

#### Black level

Video black level is defined as the level of brightness at the darkest (black) part of a visual image. Adjust to change the image brightness.

#### Tint

Adjust to change the color tint of the image.

Use the [-] or [-] button to adjust. Press the [-] button and the flesh tone color turns slightly green. Press the [-] button and the flesh tone color turns slightly purple.

NOTE: This item functional for Video mode(YUV color space) only.

#### Color

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

NOTE: This item functional for Video mode(YUV color space) only.

#### Noise reduction

Adjust to remove the noise in the image. You can select a suitable noise reduction level.

Choose from: {Off} / {Low} / {Medium} / {High}.

NOTE: This item functional for Video mode(YUV color space) only.

#### Gamma selection

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

The options are: {Native} / {2.2} / {2.4} / {S gamma} / {D-image}.

#### **Color temperature**

Select a color temperature for the image. A lower color temperature will have a reddish tint, whilst a higher color temperature gives off a more bluish tint.

 $\label{eq:choose from: $ 3000K } / $ 4000K } / $ 5000K } / $ 6500K } / $ 7500K } / $ 750$ 

#### Color control

You can adjust the color tones of the image precisely by changing the **User-R** (Red), **User-G** (Green) and **User-B** (Blue) settings independently when the following condition:

#### $\{Picture\}$ - $\{Color\ temperature\}$ - $\{User\}$ setting to $[User\ 1]$

Or, you can adjust the color tones per 100K in the range of 2000K to 10000K when the following condition:

{Picture} - {Color temperature} - {User} setting to [User 2]

#### Smart picture

The following smart picture modes are available for:

- PC mode: {Standard} / {Highbright} / {sRGB}.
- Video mode: {Standard} / {Highbright} / {Cinema}.

#### Smart contrast

Smart contrast function is to enhance image contrast on darker scenes when activated. The **{Brightness}** setting in the **Picture** menu will be disabled when Smart Contrast is activated.

#### Smart power

Set the display to reduce the power consumption automatically. The options are: {Off} / {Medium} / {High}.

Light sensor

Light sensor function is to adjust brightness automatically when ambient light changed

#### Scan mode

Change the display area of the image.

- {**Over scan**} Display about 95% of the original size of the image. The rest of the areas surrounding the image will be cut off.
- {Under scan} Display the image in its original size.

#### **Picture reset**

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

#### 6.2.2. Screen menu

Picture	H position	• <b>      </b>      50
Picture	V position	• <b>         </b> 50
Screen	Clock	• <b>         </b> 50
Screen	Clock phase	• <b>         </b> 50
Audio	Zoom mode	• Full
	Custom zoom	• Zoom
PIP	Screen reset	• Cancel
		•
Configuration 1		
▼		

#### H position

Press the [-] button to move the image to the right, or [-] to move the image to the left.

#### NOTES:

- H position adjustment is functional for VGA input only.
- H position cannot be adjusted when {Pixel Shift} is activated.

#### V position

Press the [-] button to move the image up, or [-] to move the image down.

NOTES:

- V position adjustment is functional for VGA input only.
- V position cannot be adjusted when {Pixel Shift} is activated.

#### Clock

Adjust the width of the image.

NOTE: This item is functional for VGA input only.

#### Clock phase

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

NOTE: This item is functional for VGA input only.

#### Zoom mode

The pictures you receive may be transmitted in 16:9 format (wide screen) or 4:3 format (conventional screen). The 16:9 pictures sometimes have a black band at the top and bottom of the screen (letterbox format). Zoom Mode will be deactivated when {**Pixel Shift**} is activated or turned on, and when {**Tiling**} is enabled.

Choose from: {Full} / {Normal} / {Real} / {21:9} / {Custom}.

<b>Full</b> This mode restores the correct proportions of pictures transmitted in 16:9 using the full screen display.
<b>Normal</b> The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture.
<b>Real</b> This mode displays the image pixel-by-pixel on screen without scaling the original image size.
<b>21:9</b> The picture is enlarged to 21:9 format. This mode is recommended when displaying pictures that have black bands at the top and bottom (letterbox format).
<b>Custom</b> 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}.

