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1. For your safety

Before operating the monitor, please read this manual thoroughly. This manual should be retained for future reference.

FCC Class B Radio Frequency Interference Statement

WARNING: (FOR FCC CERTIFIED MODELS)

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

- The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
- 3. The manufacturer is not responsible for any radio or TV interference caused

by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

WARNING:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

1.1 Precautions

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable cart, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a cart or stand recommended by the manufacturer or sold with the monitor.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a threepronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to

1. For your safety

ground the appliance safely. Do not defeat the safety purpose of the grounded plug.

- Unplug the unit during a lightening storm or when it will not be used for long period of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor by yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter (Output 19Vdc) which have UL, CSA listed licensed (only for monitor with power adapter).
 Manufacturers: SHENZHEN HONOR ELECTRONICS CO., LTD. / model: ADS-65LSI-19-1 19065G

1.2 Cleaning

- Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.
- When cleaning, make sure no detergent is leaked into the product. The cleaning cloth should not be too rough as it will scratch the screen surface.
- Please disconnect the power cord before cleaning the product.

1.3 Special notes on LCD monitors

The following symptoms are normal with LCD monitor and do not indicate a problem.

Note

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image when the same image has been displayed for a long time. The monitor will slowly recover from this.
- When the screen becomes black or flashing, or cannot illuminate any more, contact your dealer or service center to replace parts. Don't repair the screen by yourself!

2. Setting up the monitor

2.1 Installation

Package contents













Note

- Use only the AC/DC adapter provided by Philips.
- Do not install the monitor in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, or excessive dust or mechanical vibration or shock.
- Save the original shipping carton and packing materials, as they will come in handy if you ever have to ship your monitor.
- For maximum protection, repackage your monitor as it was originally packed at the factory.
- To keep the monitor looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild

detergent solution. Never use strong solvents such as thinner, benzene, or abrasive cleaners, since these will damage the cabinet. As a safety precaution, always unplug the monitor before cleaning it.

- Do not scratch the screen with hard things, it may cause permanent damage.
- Don't leak liquid into monitor which will result in the damage of component.

2 Connection



- 1 AC/DC Power Input
- 2 HDMI Input
- 3 VGA Input
- 4 Audio Output
- 5 Audio Input
- 6 RJ-45
- 7 USB Uptream
- 8 USB Downstream
- 9 SDHC Card Slot
- 10 Kensington Anti-theft Lock

Connect to PC for VGA or HDMI input

- 1. Connect the signal cable from your PC to SmartMonitor.
- 2. Connect power cord to SmartMonitor firmly and press the power on.
- 3. The SmartMonitor turns on and enters the previous source input selected.
- 4. Press the input button to select VGA or HDMI source

Connect to either WiFi or Ethernet for SmartMonitor input

- Connect your WiFi through WiFi dongle bundled or connect RJ-45 LAN cable to your LAN port.
- 2. Connect power cord to SmartMonitor firmly and press the power on.
- 3. The SmartMonitor turns on and enters the previous source input. selected
- 4. Press the input button to select SmartMonitor source.

3 Adjusting view angle

For optimal viewing, it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.

The monitor's tilted angle is adjustable to 20° or 62°.





Solution Note

- Do not touch the LCD screen when you adjust the angle. It may cause damage or break the LCD screen.
- Careful attention is required not to catch your fingers or hands when you adjust the angle.
- Tilted angle equal or over 20° is recommended with a fixed point to lock the stand.
- Do not adjust the tilt angle less than 20°. The monitor may fall caused by the instability.

2.2 Operating the monitor

SmartMonitor allows you to either use it as a stand-alone SmartMonitor under Android system without any PC connection required, or as a normal PC monitor connecting with PC.

By selecting the buttons on the front bezel, you can choose the mode you want to use.

1 Front control



0	ወ	Switch monitor's power ON or OFF.
2	Ð	Select the input source: SmartMonitor,VGA, HDMI.
8		Adjust the OSD menu.
4	Ø	Hotkey for: SmartImage, SmartSound, and Volume control.
6	Ξ	MENU button for SmartMonitor.
	Þ	BACK button for SmartMonitor.
•		Return to previous OSD level.
	A	HOME button for SmartMonitor.
0		Access the OSD menu for VGA and HDMI. Confirm the OSD adjustment for VGA and HDMI.

2 Description of the On Screen Display

What is On-Screen Display (OSD)?

