

# Brilliance

272B7



www.philips.com/welcome

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### 1. Important

This electronic user's guide is intended for anyone who uses the Philips monitor. Take time to read this user manual before you use your monitor. It contains important information and notes regarding operating your monitor.

The Philips guarantee applies provided the product is handled properly for its intended use, in accordance with its operating instructions and upon presentation of the original invoice or cash receipt, indicating the date of purchase, dealer's name and model and production number of the product.

# 1.1 Safety precautions and maintenance

### Warnings

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 computer monitor.

Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the

equalizer to maximum increases the earphones and headphones output voltage and therefore the sound

### pressure level.

### Operation

 Please Keep the monitor out of direct sunlight, very strong bright lights and away from any other heat source. Lengthy exposure to this type of environment may result in discoloration and damage to the monitor.

- Remove any object that could fall into ventilation holes or prevent proper cooling of the monitor's electronics.
- Do not block the ventilation holes on the cabinet.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.
- If turning off the monitor by detaching the power cable or DC power cord, wait for 6 seconds before attaching the power cable or DC power cord for normal operation.
- Please use approved power cord provided by Philips all the time. If your power cord is missing, please contact with your local service center. (Please refer to Customer Care Consumer Information Center)
- Do not subject the monitor to severe vibration or high impact conditions during operation.
- Do not knock or drop the monitor during operation or transportation.

### Maintenance

- To protect your monitor from possible damage, do not put excessive pressure on the LCD panel. When moving your monitor, grasp the frame to lift; do not lift the monitor by placing your hand or fingers on the LCD panel.
- Unplug the monitor if you are not going to use it for an extensive period of time.
- Unplug the monitor 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 monitor.

#### . Important

- To avoid the risk of shock or permanent damage to the set, do not expose the monitor to dust, rain, water, or excessive moisture environment.
- If your monitor gets wet, wipe it with dry cloth as soon as possible.
- If foreign substance or water gets in your monitor, please turn the power off immediately and disconnect the power cord. Then, remove the foreign substance or water, and send it to the maintenance center.
- Do not store or use the monitor in locations exposed to heat, direct sunlight or extreme cold.
- In order to maintain the best performance of your monitor and use it for a longer lifetime, please use the monitor in a location that falls within the following temperature and humidity ranges.
  - Temperature: 0-40°C 32-104°F
  - Humidity: 20-80% RH

#### Important information for Burn-in/ Ghost image

- Always activate a moving screen saver program when you leave your monitor unattended. Always activate a periodic screen refresh application if your monitor 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.
- "Burn-in", "after-imaging", or "ghost imaging" 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

Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or "afterimage" or "ghost image" symptoms that will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

#### Service

- The casing cover should be opened only by qualified service personnel.
- If there is any need for any document for repair or integration, please contact with your local service center. (please refer to the chapter of "Consumer Information Center")
- For transportation information, please refer to "Technical Specifications".
- Do not leave your monitor in a car/ trunk under direct sun light.

### Note

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

### 1.2 Notational Descriptions

The following subsections describe notational conventions used in this document.

### Notes, Cautions and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold or italic type. These blocks contain notes, cautions or warnings. They are used as follows:

### Note

This icon indicates important information and tips that help you make

#### . Important

better use of your computer system.

### Caution

This icon indicates information that tells you how to avoid either potential damage to hardware or loss of data.

### **Warning**

This icon indicates the potential for bodily harm and tells you how to avoid the problem.

Some warnings may appear in alternate formats and may not be accompanied by an icon. In such cases, the specific presentation of the warning is mandated by the relevant regulatory authority.

# 1.3 Disposal of product and packing material

Waste Electrical and Electronic Equipment-WEEE



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.

Your new monitor 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.

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into mono materials.

Please find out about the local regulations on how to dispose of your old monitor and packing from your sales representative.

# Taking back/Recycling Information for Customers

Philips establishes technically and economically viable objectives to optimize the environmental performance of the organization's product, service and activities.

From the planning, design and production stages, Philips emphasizes the important of making products that can easily be recycled. At Philips, endof-life management primarily entails participation in national take-back initiatives and recycling programs whenever possible, preferably in cooperation with competitors, which recycle all materials (products and related packaging material) in accordance with all Environmental Laws and taking back program with the contractor company.

Your display is manufactured with high quality materials and components which can be recycled and reused.

To learn more about our recycling program please visit

http://www.philips.com/a-w/about/ sustainability.html

## 2. Setting up the monitor

### 2.1 Installation

### 1 Package contents











\*HDMI

\*mini DP (272B7QPTKEB)

\*Different according to region



\*DP

\*USB (272B7QPTKEB)



\*VGA

- Install the base
- 1. Place the monitor face down on a smooth surface. Pay attention not to scratch or damage the screen.



- 2. Hold the stand with both hands.
  - (1) Gently attach the stand to the VESA mount area until the latch locks the stand.
  - (2) Gently attach the base to the stand.
  - (3) Use your fingers to tighten the screw located at the bottom of the base, and secure the base to the stand tightly.