<b>Zoom</b> Expands the horizontal and vertical sizes of the image simultaneously.
<b>H zoom</b> Expands the horizontal size of the image only.
<b>V zoom</b> Expands the vertical size of the image only.

	<b>H position</b> Moves the horizontal position of the image left or right.
1 ↓	<b>V position</b> Moves the vertical position of the image up or down.

#### Screen reset

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

# 6.2.3. Audio menu

Picture	Balance	•	
Picture	Treble	•	
Screen	Bass	•	
Screen			30
Audio	Audio out (Line out)		91
Audio	Maximum volume		
PIP	Minimum volume		
	Mute		Off
Configuration 1	Audio reset		Cancel
▼			

#### 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 reset

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

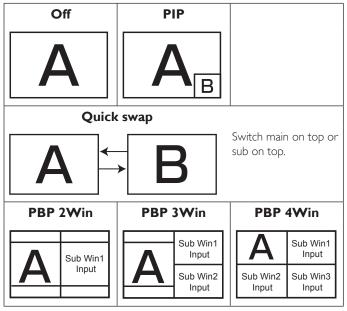
# 6.2.4. PIP menu

Picture	Sub mode		Off
Picture	PIP size	•	Small
Screen	PIP position	•	Bottom-Left
Screen	PIP change	٠	Cancel
Audio	PIP reset	•	Cancel
		•	
PIP		٠	
		٠	
Configuration 1		٠	
		٠	
•			

#### Sub mode

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

 $\label{eq:choose from: {Off} / {PIP} / {Quick swap} / {PBP 2Win} / {PBP 3Win} / {PBP 3Win-1} / {PBP 3Win-2} / {PBP 4Win} / {PBP 4Win-1} / SICP.$ 



#### **PIP** size

Select the size of the sub picture in the PIP (Picture-in-Picture) mode. Choose from: **{Small**} / **{Medium**} / **{Large**}.

#### **PIP** position

Select the position of the sub picture in the  $\ensuremath{\mathsf{PIP}}$  (Picture-in-Picture) mode.

 $\label{eq:choose from: Bottom-Right} / \{Bottom -Left\} / \{Top-Right\} / \{Top-Left\}.$ 

#### **PIP** change

Exchange input signal of Main and Sub for PIP / Quick swap mode.

#### **PIP** reset

Reset all settings in the **PIP** menu to factory preset values. NOTES:

• The PIP function is available only for the following condition: {Advanced option} - {Tiling} - {Enable} setting to [No]. • The PIP function is available only for certain signal source combinations as shown in the table below.

Main Sub	DP	OPS	HDMI1	VGA	HDMI2	HDM13	Media Player	Browser	SmartCMS	PDF Player	Custom	DVI
DP	0	0	0	0	0	0	0	0	0	0	0	0
OPS	0	0	Х	0	0	0	0	0	0	0	0	0
HDMI1	0	Х	0	0	0	0	0	0	0	0	0	0
VGA	0	0	0	0	0	0	0	0	0	0	0	0
HDMI2	0	0	0	0	0	Х	0	0	0	0	0	0
HDMI3	0	0	0	0	Х	0	0	0	0	0	0	0
Media Player	0	0	0	0	0	0	0	Х	Х	Х	Х	0
Browser	0	0	0	0	0	0	X	0	Х	Х	Х	0
SmartCMS	0	0	0	0	0	0	X	Х	0	Х	Х	0
PDF Player	0	0	0	0	0	0	X	Х	Х	0	Х	0
Custom	0	0	0	0	0	0	X	Х	Х	Х	0	0
DVI	0	0	0	0	0	0	0	0	0	0	0	0

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

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

# 6.2.5. Configuration1 menu

Picture	Switch on state	•	Last status
Picture	Auto adjust	•	Action
Screen	Power save	٠	Action
Screen	Panel saving	٠	Action
	Network control port	٠	RS232
	Boot on source	٠	Action
PIP	Configuration1 reset	٠	Action
	Factory reset	٠	Action
Configuration 1		٠	
		٠	
<b>•</b>			

#### 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.

#### Auto adjust

Use this function to automatically optimize the display of VGA input image.