On-Screen Display (OSD) is a feature in all Philips LCD monitors. It allows user to adjust screen performance or select functions of the monitors directly through an on-screen instruction window. A user-friendly on screen display interface is shown below:

Picture	Picture Mode	Off
2	Screen Mode	Auto
Audio	Aspect Ratio	Full
	Color Temp	6500K
Catur	Smart Contrast	Off
	PC Setting	•
VA : Move	😑 : Enter	 Quit

The OSD Menu

Below is an overall view of the OSD structure for your reference to work your way around the different adjustments later on.



3 Resolution notification

This monitor is designed for optimal performance at its native resolution, 1920×1080@60Hz. When the monitor is powered on at a different resolution, an alert is displayed on screen: Use 1920×1080@60Hz for best results.

Display of the native resolution alert can be switched off from Setup in the OSD (On Screen Display) menu.

2.3 SmartMonitor Operation

Philips SmartMonitor bundles with Android system which applies touch panel technology for users to use it as a stand-along PC. It does not require any PC connections and can be controlled with figures – touching the panel for selection and confirmation.

- 1. Press the input source button € to select the operating mode for SmartMonitor,VGA, or HDMI.
- 2. Press ▼ or ▲ button to select SmartMonitor, and then press 🗏 button to confirm.
- 3. Then you may adjust the setting and enjoy a variety of applications by touching and controlling the panel of SmartMonitor.

The desktop of Android system is shown below:



A. The shortcut for Google Search: Tap this icon to enter Google Search website directly and start for Web search.

B. Weather information bulletin board:

Tap this icon to show your local weather information currently and in the following three days. In the nexe screen, you can tap for the information of your desired region on the map. The whether information will be updated instantly.

C. Frequently used application:

Whenever the application program is used, these icons appear on the bottom indicate which programs are being used frequently. These icons provide an easy way to access your favorite functions again.

D. Local Date/Time:

Your local date and time information is shown here. The date and time can be set up through the SETTING menu icon in the Application Gallery.

E. Application Gallery:

All the default preloading application programs are shown on the first page of Application Gallery. Any further downloaded programs will be added. You can easily tap the screen to look for your Apps.

Internet connection

The Android application programs require an Internet connection. SmartMonitor provides three most common options to link your Internet connections.

1. Wireless Internet:

Plug the USB WiFi dongle to one of the USB ports at the side IO of the SmartMonitor. Setup the Wireless Internet in the SETTING menu.

2. Ethernet Connection:

Connect with your Ethernet to the RJ-45 port at the down IO of the SmartMonitor. Setup the Ethernet in the SETTING menu.

3. Broadband Connection:

Connect with your Broadband Internet to the RJ-45 port at the down IO of the SmartMonitor. Setup the Broadband Internet in the SETTING menu.

Volume control

- 1. Press hotkey 🗇 to launch the SmartImage OSD.
- 2. Keep pressing 🗹 to select Volume.



 The SmartImage OSD will remain on screen for 5 seconds, or you can also press
 button to confirm.

Except using O key to scroll down, you can also press $\checkmark \blacktriangle$ buttons to choose and press O to confirm selection and close the SmartImage OSD.

Press \checkmark **a** buttons to set the volume.



2.4 SmartMonitor Setting Adjustments

When the SmartMonitor function is used, all the system settings can be adjusted by system setting icon.The main adjustment items are as below:

Main Menu	Sub Menu Item	Description		
Wireless	Wi-Fi	Switch On/Off Wi-Fi		
internet	Wi-Fi Setting	Scan and connect to the available Wi-Fi internet.		
Ethernet	Ethernet	Switch On/Off Ethernet		
setting	Ethernet setting	Select and connect to the available Ethernet.		
Broadband setting		Type in the account and password information to enable Broadband internet		
Display	Animation	Display the animation when the screen is turned on or off		
Security	Safety security	Disable safety security function		
	Password setting	Change and set password		
	Clean the storing space	Delete password		
Application Program	Un-known resource	Non-Android Market application program		
	Application	Manager and remove		
	manager	current loaded program		
	Current service	View and manager current program		
Privacy setting	Reset to factory setting	Clean all the data		
SD card	Storing space information	Showing the storing space on SD card		
Language and Key board	Language selection	Language display selection and setting		
Date and Time	Automatically	The internet data is used after clicking the option		
	Date setting	Set the date		
	Time zone selection	Time zone for current region		
	Time selection	Set the time		
	24hr format	Set the time format to 24hr		
	Date format selection	Select the preference date format		
Information	Law information, Android version, Version number	Display the information for the monitor		

3. Image Optimization

1 What is it?

SmartImage provides presets that optimize display for different types of content, dynamically adjusting brightness, contrast, color and sharpness in real time. Whether you're working with text applications, displaying images or watching a video, Philips SmartImage delivers great optimized monitor performance.