### Warnings



3 Connecting to your PC

### 272B7QPJEB:



- Kensington anti-theft lock
- 2 Audio input
- 3 Earphone jack
- 4 HDMI input
- 5 Display port input
- 6 VGA input
- AC power input
- 8 Power Switch
- 9 USB upstream
- 10 USB downstream
- USB fast charger

272B7QPTKEB:



- 2 HDMI input
- B Display port input
- mini Display port input
- 5 VGA input
- 6 DisplayPort output
- Audio input, Earphone jack
- 8 AC power input
- 9 Power Switch
- 🚺 USB upstream
- USB downstream
- USB fast charger/USB downstream

#### 2. Setting up the monitor

#### Connect to PC

- 1. Connect the power cord to the back of the monitor firmly.
- 2. Turn off your computer and unplug its power cable.
- 3. Connect the monitor signal cable to the video connector on the back of your computer.
- Plug the power cord of your computer and your monitor into a nearby outlet.
- 5. Turn on your computer and monitor. If the monitor displays an image, installation is complete.

#### USB hub

To comply with International energy standards, the USB hub/ports of this display are disabled during Sleep and Power Off modes.

Connected USB devices will not work in this state.

To permanently put the USB function in "ON" state, please go to OSD Menu, then select "USB standby mode", and switch it to "ON" state.

#### USB charging

This display has USB ports capable of standard power output including some with USB Charging function (identifiable with power icon 2000). You can use these ports to charge your Smart phone or power your external HDD, for example. The display must be powered ON at all times to be able to use this function.

Some select Philips displays may not Power or Charge your device when it enters to "Sleep" mode (White power LED blinking). In that case, please enter to OSD Menu and select "USB Standby Mode", then, turn the function to "ON" mode (default=OFF). This will then keep the USB power and charging functions active even when the monitor is in sleep mode.

#### 272B7QPJEB:

	H.Position	• Off
	V.Position	•
	Phase	
1 OSD Sottings	Clock	
- USD Settings	Resolution Notification	on.
Sotup	USB Standby Mode	
Jetup	Reset	
	Information	•
•		

#### 272B7QPTKEB:

	H.Position	• Off
	Phase	•
1 OSD Sottings		
USD Settings	Resolution Notificatio	n.
A Sotup	USB Standby Mode	•
Jetup	DP Out Multi-Stream	
	Display Port	
	Reset	•
•		

### Note

If youturn off you monio via the power swicy given time, allthe USBwillwer OFF.

#### Warning

USB4Gwivic as, wiybod, headphones, maybyterference by the high-speed signal of USB 3.Ovicwy result in a dffici of the radio transmission. Should this happen, pl the followinmo help reduce the efff interference.

- Try tokeep USB2.Oreceivers away fomUSB3.Oconnpo
- Use a standardexension cable o USBhub toincease the space

# been you wieless receiver and the USB3.0connpo

### 2.2 Opating the monio

1 Df the controlon

### 272B7QPJEB:





0	ወ	Swiow ON .
2	■/OK	Accthe OSD . ConfiOSD adjustment.
3		Adjuthe OSD
4	SENSOR	Pow
6	Ð	Change the signal input source.
6	•	RtoviouSD lv .
Ø	۲	Sm hot key. are 7 modes to Officto, Movi Gconomy,owBlu ModOff.

272B7QPTKEB:



0	ወ	Swiow ON .	
2	■/OK	Accthe OSD . ConfiOSD adjustment.	
3		Adjuthe OSD	
4	SENSOR	Pow	
G	Ð	Change the signal input source.	
6	•	RtoviouSD lv .	
7	Œ٦	Sm hot key. are 7 modes to Officto, Movi Gconomy,owBlu ModOff.	
8	Webcam activity light		
9	2.0Megapixel Webcam		
1	Micop		

#### 2 Df the Ony

#### Wn-Scy (OSD)?

On-Sceen Display (OSD)feature inllipCD monitot allows an end user toeen perfoe o select funcf the monito diectly throueen inwindow.A user fy on screen display interface is shown bow:

PowerSensor	On	
	Off	
LowBlue Mode		
Picture		
Audio		
· •		
*		

#### Bthe controlys

Inthe OSDwnve, youan press ▼ ▲ buttonthe font bezel of the monio tove the cursor,ess OK buttontoonfithe choice or ce.

#### TSD

Bow is an overallviw of the structure of the On-Sceen Display.Youan use this as a reference wyouwant to woyou way aroundthe different adjustments later on.

### Note

Ty has "DPS" fo ECO the default setting is "ON" mode: it mthe screen looks slightly dim; fo optimum brightness, enter tothe OSDtoto (272B7QPTKEB)

Main menu	Sub menu	
PowerSensor	On	0, 1, 2, 3, 4
	└── Off	
<ul> <li>LowBlue Mode</li> </ul>	On	1, 2, 3
	└── Off	
- Input	VGA	
	- HDMI	
	<ul> <li>DisplayPort</li> </ul>	
	Mini DP	aller and delta
Picture	(available for selec	Wide Careen 4-2 1-1
ricture	Picture Format	wide Screen, 4:5, 1:1
	Contract	0~100
	Sharphers	0~100
	- SmartResponse	Off East Easter Eastert
	- SmartContrast	Off On
	- Gamma	<u> </u>
	Divel Orbiting	07.0
	Over Scan	— Off, On
	DPS	
	(available for selec	tive models)
— Audio	- Volume	0~100
	— Stand-Alone	- On, Off
	— Mute	- On, Off
	Audio Source	<ul> <li>Audio In, HDMI, DisplayPort, Mini DP</li> </ul>
		(available for selective models
— Color	Color Temperatur	e 5000K, 6500K, 7500K, 8200K, 9300K, 11500K
	- sRGB	020010 350010 1150010
	User Define	Red: 0~100
		Green: 0~100
		Blue: 0~100
— Language	<ul> <li>English, Deutsch, Maryar, Nederland Polski, Русский, Sv Українська, 简体中</li> </ul>	Español, Eλληνική, Français, Italiano, ds, Português, Português do Brazil, zenska, Suomi, Türkçe, Čeština, i文. 繁體中文.日本語, 한국어
<ul> <li>OSD Settings</li> </ul>	Horizontal	0~100
	<ul> <li>Vertical</li> </ul>	0~100
	- Transparency	Off, 1, 2, 3, 4
	- OSD Time Out	
— Setup	Auto	0, 100
	V Position	- 0~100
	- Phase	- 0~100
	- Clock	
	- Resolution Notific	ation — On, Off
	- USB Standby Mod	le — On, Off
	DP Out Multi-Stre	am — Clone, Extend
	(available for sele	ective models)
	Displayport     (available for sele     Reset	
	Information	