NOTE: This item is functional for VGA input only.

#### Power save

Use this setting to reduce the power automatically.

- {RGB} Select {On} to let the display enter power saving mode when no signal is detected from the PC mode (RGB color space) inputs after 10 seconds.
- {Video} Select {On} to enter power saving mode when no signal is detected from the VIDEO mode (YUV color space) inputs after 10 seconds.

#### Panel saving

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

 {Cooling Fan} - Choose to adjust the cooling fan's speed of rotation. Select {Auto} to turn on/off the cooling fan according to the display's temperature.

Choose from: {Auto} / {Off} / {Low} / {Medium} / {High}. NOTES:

- The default {Auto} option will start running the cooling fan if the temperature of 45°C (113°F) is reached, and stop running the cooling fan if the temperature of 43°C (109°F).
- A temperature-warning message will be shown on the screen if the temperature reaches 58°C (136°F). All key functions except
   [1] key will then be disabled.
- Once the temperature reaches 60°C (140°F), the display power will be shut down automatically.
- {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.

#### **Network control port**

Select the network control port.

Choose from: {RS232} / {Card OPS RS232} / {LAN ->RS232}.

NOTE: After connected to your OPS device, the option {Card OPS RS232} is functional.

#### Boot on source

Clear all the cookies, bookmarks, history list and text used for filling automatically.

#### **Configuration1 reset**

Choose to select source when boot up.

Input: select input source when bootup.

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

0: no play list. Same as switch source from OSD. 1~7: playlist number.

#### **Factory reset**

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

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

Factory reset	
Cancel	Reset

# 6.2.6. Configuration2 menu

Configuration 2	OSD turn off		<b>1111111</b> 45
	OSD H-position	•	
Advanced option	OSD V-position		
	Information OSD	•	10 Sec.
	Logo	•	On
	OSD rotation	•	Landscape
	Monitor ID	•	Action
	Heat status	•	Action
	Monitor information	•	Action
	DP Version	٠	DP 1.2
•			

#### OSD turn off

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

The options are: {0 ~ 120} seconds.

#### **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: {Off, 1 ~ 60} seconds.

#### Logo

Enable or disable to show the **PHILIPS** logo when you turn on the display.

#### **OSD** rotation

Rotate the OSD Menu.

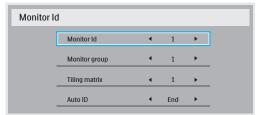
The options are:

- {Landscape} (Default)
- {Portrait}

#### 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} / {Tiling matrix} / {Auto ID}



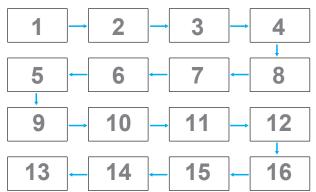
• {Monitor group}

The options are: {1-255}. The default setting is 1.

• {Tiling matrix}

Tiling matrix number range is between 1 to 15.1 is default setting. The {**Auto ID**} setup function enables setting up {**Monitor ID**} of connected machine according to {**Tiling matrix**} settings.

Example: Tiling matrix sets as 4



#### • {Auto ID}

The option are: {Start} / {End}. The default is {End}.

- Switch to Start option to set up IDs of machines backward from current one.
- Once the setup is completed, the option exits to End automatically.
- To use this function, serial connect all machines with RS-232 cable and set their Control ports to RS-232, too.

#### Heat status

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

#### **Monitor information**

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

Monitor information		
	Model name	XXBDLXXXXX
	Serial no	XXX
	Operation hours	XHXM
	SW Version	VXXX

#### **DP Version**

The option are: {DP 1.1} / {DP 1.2} / {DP 1.2 multi}. The default is {DP 1.1}.