2 Why do I need it?

You want a monitor that delivers optimized display all your favorite types of content, SmartImage software dynamically adjust brightness, contrast, color and sharpness in real time to enhance your monitor viewing experience.

3 How does it work?

SmartImage is an exclusive, leading edge Philips technology that analyzes the content displayed on your screen. Based on a scenario you select, SmartImage dynamically enhances the contrast, color saturation and sharpness of images to enhance the contents being displayed - all in real time with the press of a single button.

3.1 SmartImage



- 1. Press hotkey 🖾 to launch the SmartImage OSD.
- 2. Keep pressing 🖾 to select SmartImage.



- The SmartImage OSD will remain on screen for 5 seconds, or you can also press
 button to confirm.
- 4. When SmartImage is enabled, the sRGB scheme is disabled automatically. To use sRGB, you need to disable SmartImage with the 2 button at the front bezel of your monitor.

Except using () key to scroll down, you can also press \checkmark buttons to choose and press () to confirm selection and close the SmartImage OSD.

There are six modes to select: Office, Photo, Movie, Game, Economy and Off.



3. Image Optimization

- Office: Enhances text and dampens brightness to increase readability and reduce eye strain. This mode significantly enhances readability and productivity when you're working with spreadsheets, PDF files, scanned articles or other general office applications.
- Photo: This profile combines color saturation, dynamic contrast and sharpness enhancement to display photos and other images with outstanding clarity in vibrant colors - all without artifacts and faded colors.
- Movie: Ramped up luminance, deepened color saturation, dynamic contrast and razor sharpness displays every details in darker areas of your videos without color washout in brighter areas maintaining a dynamic natural values for the ultimate video display.
- Game: Turn on over drive circuit for best response time, reduce jaggy edges for fast moving objects on screen, enhance contrast ratio for bright and dark scheme, this profile delivers the best gaming experience for gamers.
- Economy: Under this profile, brightness, contrast are adjusted and backlighting finetuned for just right display of everyday office applications and lower power consumption.
- Off: No optimization by SmartImage.

3.2 SmartSound

- Press hotkey 2 to launch the SmartPicture OSD.
- 2. Keep pressing D to select **SmartSound**.



 The SmartImage OSD will remain on screen for 5 seconds, or you can also press
 button to confirm.

Except using O key to scroll down, you can also press $\checkmark \blacktriangle$ buttons to choose and press O to confirm selection and close the SmartImage OSD.

There are four modes to select: **Dynamic**, **Standard**, **Soft**, and **User**.