#### 3 Rtification

To is designed fo optimal poe at its native resolution, 2560z.Wthe monito iwered on at a different resolution, an alert is displayed on screen: Use 2560zfo best results.

Diy of the native resolution alert can be swicff fom the OSD (Oneen Display)

### Height adjustment



4 Psical Func

Tilt



Pivot



Swiv



### 2.3 Remove the By fo VESA Mounting

Bfoe youthe monio bplease follow the inow tovoidy possible de or injury.

1. Exthe monio btoi mheight.



 Plthe monio face downona smooth surface. Pay attention not toscratch o dthe screen. Tlifthe monio stand.



 Wlkthe release buon ptilt the band slide i ou



### Note

Ts monitor accepts a 100mm x 100mm VESA-omplit mounting interface. VESA Mounting Screw M4.Always contact macturer fo wall-mount inl



### 3. Ime Optimization

### 3.1 Smme

### 1 W

Smme providesets that optimize diy fo different types of content, dynamically adjusting btness, contrast, colo and sharpness in real time. W you'e wotexapplications, diyines or watcvid Plipmme delivers great optimized monito perfoe.

2 W do I need it?

Youwant a monito that delivers optimized display allyou favoe types of content, Smme sofare dynally adjust brightness, contrast, colo and sharpness in real time toenhance you monio viewin expe.

3 How does it wo

Smxclu

edge Plipogy that analyz the content displayyou screen. Byou Smally enhances the contrast, colo saturation and sharpness of images tothe contents byltime wi the press of a single button. 4 How to?



- 1. P 🖾 tolthe Sm onscreen diy.
- Kp ▼▲ totoggle among Office, Pto,MoviG Economy,LowBluModand Off.
- TSmonscreen diy willremain onscreen fo 5second o youcan also press "OK" tom confi

Te are seven modes toect: Office, Photo,oviconomy, LowBluod.



 Office: Enes texand d btness toincease readabili and reduce eye strain. Tmod significantly enhances readabili and poduc when you'e wowispreadsheets, PD

#### 3. Image Optimizatior

files, scanned articles o other general office applications.

- Photo: Tpofile combincolo saturation, dyncontrast and sharpness enhancement todiy ptoand other imes wi oucl invibant colo -allwiartifacts and faded colo
- Movie: Ramped uplumine, dcolo saturation, dyn contrast and razo sharpness diys every dlinder areas of you videos without colo washout inbter areas mtaining a dynamic nal values fo the ultimate vid diy.
- Game: Tuonover drive cicuifo bresponse time, reduce jgy edges fo fast movinobjon screen, enhance contrast ratio fo bt and dscheme, this pofile ders the bgaming expe fo gamers.
- Economy: Und this pofile, btness, contrast are adjusted and bting finfo ju right diy of everydy office applications and lower power contion.
- LowBlue Mode: LowBluMod fo easy on-yes poduc Studies have shownthat juas ultra-violet rays can cause eye de, shortwave length blulit rays fomLEDdiys can cause eye de and affect viover time. Developfo wellb PlipLowBluModsetting u a smart sofare technology to reduce harmful shortwave blu lit.
- Off: Nooptimization by Smme.

### Note

PlipowBlu complie wiTUV Low Blue Lit certification, youan have this mode by simply press the hotkey @7,pess ▲ toect LowBluodve Smme selection steps.

### 3.2 SmContrast

### 1 W

Uniquechnology that dynally analyzes displayed content and automally optimizes a Monio contrast ratio fo maximum vi and viwinymt, stepping up bting fo clearer, and bter images or dimming backlighting fo clear display of images on dark bground

### 2 W do I need it?

Youwant the very bcl and viwinomfofo every type of content. SmContrast dynamically controlontrast and adjusts bting fo clear,t gaming and vides or displays clear,readable texo office wo By reducing you monitower contion, youve on energy co and exend the lifetime of you monito.

### 3 How does it wo

Wyouate SmContrast, it will analyse the content youe displayin ineal time tooloontrol bt intensity.funcwill dynally enhance contrast fo a great entertainment expe w viwinvid playinames.

### 4. PowerSensor™

#### How does it wo

- PowerSensor wos onpe of transmission and reception of harmless "infared" signals inod todect u-pesence.
- Wthe u iinfont of the monio,the monio opates noly,at the pedetermined settings that the user has set- i. btness, contrast, colo,etc
- Athat the monio was set to100% of btness fo example, wthe u leaves his seat and inoloner infont of the monio, the monio automally reduces the power contion upto80%.