#### Human sensor

Set the display to turn on backlight if it does sensor human and turn off backlight after an amount of time specified

The options are: {Off, 10 ~ 60} minutes.

#### HDMI edid

The option are: {HDMI 1.4} / {HDMI 2.0}. The default is {HDMI 1.4}. NOTE: HDMI 2.0 option is to support HDMI 2.0 equipment use.

#### Image rotation

Set the picture of main Window to rotate 270 degrees. The options are: {**Off**} (default) / {**On**}.

#### Window selection

Select the window for adjusting setting. The selected window will be highlight green border.

The options are: {Main}(Default), {Sub 1}, {Sub 2}, {Sub 3}.

#### Power LED light

Choose to control the power LED. The options are: {**Off**} / {**On**} (default).

#### **Configuration2 reset**

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

# 6.2.7. Advanced option menu

Configuration 2	Input resolution	•	Auto
	IR control	•	Action
Advanced option	Keyboard control	•	Action
	Tiling	•	Action
<b>J</b> Insut	Date and time		Action
	Off timer		Off
	Schedule		Action
	DDC/CI		On
	HDMI with One Wire		Off
	Auto signal detection		Action
•			

#### Input resolution

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

NOTE: This item is functional for VGA input only.

The options are:

- {1024x768 / 1280x768 / 1360x768 / 1366x768}
- {1400x1050 / 1680x1050}
- {1600x1200 / 1920x1200}
- {Auto}: Determines the resolution automatically.

The selected settings will become effective after turning off the power and turning it on again.

#### IR control

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

- {Normal} 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.
- {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 the remote control function of this display. To unlock, press and hold the [i] INFO button on the remote control for 5 (five) seconds.
- NOTE: After the main OSD menu vanished, the Primary / Secondary OSD will be displayed for 3 seconds. Or, press **[OK]** button to display the Primary / Secondary OSD when no other OSD.
- During the Primary OSD, press [-] or [-] button to adjust the value of {Control Monitor ID}, and press [] or [] button to adjust the value of {Control Group ID}.

#### Keyboard control

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

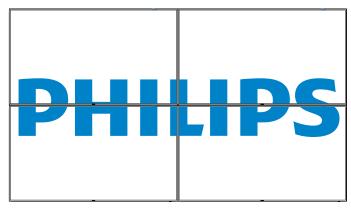
- {Unlock} Enable the keyboard function.
- {Lock All} / {Lock all but Volume} / {Lock all but Power} Disable the keyboard function.
- NOTE: To enable or disable the keyboard control lock, press both [+] and [] buttons and hold down continuously for more than 3 seconds.

#### Tiling

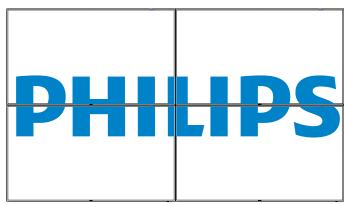
With this function you can create a single large-screen matrix (video wall) that consists of up to 150 sets of this display (up to 10-sets on the vertical and 15-sets on the horizontal sides). This function requires a daisy-chain connection.

- 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: {Manual}/{Tiling tool}
- Enable: {Yes}/{No}
- 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.

#### Frame comp. - Yes



#### Frame comp. - No



- {Enable} Choose to enable or disable the Tiling function. If enabled, the display will apply the settings in {H monitors}, {V monitors}, {Position}, and {Frame comp.}.
- {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 / Auto / 2 ~ 255}
- NOTE: The Tiling function will be disabled during using PIP function.

#### Date and time

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

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

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

#### OffTimer

Set the display to turn itself off to standby mode within an amount of time specified.

The options are: {Off, 1 ~ 24} hours from current time.

NOTE: When the "Off timer" is activated, the "Schedule" settings will be disabled.

#### Schedule

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

You can select:

- The time for the display to turn on and turn off.
- The days in a week for the display to activate.