4. Technical Specifications

Picture/Display	
LCD panel type	TFT-LCD
Backlight type	W-LED system
Panel Size	21.5 inch / 54.6 cm
Multi-touch optical panel	2 points
Effective viewing area (mm)	495.6 (H) × 292.2 (V)
Aspect ratio	16:9
Optimum resolution	Android: 1280 x 720, PC: 1920 x 1080 @ 60 Hz
Response time (typical)	5 ms
Brightness	250 cd/m ²
Viewing angle	170° (H) / 160° (V), @ C/R > 10
Picture enhancement	SmartImage
Display colors	16.7 M
Sound	
Built-in Audio	2.0W × 2
Sound Enhancement	SmartSound
Video/Audio Playback	
Video format	MPEG4, H.264, WMV, MKV, TS
Audio format	MPEG1, MPEG2, MP3, WMA, WAV, Ogg Vorbis, AAC
Photo format	JPEG, BMP, PNG, GIF
Storage Media	
Storage rilectia	
Built-in memory capacity	1GB DDR3, 1GB Nand Flash
Built-in memory capacity Connectivity	1GB DDR3, 1GB Nand Flash
Built-in memory capacity Connectivity USB	1GB DDR3, 1GB Nand Flash USB 2.0 × 4
Built-in memory capacity Connectivity USB Signal Input	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45
Built-in memory capacity Connectivity USB Signal Input SD/MMC card	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled)
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802,11b/g/n (WiFi dongle bundled)
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages Other convenience	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese Kensington lock, VESA mount (100 × 100 mm)
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages Other convenience Plug & Play Compatibility	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese Kensington lock, VESA mount (100 × 100 mm) DDC/CI, Mac OS X, sRGB, Windows 7, Windows XP
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages Other convenience Plug & Play Compatibility Stand	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese Kensington lock, VESA mount (100 × 100 mm) DDC/CI, Mac OS X, sRGB, Windows 7, Windows XP
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages Other convenience Plug & Play Compatibility Stand Tilt	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese Kensington lock,VESA mount (100 × 100 mm) DDC/CI, Mac OS X, sRGB, Windows 7, Windows XP 20 ~ 62 degree
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages Other convenience Plug & Play Compatibility Stand Tilt Power	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese Kensington lock, VESA mount (100 × 100 mm) DDC/CI, Mac OS X, sRGB, Windows 7, Windows XP 20 ~ 62 degree
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages Other convenience Plug & Play Compatibility Stand Tilt Power On mode	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802,11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese Kensington lock, VESA mount (100 × 100 mm) DDC/CI, Mac OS X, sRGB, Windows 7, Windows XP 20 ~ 62 degree 24.1 W (typ.), 42.67 W(max.)
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages Other convenience Plug & Play Compatibility Stand Tilt Power On mode Standby mode	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese Kensington lock, VESA mount (100 × 100 mm) DDC/CI, Mac OS X, sRGB, Windows 7, Windows XP 20 ~ 62 degree 24.1 W (typ.), 42.67 W(max.) 0.5 W (typ.)
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages Other convenience Plug & Play Compatibility Stand Tilt Power On mode Standby mode Off mode	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese Kensington lock, VESA mount (100 × 100 mm) DDC/CI, Mac OS X, sRGB, Windows 7, Windows XP 20 ~ 62 degree 24.1 W (typ.), 42.67 W(max.) 0.5 W (typ.)
Built-in memory capacity Connectivity USB Signal Input SD/MMC card Wireless connections Audio In/Out Convenience User convenience OSD Languages Other convenience Plug & Play Compatibility Stand Tilt Power On mode Standby mode Off mode Power LED indicator	1GB DDR3, 1GB Nand Flash USB 2.0 × 4 VGA (Analog), HDMI, RJ-45 SDHC card slot (8GB card bundled) 802.11b/g/n (WiFi dongle bundled) PC audio-in, Headphone jack Home/Menu, Back/Back, Input, Menu/Up, Power, SmartImage/Down English, Simplified Chinese Kensington lock,VESA mount (100 × 100 mm) DDC/CI, Mac OS X, sRGB, Windows 7, Windows XP 20 ~ 62 degree 24.1 W (typ.), 42.67 W(max.) 0.5 W (typ.) 0.5 W (typ.) Operation - White, Standby mode- White (blinking)

4. Technical Specifications

Dimensions	
Product with stand (mm)	551 x 330 x 54 mm
Packaging in mm (WxHxD)	602 x 408 x 130 mm
Weight	
Product with stand (kg)	4.17 kg
Product with packaging (kg)	5.39 kg
Operating conditions	
Temperature range (operation)	0°C to 40°C
Temperature Range (storage)	-20°C to 60°C
Relative humidity	20% - 80%
MTBF	30,000 hour(s)
Sustainability	
Environmental and energy	EPEAT Silver, RoHS, Lead-free, Mercury Free
Recyclable packaging material	100 %
Compliance and standards	
Regulatory Approvals	CCC, CECP, CEL
Cabinet	
Color	Black
Finish	Glossy

4.1 Resolution & Preset PC Modes

1 Maximum Resolution

1920×1080@60Hz (analog input) 1920×1080@60Hz (digital input)

2 Recommended Resolution

1920×1080@60Hz (digital input)

H. freq (kHz)	Resolution	V. freq (Hz)
31.47	720×400	70.09
31.47	640×480	59.94
35.00	640×480	66.67
37.86	640×480	72.81
37.50	640×480	75.00
37.88	800×600	60.32
46.88	800×600	75.00
48.36	1024×768	60.00
60.02	1024×768	75.03
63.89	1280×1024	60.02
79.98	1280×1024	75.03
55.94	1440×900	59.89
70.64	1440×900	74.98
65.29	1680×1050	59.95
67.50	1920×1080	60.00

Please notice that your display works best at native resolution of 1920×1080@60Hz. For best display quality, please follow this resolution recommendation.