User present in font

User not present



Power contion as illuated above is fo reference purpose only

### 2 S

### Default settings

PowerSensor is designed toect the pesence of the user located between 3012)fom

the display and wifive degrees lef o right of the monito.

#### Custom settings

#### If youefer to

the perimeters listed above, choose a higher strength signal fo optimal dection effici:T the setting, the stroner the dection signal. Fo maximum PowerSensor effici and prop detection, please poyouf directly in font of you monio.

 If youctopoyouf moe than 100cmo 40inc fomthe monio uthe m dection signal fo dies upto 120cmo 47inc(S4)

 Since some dcoloed clothing tends toabsorb infared signals even wthe u iwi100cm o 40incof the diy,step up signal strength wwearing bl o other dclothes.

### Hot key

#### Sensor distance





### Landscape/Portrait mode



Above illuations are fo reference purpose only,y not reflect the exact display of this model.

### 3 How to

If PowerSensor is not operating correctly inside or outside the default range, here's how to fine-tune detection:

- Press the PowerSensor hot key.
- Youwillfindthe adjustment b.
- Adjuthe PowerSensor dection adjustment toS4and pess OK.
- Test the nw setup tosee if PowerSensor popy dects you inyou cuent position.
- PowerSensor funcid towoinLape mod (ontal po)only.Afer PowerSensor turn oniiwill automally turn Off if the monio iuinPoait mod (90dee/vertical po);iwill automally turn ONif monio i

returned toidfault Lape po

Note

A manually selected PowerSensor modwillemain operational unless and untileadjusted or the default modecalled. If youfindthat the PowerSensor is excessively sensitive to ny motion fo some reason, please adjust toower signal strength. Keep sensor lens clean, if the sensor lens i,wipwicotovoid reducing of distance detection.

### 5. Built-in Webcam wi Micop

(Availe fo 272B7QPTKEB)

### Sonnthe monito

and Pirequired fo the wam to opate.

Twebcam allows youto interactive vidonference callver the internet. It providthe moonvenient and easiest way fo Butoommunicate wi other colleagues aroundthe wo savinot time and money.epending onthe sofare used, it also allows youtotake photoe files or use micopy wi webcam. Top

webcam. lop

lit are on the side of the webcam on the bezel of the display.



### 5.1 Pystem requirements

- Opating system :icof Windows 7,MicofWindows ViMicofWindows XP (SP2),and any other OSwver support UVC/UAC (USBVidCl complit /AudioClcomplit) und USB2.0standard
- Processor: 1.6GHzo above
- RAM:512MB(fo XP)/1GB(fo Vi and Windows7)
- Harddispace: minimum200MB
- USB:USB2.0o above, UVC/UAC support

### 5.2 Using the device

Plipmonio with webcam dvice transmits vidthrou USBt can be enabled by simply connou USBcable fomou Ptothe USB upstream of USB hub on the side IO of monito.



- Connyou USB cable to upeam of USB hub onthe side IO of monio fomPside.
- Tuonyou Pand me sure you internet conniwo popy.
- Downloand enable fee onlincsofare such as SkypInternet Messenger,o equivalent. Youcan also subscribe todated sofare incase of

moe sophisticated ue like multi conferencing, etc.

- Twebcam iready tobufo co me the pcallthrou internet service.
- Make the callby followinthe inf the sofare program.

#### **Note** Tovidall,youv

a reliable Internet conn and sofare like Internet messenger o vidallogram. Make sure the person that youallin compallinsofare. The vido dthe bandwidth avail both ends. Tyouallin muvl capabili of devic and sofare.

### 6. Daisy-c

(Availe fo 272B7QPTKEB)

Daisy-ces multiple monito conn

Tlipy is equipped wi DiyPoterface wes dy-ctotiple displays. Now youan daisy chain and use multiple monitovie cable fomy tothe nex

How toy chain display

- ConnDiyPocable tomini
   DP o DP pofomltop
- Tody ctothe 2nddiy, connDiyPocable tomin DP o DP pofomthe fidiy DP oupo
- Repeat above steps, youcan dy cmultiple diys
- Refer bow table fo the numb of multiple display c



### Note

1. Dthe capabilif you graphic cardyou toy chain multiple displays wi various confiations. You display confiations willyou graphic cardapabili wiyou graphic cardv and always update you graphic card.

2. Ttwovail wyouy chaining: "Clon "Exenter the followinOSD mfo the selection: OSD S Outi-Stream / Clon Ex

	Auto	Clone
	H.Position	Extend
	V.Position	
USD Settings	Resolution Notificatio	n.
Cotun	USB Standby Mode	
- Setup	DP Out Multi-Stream	•
	Display Port	
•		

Display Resolution (standard 60 Hz)	DisplayPort Default	Maximum number of display chaining(including 1st motherboard connection display) Extend mode (DP1.2)
1680 x 1050	DisplayPort1.1	5
1920 x 1080 (1080p) or 1920 x 1200	DisplayPort1.1	4
2560 x 1440	DisplayPort1.1	2