- Which input source the display will use for each scheduled activation period.
- NOTE: We recommend you to set up current date and time in the {**Date and time**} menu before using this function.
- 1. Press [OK] or [-] button to enter the submenu.

Schedule				
	Toda	y 2017.	12.19 TUE	20:19:55
	■1 □2 □3 □4	0n :	Off :	Input
	□5 □6	⊖WED	o <b>M0N</b> othu	otue ofri
	7ם	O <b>SAT</b> Playlist	OSUN 0	⊙Every week
				Clear all

 Press [1] or [1] button to select a schedule item (item number 1 ~ 7), and then press [OK] button to mark it the item number.

Schedule	
	Today 2017.12.19 TUE 20:19:55
	■1 0n 2 3 □2 0n 0ff Input □3
	□4 □5 □6 □7 □5 0 0 0 0 0 0 0 0 0 0 0 0 0
	Playlist 0 Clear all

3. Press [-] or [-] button to select the schedule:

(1) **Power-on** schedule: Press [] or [] button to set the hour and minute for the display to turn on.

) **Power-off** schedule: Press []] or []] button to set the hour and minute for the display to turn off.

Select or leave an empty "\_\_\_\_" for both the hour and minute slot if you do not want to use this power-on or power-off schedule.

- Input-source selection: Press [] or [] button to select an input source. If no input source is selected, the input source will remain the same as last selected.
- (4) Date schedule: Press [-] button to select which day in a week this schedule item will be take effect, and then press the [OK] button.
- 4. For additional schedule settings, press [], then repeat the steps above. A check mark in the box next to the number of the schedule item indicates that the selected schedule is in effect.

#### NOTES:

- If the schedules overlap, the scheduled power-on time takes priority over scheduled power-off time.
- If there are two schedule items programmed for the same time, the highest numbered schedule takes priority. For example, if schedule items #1 and #2 both set the display to power on at 7:00 AM and off at 5:00 PM, then only schedule item # 1 will take effect.

#### DDC/CI

Choose to turn on or off the DDC/CI communication function. Select  $\{{\bf On}\}$  for normal use.

DDC/Cl (Command Interface) specifies a means for a computer to send commands to the monitor, as well as receive sensor data from the monitor, over the bidirectional link such as DDC2Ab/Bi/B+.

Specific commands to control monitors are defined in a separate Monitor Control Command Set (MCCS) standard.

DDC/CI monitors are sometimes supplied with an external color sensor to allow automatic calibration of the monitor's color balance. Some tilting DDC/CI monitors support an auto pivot function, where a rotation sensor in the monitor enables the operating system to keep the display upright as the monitor is moved between its portrait and landscape positions.

The following DDC/CI commands should be supported via command line:

No.	Commands	No.	Commands
1	Set Brightness	6	Get Brightness
2	Set Contrast	7	Get Contrast
3	Set Red Gain	8	Get Red Gain
4	Set Green Gain	9	Get Green Gain
5	Set Blue Gain	10	Get Blue Gain

NOTE: This item is functional for VGA input only.

#### HDMI with One Wire

CEC control.

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

#### Auto signal detection

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

• {Off} - Once a signal is connected, it can only be selected manually. If the selected input is no signal, set the display to display the image automatically according to the search order of each option.

The options are: {All} / {PC source only} / {Video source only} / {Failover}

- {AII}: DP / HDMI1 / HDMI2 / HDMI3 / DVI / VGA / Component / OPS.
- {Failover}
  - · Failover 1-12: User-defined setting, Default: HDMI,

#### **OPS** settings

Set the OPS configuration under each power condition.

- {Auto} After selecting {Card OPS} for video source input, the OPS will be set to off when the display power is set to off, or set to on when the display power is set to on. When set to other video source inputs, the OPS will always be set to on.
- {Always off} The OPS will always be set to off.
- {Always on} The OPS will always be set to on.

#### 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 the transparency of the OSD. Value: Off(0)-100, default Off.

#### **USB** cloning

Import/Export user settings.