5. 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:

Power Management Definition						
VESA Mode	Video	H-sync	V-sync	Power Used	LED Color	
Active	ON	Yes	Yes	24.1 W (typ.) 42.67 W(max.)	White	
Sleep	OFF No No 0.5 W (typ.) (bi		White (blink)			
Switch Off	OFF	-	-	0.5 W (typ.)	OFF	

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

- Native resolution: 1920x1080
- Contrast: 50%
- Brightness: 250 nits
- Color temperature: 6500k with full white pattern

Solution Note

This data is subject to change without notice.

6. Regulatory Information

Energy Star Declaration

(www.energystar.gov)



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

Solution Note

We recommend you switch off the monitor when it is not in use for a long time.

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



However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only RF shielded cable that was supplied with the monitor when connecting this monitor to a computer device.

To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

FCC Declaration of Conformity

Declaration of Conformity for Products Marked with FCC Logo,

United States Only



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.

Commission Federale de la Communication (FCC Declaration)

Cet équipement a été testé et déclaré conforme auxlimites des appareils numériques de class B,aux termes de l'article 15 Des règles de la FCC. Ces limites sont conçues de façon à fourir une protection raisonnable contre les interférences nuisibles dans le cadre d'une installation résidentielle.

CET appareil produit, utilise et peut émettre des hyperfréquences qui, si l'appareil n'est pas installé et utilisé selon les consignes données, peuvent causer des interférences nuisibles aux communications radio.

6. Regulatory Infomation

Cependant, rien ne peut garantir l'absence d'interférences dans le cadre d'une installation particulière. Si cet appareil est la cause d'interférences nuisibles pour la réception des signaux de radio ou de télévision, ce qui peut être décelé en fermant l'équipement, puis en le remettant en fonction, l'utilisateur pourrait essayer de corriger la situation en prenant les mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur un autre circuit que celui utilisé par le récepteur.
- Demander l'aide du marchand ou d'un technicien chevronné en radio/télévision.
- Toutes modifications n'ayant pas reçu l'approbation des services compétents en matière de conformité est susceptible d'interdire à l'utilisateur l'usage du présent équipement.

N'utiliser que des câbles RF armés pour les connections avec des ordinateurs ou périphériques.

CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.

China RoHS

The People's Republic of China released a regulation called "Management Methods for Controlling Pollution by Electronic Information Products" or commonly referred to as China RoHS. All products produced and sold for China market have to meet China RoHS request.

中国电子信息产品污染控制标识要求(中国 RoHS法规标示要求)产品中有毒有害物质或 元素的名称及含量

	有毒有害物质或元素					
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
外壳	0	0	0	0	0	0
液晶显示屏/灯管	×	0	0	0	0	0
电路板组件"	×	0	0	0	0	0
电源适配线	×	0	0	0	0	0
电源线/连接线	×	0	0	0	0	0

- *: 电路板组件包括印刷电路板及其构成的零部件,如电阻、电容、集成电路、连接器等。
- O:表示该有毒有害物质在该部件所有均质材料中的含量均在《电子信息产品 中有毒有害物质的限量要求标准》规定的限量要求以下。
- X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出《电子信息产品中有毒有害物质的限量要求标准》规定的限量要求;但是上表中打 "X"的部件,符合欧盟RoHS法规要求(属于豁免的部分)。



此标识指期限(十年),电子信息产品中含有的有 毒有害物质或元素在正常使用的条件下不会发生 外泄或突变,电子信息产品用户使用该电子信息 产品不会对环境造成严重污染或对其人身、财产 造成严重损害的期限。

中国能源效率标识

根据中国大陆《能源效率标识管理办法》本显示器符合以下要求:

能源效率(cd/W)	> 1.05
能效等级	1级
能效标准	GB 21520-2008

详细有关信息请查阅中国能效标识网:<u>http://www.energylabel.gov.cn/</u>

《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。

7. Customer care and warranty

7.1 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 qualify 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 quality 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

A 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.

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, Class-I 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.

7.2 Customer Care & Warranty

For warranty coverage information and additional support requirement valid for your region, please visit www.philips.com/support website for details. You may also contact your local Philips Customer Care Center number listed below.