# 7. Technical Specifications

Picture/Display			
Monitor Panel Type	IPS Technology		
Backlight	LED		
Panel Size	27" W (68.5 cm)		
Aspect Ratio	16:9		
Pixel Pitch	0.2331(H) mm x 0.2331(V) mm		
SmartContrast	20,000,000:1		
Response Time (typ.)	14 ms(GtG)		
SmartResponse Time (typ.)	5 ms(GtG)		
Optimum Resolution	DP:2560 x 1440 @ 60 Hz VGA:1920 x 1080 @ 60 Hz HDMI:2560 x 1440 @ 60 Hz		
Viewing Angle	178° (H) / 178° (V) @ C/R > 10		
Display Colors	16.7 M		
Flicker Free	Yes		
Picture Enhancement	SmartImage		
Vertical Refresh Rate	50 Hz - 76 Hz		
Horizontal Frequency	30 kHz - 99 kHz		
sRGB	YES		
LowBlue Mode	YES		
Connectivity			
Signal Input/Output	VGA( Analog), HDMI 1.4(Digital), DisplayPort 1.2, mini DP 1.2(272B7QPTKEB), DisplayPort Out(272B7QPTKEB)		
USB	272B7QPJEB: USB 3.0×4 includes 1 fast charger 272B7QPTKEB: USB 3.0×3 includes 1 fast charger		
Input Signal	Separate Sync, Sync on Green		
Audio In/Out	PC audio-in,headphone out		
Convenience			
Built-in speaker	2 W x 2		
Built-in webcam	272B7QPTKEB: 2.0 megapixel camera with Micro- phone and LED indicator		
User Convenience	Image: The sensor /▲ ■ / OK		
OSD Languages	English, German, Spanish, Greek, French, Italian, Hungarian, Dutch, Portuguese, Brazil Portuguese, Polish, Russian, Swedish, Finnish, Turkish, Czech, Ukranian, Simplified Chinese, Traditional Chinese, Japanese, Korean		
Other Convenience	VESA mount(100×100mm), Kensington Lock		
Plug & Play Compatibility	DDC/CI, sRGB, Windows 10/8.1/8/7, Mac OS X		
Stand			
Tilt	-5 / +30 degree		
	-175 / +175 degree		

Picture/Display			
Height adjustment	150mm		
Pivot	90 degree		
Power(272B7OPJEB)			
Consumption	AC Input Voltage at 100VAC , 50Hz	AC Input Voltage at 115VAC , 50Hz	AC Input Voltage at 230VAC, 50Hz
Normal Operation	43.90W (typ.)	44.00W (typ.)	44.10W (typ.)
Sleep (Standby)	<0.5W	<0.5W	<0.5W
Off	<0.3W	<0.3W	<0.3W
Off (AC switch)	0 W	0 W	0 W
Heat Dissipation*	AC Input Voltage at 100VAC , 50Hz	AC Input Voltage at 115VAC , 50Hz	AC Input Voltage at 230VAC , 50Hz
Normal Operation	149.83 BTU/hr (typ.)	150.17 BTU/hr (typ.)	150.51 BTU/hr (typ.)
Sleep (Standby)	<1.71 BTU/hr	<1.71 BTU/hr	<1.71 BTU/hr
Off	<1.02 BTU/hr	<1.02 BTU/hr	<1.02 BTU/hr
Off (AC switch)	0 BTU/hr	0 BTU/hr	0 BTU/hr
On Mode(ECO mode)	18.5W (typ.)		
PowerSensor	8.8W (typ.)		
Power LED indicator On mode: White, Standby, (blinking)		Standby/Sleep mo	ode: White
Power Supply	Built-in, 100-240V AC, 50-60Hz		
Power(272B7QPTKEB)			
Consumption	AC Input Voltage at 100VAC , 50Hz	AC Input Voltage at 115VAC , 50Hz	AC Input Voltage at 230VAC, 50Hz
Normal Operation	44.50W (typ.)	44.60W (typ.)	44.70W (typ.)
Sleep (Standby)	<0.5W	<0.5W	<0.5W
Off	<0.3W	<0.3W	<0.3W
Off (AC switch)	ΟW	ΟW	0 W
Heat Dissipation*	AC Input Voltage at 100VAC , 50Hz	AC Input Voltage at 115VAC , 50Hz	AC Input Voltage at 230VAC , 50Hz
Normal Operation	151.88 BTU/hr (typ.)	152.22 BTU/hr (typ.)	152.56 BTU/hr (typ.)
Sleep (Standby)	<1.71 BTU/hr	<1.71 BTU/hr	<1.71 BTU/hr
Off	<1.02 BTU/hr	<1.02 BTU/hr	<1.02 BTU/hr
Off (AC switch)	0 BTU/hr	0 BTU/hr	0 BTU/hr
On Mode(ECO mode)	22.3W (typ.)		
PowerSensor	8.9W (typ.)		
Power LED indicator	On mode: White, Standby/Sleep mode: White (blinking)		