- {Import}: Import user settings from USB flash device.
- {Export}: Back up user settings to USB flash device.

#### 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.

#### APM

Power save setting.

- Off (TCP off/WOL off) not support WOL / not support wake up on TCP socket.
- Mode 1 (TCP off/WOL on) support WOL / not support wake up on TCP socket.
- Mode 2 (TCP on/WOL off) not support WOL / support wake up on TCP socket.

## 6.2.8. Input menu

Configuration 2	Video source	•	VGA
Configuration 2	Sub 1	٠	VGA
Advanced option		٠	
Auvanced option	Sub 3	•	VGA
	Audio source	•	Audio 1
	PIP audio	•	Main
	Card OPS audio		Digital
	Input reset		Cancel
•			

#### Video source

Select a video input source.

Choose from: {Displayport} / {DVI-D} / {VGA} / {HDMI1} / {HDMI2} / {HDMI3} / {Media Player} / {BROWSER} / {SmartCMS} / {PDF Player} / {Custom} / {Card OPS}.

#### Sub 1

Select the input signal for the sub Win1 picture.

Choose from: {Displayport} / {DVI-D} / {VGA} / {HDMI1} / {HDMI2} / {HDMI3} / {Media Player} / {BROWSER} / {SmartCMS} / {PDF Player} / {Custom} / {Card OPS}.

#### Sub 2

Select the input signal for the sub Win2 picture.

Choose from: {Displayport} / {DVI-D} / {VGA} / {HDMI1} / {HDMI2} / {HDMI3} / {Media Player} / {BROWSER} / {SmartCMS} / {PDF Player} / {Custom} / {Card OPS}.

# 75BDL4150D

## Sub 3

Select the input signal for the sub Win3 picture.

Choose from: {Displayport} / {DVI-D} / {VGA} / {HDMI1} / {HDMI2} / {HDMI3} / {Media Player} / {BROWSER} / {SmartCMS} / {PDF Player} / {Custom} / {Card OPS}.

#### Audio source

Select the audio input source according to the audio signal source connected to the audio input and HDMI sockets on the display.

 $\label{eq:choose from: Analog} $$ / {Displayport} / {Audio1} / {Audio2} / {Media}. $$$ 

#### **PIP** audio

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

- {Main} Select audio from the main picture
- {Sub 1} Select audio from the sub1 picture.
- {Sub 2} Select audio from the sub2 picture.
- {**Sub 3**} Select audio from the sub3 picture.

#### Card OPS audio

Select the analog or digital audio mode for card OPS.

#### Input reset

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

# 7. Supported Media Formats

# **USB Multimedia Codec Formats**

Video Decod	e					
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	Audio MPEG1/2/2.5 Audio MP3 V 2	V 2	Bit Rate: 8kbps~320Kbps			
	Layer1/2/3	0 1 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
AAC Audio	MAIN, ADIF ,ATDS Header AAC-LC and AAC-HE	File Format: AAC, M4A	V		51	Bit Rate: N/A Sampling Rate: 8KHZ~48KHz