7.Technical Specifications

Devuer Curerely	
Power supply	Built-In, 100-2407 AC, 50-60H2
Dimensions	
Product with stand (WxHxD)	614 x 548 x 257 mm
Product without stand (WxHxD)	614 x 372 x 56 mm
Product with packaging (WxHxD)	690 x 458 x 252 mm
Weight	
Product with stand	7.861 kg
Product without stand	5.438 kg
Product with packaging	10.615 kg
Operating Condition	
Temperature range (operation)	0°C to 40 ℃
Relative humidity (operation)	20% to 80%
Atmospheric pressure (operation)	700 to 1060hPa
Temperature range (Non-operation)	-20°C to 60°C
Relative humidity (Non-operation)	10% to 90%
Atmospheric pressure (Non-operation)	500 to 1060hPa
Environmental and energy	
ROHS	YES
EPEAT	YES ( <u>Refer to note 1 for more details</u> )
Packaging	100% recyclable
Specific Substances	100% PVC BFR free housing
EnergyStar	YES
Compliance and standards	
Regulatory Approvals	CE Mark, FCC Class B, SEMKO, cETLus, CU- EAC, TCO Edge,TUV-GS,TUV-ERGO, EPA, WEEE, UKRAINIAN,ICES-003, CCC, CECP(272B7QPJEB) CE Mark, FCC Class B, SEMKO, cETLus, CU- EAC, TCO Edge,TUV-GS,TUV-ERGO, EPA, WEEE, UKRAINIAN,ICES-003(272B7QPTKEB)
Cabinet	
Color	Silver/Black
Finish	Texture

### Note

- 1. EPEAT Gold or Silver is valid only where Philips registers the product. Please visit <u>www.epeat.net</u> for registration status in your country.
- 2. This data is subject to change without notice. Go to <u>www.philips.com/support</u> to download the latest version of leaflet.
- 3. Smart response time is the optimum value from either GtG or GtG (BW) tests.

### 7.1 Resolution & Preset Modes

### Maximum Resolution

1920 x 1080 @ 60 Hz (analog input) 2560 x 1440 @ 60 Hz (digital input)

### 2 Recommended Resolution

2560 x 1440 @ 60 Hz (digital input)

H. freq (kHz)	Resolution	V. freq (Hz)
31.47	720 x 400	70.09
31.47	640 x 480	59.94
35.00	640 x 480	66.67
37.86	640 x 480	72.81
37.50	640 x 480	75.00
35.16	800 x 600	56.25
37.88	800 x 600	60.32
46.88	800 x 600	75.00
48.08	800 x 600	72.19
47.73	832 x 624	74.55
48.36	1024 x 768	60.00
56.48	1024 x 768	70.07
60.02	1024 x 768	75.03
44.77	1280 x 720	59.86
60	1280 x 960	60
63.89	1280 x 1024	60.02
79.98	1280 x 1024	75.03
55.94	1440 x 900	59.89
65.29	1680 x 1050	59.95
67.50	1920 x 1080	60.00
88.79	2560 x 1440	59.95

### Note

Please notice that your display works best at native resolution of 2560 x 1440 @ 60Hz. For best display quality, please follow this resolution recommendation.

### 8. Power Management

If you have VESA DPM compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. If an input from a keyboard, mouse or other input device is detected, the monitor will 'wake up' automatically. The following table shows the power consumption and signaling of this automatic power saving feature:

### 272B7QPJEB:

Power Management Definition					
VESA Mode	Video	H-sync	V-sync	Power Used	LED Color
Active	ON	Yes	Yes	44W (typ.) 76W (max.)	White
Sleep (Standby)	OFF	No	No	0.5W (typ.)	White (blink)
Switch Off	OFF	-	-	OW (typ.)	OFF

### 272B7QPTKEB:

Power Management Definition					
VESA Mode	Video	H-sync	V-sync	Power Used	LED Color
Active	ON	Yes	Yes	44.60W (typ.) 76W (max.)	White
Sleep (Standby)	OFF	No	No	0.5W (typ.)	White (blink)
Switch Off	OFF	-	-	OW (typ.)	OFF

The following setup is used to measure power consumption on this monitor.

- Native resolution: 2560 × 1440
- Contrast: 50%
- Brightness: 100%

Color temperature: 6500k with full white pattern

### Note

This data is subject to change without notice.

# 9. Customer care and warranty

### 9.1 Philips' Flat Panel Monitors Pixel Defect Policy

Philips strives to deliver the highest quality products. We use some of the industry's most advanced manufacturing processes and practice stringent quality control. However, pixel or sub pixel defects on the TFT Monitor panels used in flat panel monitors are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but Philips guarantees that any monitor with an unacceptable number of defects will be repaired or replaced under warranty. This notice explains the different types of pixel defects and defines acceptable defect levels for each type. In order to gualify for repair or replacement under warranty, the number of pixel defects on a TFT Monitor panel must exceed these acceptable levels. For example, no more than 0.0004% of the sub pixels on a monitor may be defective. Furthermore, Philips sets even higher guality standards for certain types or combinations of pixel defects that are more noticeable than others. This policy is valid worldwide.



### 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.

### Types of Pixel Defects

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

### Bright Dot Defects

Bright dot defects appear as pixels or sub pixels that are always lit or 'on'. That is, a bright dot is a sub-pixel that stands out on the screen when the monitor displays a dark pattern. There are the types of bright dot defects.



One lit red, green or blue sub pixel.



#### Two adjacent lit sub pixels:

- Red + Blue = Purple
- Red + Green = Yellow
- Green + Blue = Cyan (Light Blue)



Three adjacent lit sub pixels (one white pixel).

### Note

À red or blue bright dot must be more than 50 percent brighter than neighboring dots while a green bright dot is 30 percent brighter than neighboring dots.

### Black Dot Defects

Black dot defects appear as pixels or sub pixels that are always dark or 'off'. That is, a dark dot is a sub-pixel that stands out on the screen when the monitor displays a light pattern. These are the types of black dot defects.



### Proximity of Pixel Defects

Because pixel and sub pixels defects of the same type that are near to one another may be more noticeable, Philips also specifies tolerances for the proximity of pixel defects.



### Pixel Defect Tolerances

In order to qualify for repair or replacement due to pixel defects during the warranty period, a TFT Monitor panel in a Philips flat panel monitor must have pixel or sub pixel defects exceeding the tolerances listed in the following tables. 9.Customer care and warranty

BRIGHT DOT DEFECTS	ACCEPTABLE LEVEL	
1 lit subpixel	3	
2 adjacent lit subpixels	1	
3 adjacent lit subpixels (one white pixel)	0	
Distance between two bright dot defects*	>15mm	
Total bright dot defects of all types	3	
BLACK DOT DEFECTS	ACCEPTABLE LEVEL	
1 dark subpixel	5 or fewer	
2 adjacent dark subpixels	2 or fewer	
3 adjacent dark subpixels	0	
Distance between two black dot defects*	>15mm	
Total black dot defects of all types	5 or fewer	
TOTAL DOT DEFECTS	ACCEPTABLE LEVEL	
Total bright or black dot defects of all types	5 or fewer	

### Note

- 1. 1 or 2 adjacent sub pixel defects = 1 dot defect
- 2. This monitor is ISO9241-307 compliant(ISO9241-307: Ergonomic requirement , analysis and compliance test methods for electronic visual displays)
- 3. ISO9241-307 is the successor of formerly known ISO13406 standard, which is withdrawn by the International Organisation for Standardisation (ISO) per: 2008-11-13.

### 9.2 Customer Care & Warranty

For warranty coverage information and additional support requirements valid for your region, please visit www.philips.com/support website for details or contact your local Philips Customer Care Center.

For extended warranty, if you would like to extend your general warranty period, an Out of Warranty service package is offered via our Certified Service Center.

If you wish to make use of this service, please be sure to purchase the service within 30 calendar days of your original purchase date. During the extended warranty period, the service includes pickup, repair and return service, however the user will be responsible for all costs accrued.

If the Certified Service Partner cannot perform the required repairs under the offered extended warranty package, we will find alternative solutions for you, if possible, up to the extended warranty period you have purchased.

Please contact our Philips Customer Service Representative or local contact center (by Consumer care number) for more details.

•	Local Standard Warranty Period	•	Extended Warranty Period	•	Total Warranty Period
•	Depend on different Regions	•	+ 1 Year	•	Local Standard warranty period +1
		•	+ 2 Years	•	Local Standard warranty period +2
		•	+ 3 Years	•	Local Standard warranty period +3

Philips Customer Care Center number listed below.

\*\*Proof of original purchase and extended warranty purchase required.

### Note

Please refer to important information manual for regional service hotline, which is available on the Philips website support page.

# 10. Troubleshooting & FAQs

### 10.1 Troubleshooting

This page deals with problems that can be corrected by a user. If the problem still persists after you have tried these solutions, contact Philips customer service representative.

### 1 Common Problems

### No Picture (Power LED not lit)

- Make sure the power cord is plugged into the power outlet and into the back of the monitor.
- First, ensure that the power button on the front of the monitor is in the OFF position, then press it to the ON position.

### No Picture (Power LED is White)

- Make sure the computer is turned on.
- Make sure the signal cable is properly connected to your computer.
- Make sure the monitor cable has no bent pins on the connect side. If yes, repair or replace the cable.
- The Energy Saving feature may be activated

### Screen says



- Make sure the monitor cable is properly connected to your computer. (Also refer to the Quick Start Guide).
- Check to see if the monitor cable has bent pins.

• Make sure the computer is turned on.

### AUTO button doesn't function

• The auto function is applicable only in VGA-Analog mode. If the result is not satisfactory, you can do manual adjustments via the OSD menu.

### Note

# The Auto Function is not applicable in DVI-Digital mode as it is not necessary.

### Visible signs of smoke or sparks

- Do not perform any troubleshooting steps
- Disconnect the monitor from mains power source immediately for safety
- Contact with Philips customer service representative immediately.

### 2 Imaging Problems

### Image is not centered

- Adjust the image position using the "Auto" function in OSD Main Controls.
- Adjust the image position using the Phase/Clock of Setup in OSD Main Controls. It is valid only in VGA mode.

### Image vibrates on the screen

• Check that the signal cable is properly securely connected to the graphics board or PC.

### Vertical flicker appears

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- Adjust the image using the "Auto" function in OSD Main Controls.
- Eliminate the vertical bars using the Phase/Clock of Setup in OSD Main Controls. It is valid only in VGA mode.

#### 10.Troubleshooting & FAQs

#### Horizontal flicker appears



- Adjust the image using the "Auto" function in OSD Main Controls.
- Eliminate the vertical bars using the Phase/Clock of Setup in OSD Main Controls. It is valid only in VGA mode.

Image appears blurred, indistinct or too dark

• Adjust the contrast and brightness on On-Screen Display.

An "after-image", "burn-in" or "ghost image" remains after the power has been turned off.

- 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. "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in LCD panel technology. In most cases, the "burned in" or "afterimaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.
- Always activate a moving screen saver program when you leave your monitor unattended.
- Always activate a periodic screen refresh application if your LCD monitor will display unchanging static content.
- Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or "after-image" or "ghost image" symptoms that will not disappear and cannot be repaired.

The damage mentioned above is not covered under your warranty.

Image appears distorted. Text is fuzzy or blurred.

 Set the PC's display resolution to the same mode as monitor's recommended screen native resolution.