## 75BDL4150D

### 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/DVI timing support:

	r unning support.			
ltem	Mode	Resolution	H.Freq. (KHz)	V.Freq. (Hz)
1	IBM VGA 10H	640×350	31.469	70.086
2	IBM VGA 12H	640×480	31.469	59.94
3	MACINTOSH	640×480	35	66.67
4	VESA	640×480	37.861	72.809
5	VESA	640×480	37.5	75
6	IBM VGA 3H	720×400	31.469	70.087
7	VESA	800×600	35.156	56.25
8	VESA	800×600	37.879	60.317
9	VESA	800×600	48.077	72.188
10	VESA	800×600	46.875	75.000
11	MACINTOSH	832×624	49.726	74.551
12	VESA Standard AddDMT	848×480	31	60.000
13	-	960×720	56.4	75.000
14	VESA	1024×768	48.363	60.004
15	VESA	1024×768	56.476	70.069
16		1152×864	53.986	59.985
17	VESA	1152×864	53.783	59.959
18		1152×864	63.851	70.012
19	VESA	1152×864	67.5	75.000
20	SUN WS	1152×900	61.846	66.004
21	-	1280×720	44.772	60.000
22	-	1280×720	52.5	70.000
23	CVT 2.3MA	1280 ×768	47.776	59.870
24	CVT 2.3MA	1280 ×768	60.289	74.893
25	CVT	1280×800	49.7	59.810
26	CVT	1280×800	62.8	74.930
27	VESA	1280×960	60	60.000
28	VESA	1280×1024	63.981	60.020
29	SUN WS	1280×1024	71.691	67.189
30	VESA	1280×1024	79.976	75.025
31	VESA Standard AddDMT	1360×768	47.712	60.015
32	VESA Standard AddDMT	1366×768	47.712	59.790
33	VESA-reduced blanking mode	1440×900	55.469	59.901
34	VESA	1440×900	55.935	59.887
35	VESA	1440×900	70.635	74.984
36	CVT-reduced blanking	1400×1050	64.744	59.948
37	CVT AddDMT	1440×1050	65.3	60.000
38	CVT	1400×1050	82.278	74.867
39	CVT Red. Blanking	1600×900	55.54	60.000
40	VESA	1600×1200	75	60
41	CVT1.76MW	1680×1050	65.29	59.954
42	CVT1.76MW-R	1680×1050	64.674	59.883
43	CVT 2.3MA-R	1920×1080	66.587	59.934
44	VESA Standard VDMTREV	1920×1080	67.5	60.000
45	CVT1960H	1920×1080	67.1584	59.963
46	VSC1960H	1920×1080	67.08	60
47	CVT 2.3MA-R	1920×1200	74.038	59.950

# 75BDL4150D

#### 4K2K

ltem	Resolution	H.Freq. (KHz)	V.Freq. (Hz)
1	3840×2160	53.946	23.900
2	3840×2160	54	24.000
3	3840×2160	56.25	25.000
4	3840×2160	67.432	29.900
5	3840×2160	67.5	30.000
6	4096×2160	54	24.000
7	3840×2160	135	60.000

Video Timing support(HDMI/DVD HD/DVI)

Item	Mode	Resolution	Comment
1	60Hz	480i	except DVI
2		480p	
3		720p	
4		1080i	
5		1080p	
6		4Kx2K	except DVI
7	50Hz	576i	except DVI
8		576p	
9		720p	
10		1080i	
11		1080p	
12		4Kx2K	except DVI

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

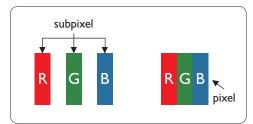
- The PC text quality is optimum in HD 1080 mode (1920 × 1080, 60Hz).
- Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows).
- Check your PC instruction book for information about connecting your PC to a display.
- If a vertical and horizontal 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



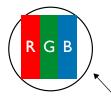
A pixel, or picture element, is composed of three sub-pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub-pixels of a pixel are lit, the three colored sub-pixels together appear as a single white pixel. When all are dark, the three colored sub-pixels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