# Green, red, blue, dark, and white dots appears on the screen

 The remaining dots are normal characteristic of the liquid crystal used in today's technology, Please refer the pixel policy for more detail.

# \* The "power on" light is too strong and is disturbing

 You can adjust "power on" light using the power LED Setup in OSD main Controls.

For further assistance, refer to the Consumer Information Centers list and contact Philips customer service representative.

\* Functionality different according to display.

### 10.2 General FAQs

- Q1: When I install my monitor what should I do if the screen shows 'Cannot display this video mode'?
- Ans.: Recommended resolution for this monitor: 2560 x 1440 @ 60 Hz.
- Unplug all cables, then connect your PC to the monitor that you used previously.
- In the Windows Start Menu, select Settings/Control Panel. In the Control Panel Window, select the Display icon. Inside the Display Control Panel, select the 'Settings' tab. Under the setting tab, in box

#### 10.Troubleshooting & FAQs

labelled 'desktop area', move the sidebar to 2560 x 1440 pixels.

- Open 'Advanced Properties' and set the Refresh Rate to 60 Hz, then click OK.
- Restart your computer and repeat step 2 and 3 to verify that your PC is set at 2560 x 1440 @ 60 Hz.
- Shut down your computer, disconnect your old monitor and reconnect your Philips LCD monitor.
- Turn on your monitor and then turn on your PC.
- Q2: What is the recommended refresh rate for LCD monitor?
- Ans.: Recommended refresh rate in LCD monitors is 60 Hz, In case of any disturbance on screen, you can set it up to 75 Hz to see if that removes the disturbance.
- Q3: What are the .inf and .icm files on the user manual? How do I install the drivers (.inf and .icm)?
- Ans.: These are the driver files for your monitor. Follow the instructions in your user manual to install the drivers. Your computer may ask you for monitor drivers (.inf and .icm files) or a driver disk when you first install your monitor.

### Q4: How do I adjust the resolution?

- Ans.: Your video card/graphic driver and monitor together determine the available resolutions. You can select the desired resolution under Windows<sup>®</sup> Control Panel with the "Display properties".
- Q5: What if I get lost when I am making monitor adjustments via OSD?
- Ans.: Simply press the OK button, then select 'Reset' to recall all of the original factory settings.

- Q6: Is the LCD screen resistant to scratches?
- Ans.: In general it is recommended that the panel surface is not subjected to excessive shocks and is protected from sharp or blunt objects. When handling the monitor, make sure that there is no pressure or force applied to the panel surface side. This may affect your warranty conditions.

# Q7: How should I clean the LCD surface?

Ans.: For normal cleaning, use a clean, soft cloth. For extensive cleaning, please use isopropyl alcohol. Do not use other solvents such as ethyl alcohol, ethanol, acetone, hexane, etc.

# Q8: Can I change the color setting of my monitor?

- Ans.: Yes, you can change your color setting through OSD control as the following procedures,
- Press "OK" to show the OSD (On Screen Display) menu
- Press "Down Arrow" to select the option "Color" then press "OK" to enter color setting, there are three settings as below.
  - 1. Color Temperature: The six settings are 5000K, 6500K, 7500K, 8200K, 9300K and 11500K. With settings in the 5000K range the panel appears "warm, with a red-white color tone", while a 11500K temperature yields "cool, bluewhite toning".
  - 2. sRGB: This is a standard setting for ensuring correct exchange of colors between different device (e.g. digital cameras, monitors, printers, scanners, etc).

#### 10.Troubleshooting & FAQs

3. User Define: The user can choose his/her preference color setting by adjusting red, green blue color.

### Note

A measurement of the color of light radiated by an object while it is being heated. This measurement is expressed in terms of absolute scale, (degrees Kelvin). Lower Kevin temperatures such as 2004K are red; higher temperatures such as 9300K are blue. Neutral temperature is white, at 6504K.

- Q9: Can I connect my LCD monitor to any PC, workstation or Mac?
- Ans.: Yes. All Philips LCD monitors are fully compatible with standard PCs, Macs and workstations. You may need a cable adapter to connect the monitor to your Mac system. Please contact your Philips sales representative for more information.
- Q10: Are Philips LCD monitors Plugand- Play?
- Ans.: Yes, the monitors are Plug-and-Play compatible with Windows 10/8.1/8/7, Mac OSX
- Q11: What is Image Sticking, or Image Burn-in, or After Image, or Ghost Image in LCD panels?
- Ans.: 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. "Burn-in", "afterimaging", or "ghost imaging" is a well-known phenomenon in LCD panel technology. In most cases, the "burned in" or "atter-

imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.

Always activate a moving screen saver program when you leave your monitor unattended. Always activate a periodic screen refresh application if your LCD monitor will display unchanging static content.

### Warning

Failure to activate a screen saver, or a periodic screen refresh application may result in severe "burn-in" or "afterimage" or "ghost image" symptoms that will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

- Q12: Why is my Display not showing sharp text, and is displaying jagged characters?
- Ans.: Your LCD monitor works best at its native resolution of 2560 x 1440 @ 60 Hz. For best display, please use this resolution.
- Q13: How to unlock/lock my hot key?
- Ans.: Please press ■/OK for 10 seconds to unlock/lock the hot key, by doing so, your monitor pops out "Attention" to show the unlock/lock status as shown below illustrators.

Monitor controls unlocked

Monitor controls locked



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