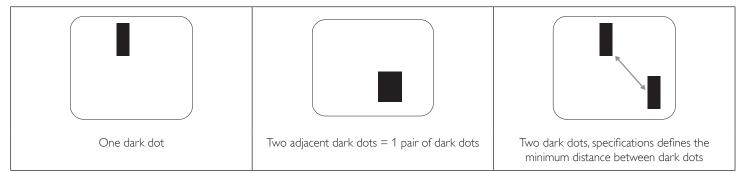
# 9.3. Bright Dot Defects

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 use solution that contains oil to clean the plastic parts. Such product damage the plastic parts and void the warranty.
- 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	<ol> <li>The power cord is disconnected.</li> <li>The main power switch on the back of the display is not switched on.</li> <li>The selected input has no connection.</li> <li>The display is in standby mode.</li> </ol>	<ol> <li>Plug in the power cord.</li> <li>Make sure the power switch is switched on.</li> <li>Connect a signal connection to the display.</li> </ol>
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	<ol> <li>The signal cable is not connected properly.</li> <li>The input signal is beyond the capabilities of the display.</li> </ol>	<ol> <li>Make sure that the signal cable is attached firmly.</li> <li>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.</li> </ol>
Display image doesn't fill up the full size of the screen	<ol> <li>The zoom mode is not set correctly.</li> <li>Scan Mode may be set incorrectly to underscan.</li> <li>If the image exceeds the screen size, Scan Mode may need to be set to Underscan.</li> </ol>	Use the Zoom mode or Custom zoom function in the Screen menu to fine tune display geometry and time frequency parameter.
Can hear sound, but no picture	Improperly connected source signal cable.	Make sure that both video inputs and sound inputs are correctly connected.
Can see picture but no sound is heard	<ol> <li>Improperly connected source signal cable.</li> <li>Volume is turned all the way down.</li> <li>{Mute} is turned on.</li> <li>No external speaker connected.</li> </ol>	<ol> <li>Make sure that both video inputs and sound inputs are correctly connected.</li> <li>Press [+] or [-] button to hear sound.</li> <li>Switch MUTE off by using the [I) button.</li> <li>Connect external speakers and adjust the volume to a suitable level.</li> </ol>
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:

Item	Specifications
Screen Size (Active Area)	189.3 cm / 74.5 inches
Aspect Ratio	16:9
Number of pixels	3840 (H) × 2160 (V)
Pixel pitch	0.429 (H) x 0.429 (V) [mm]
Displayable colors	1.07 Billion colors
Brightness (typical)	500 cd/m <sup>2</sup>
Contrast ratio (typical)	1200:1
Viewing angle	178 degrees

## In/Out Terminals:

ltem		Specifications		
Speaker Output	Internal Speakers	10W (L) + 10W (R) [RMS]/8Ω 82 dB/W/M/160 Hz ~ 13 KHz		
SPDIF Output	SPDIF Port	Serial digital audio output when input is HDMI		
Audio Output	3.5mm phone jack 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	3.5mm phone jack x 3	RS232C in X2 / RS232C out		
RJ-45	RJ-45 Jack x 1 (8 pin)	1000 baseT		
HDMI Input	HDMI Jack x 3 (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 / out	Displayport Jack × 3 (20 pin) (in ×1/out ×2)	Digital RGB:TMDS (Video + Audio) MAX: Video - 720p, 1080p, 3840 x 2160/30 Hz Audio - 48 KHz / 2 Channel (L+R) Supports LPCM only		
DVI-D Input	DVI-D jack	Digital RGB:TMDS (Video)		
OPS Input	Plug connector (80 pin)	TMDS 3840x2160@30Hz		
SD card	Micro SD card	Support to 128GB		
OTG	Mini USB	Service only		
USB Input	USB2.0 TypeA x1 USB3.0 TypeA x1	USB2.0 USB3.0		

#### General:

Item	Specifications
Power Input	100 - 240V~, 50 - 60Hz, 7.5A
Power Consumption (Max)	395 W
Power Consumption (typ.)	230 W
Power Consumption (Standby & Off)	<0.5 W
Dimensions (Without Stand) $[W \times H \times D]$	1676.6 x 955.0 x 73.8 mm
Weight (Without Stand)	55.0 Kg
Gross Weight (Without Stand)	78.5 Kg

# **Product Fiche :**

Item	Specifications
Energy Efficiency Class	В
Visible Screen Size	189.3 cm / 74.5 inches
On Mode Power Consumption (W)	239 W
Annual Energy Consumption (kWh)	348 kWh
Standby Power Consumption (W)	0.50 W
Off Mode Power Consumption (W)	0.50 W
Display Resolution (Pixels)	3840 × 2160
Network Standby (W)	5 W

# **Environmental Condition:**

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



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