Contact Information	for WESTERN EUROPE region:
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Country	ASC	Consumer care number	Price
Germany	Siemens I&S	+49 01803 386 853	€ 0.09
United Kingdom	Invec Scotland	+44 0207 949 0069	Local call tariff
Ireland	Invec Scotland	+353 01 601 1161	Local call tariff
Spain	Eatsa Spain	+34 902 888 785	€ 0.10
Finland	A-novo	+358 09 2290 1908	Local call tariff
France	A-novo	+33 082161 1658	€ 0.09
Greece	Allman Hellas	+30 00800 3122 1223	Free of charge
Italy	A-novo	+39 840 320 041	€ 0.08
Netherlands	E Care	+31 0900 0400 063	€ 0.10
Denmark	A-novo	+45 3525 8761	Local call tariff
Norway	A-novo	+47 2270 8250	Local call tariff
Sweden A-novo		+46 08 632 0016	Local call tariff
Poland	Zolter	+48 0223491505	Local call tariff
Austria	Siemens I&S	+43 0810 000206	€ 0.07
Belgium	E Care	+32 078 250851	€ 0.06
Luxembourg	E Care	+352 26 84 30 00	Local call tariff
Portugal	Eatsa Spain	+351 2 1359 1440	Local call tariff
Switzerland	A-novo	+41 02 2310 2116 Local call tariff	

Contact Information for CENTRAL AND EASTERN EUROPE region:

Country	Call center	ASC	Consumer care number
Belarus	NA	IBA	+375 17 217 3386
Bulgaria	NA	LAN Service	+359 2 960 2360
Croatia	NA	Renoprom	+385 1 333 0974
Estonia	NA	FUJITSU	+372 6519900
Latvia	NA	"ServiceNet LV" Ltd.	+371 7460399
Lithuania	NA	UAB "Servicenet"	+370 7400088
Romania	NA	Blue Ridge Intl.	+40 21 2101969
Serbia & Montenegro	NA	Kim Tec d.o.o.	+381 11 20 70 684
Slovenia	NA	PC H.and	+386 1 530 08 24
Liliumino	NA	Comel	+380 562320045
OKIAINE	NA	Topaz-Service Company	+38 044 245 73 31
Puccia	NA	CPS	+7 (495) 645 6746 (for repair)
NUSSIA	NA	CEEE Partners	+7 (495) 645 3010 (for sales)
Slovakia	NA	Datalan Service	+421 2 49207155
Turkey	NA	Techpro	+90 212 444 4 832
Czech Rep.	NA	Asupport	800 100 697
Hungany	NA	Serware	+36 1 2426331
i lungar y	NA	Profi Service	+36 1 814 8080

Contact Information for LATIN AMERICA region:

Country	Call center	Consumer care number
Brazil	Vermoent	0800-7254101
Argentina		0800 3330 856

Contact Information for China:

China

Consumer care number : 4008 800 008

Contact Information for NORTH AMERICA :

Country	Call center	ASC	Consumer care number
U.S.A.	TOS	Teleplan	(877) 835-1838
Canada	Supercom	Supercom	(800)479-6696

Contact Information for APMEA region:

Country	Call center	ASC	Consumer care number
Australia	NA	AGOS NETWORK PTY LTD	1300 360 386
New Zealand	NA	Visual Group Ltd.	0800 657447
Hong Kong / Macau	NA	Smart Pixels Technology Ltd.	Hong Kong:Tel: +852 2619 9639 Macau:Tel: (853)-0800-987
India	NA	REDINGTON INDIA LTD	Tel: 1 800 425 6396 SMS: PHILIPS to 56677
Indonesia	NA	PT. Gadingsari elektronika Prima	Tel: 62 21 75909053, 75909056, 7511530
South Korea	NA	PCS One Korea Ltd.	080-600-6600
Malaysia	NA	After Market Solutions (CE) Sdn Bhd	603 7953 3370
Pakistan	NA	Philips Consumer Service	(9221) 2737411-16
Singapore	NA	Philips Electronics Singapore Pte Ltd (Philips Consumer Care Center)	(65) 6882 3999
Taiwan	PCCW Teleservices Taiwan	FETEC.CO	0800-231-099
Thailand	NA	Axis Computer System Co., Ltd.	(662) 934-5498
South Africa	NA	Sylvara Technologies Pty Ltd	086 0000 888
United Arab Emirates	NA	AL SHAHD COMPUTER L.L.C	00971 4 2276525
Israel	NA	Eastronics LTD	1-800-567000
Vietnam	NA	FPT Service Informatic Company Ltd.	+84 8 38248007 Ho Chi Minh City +84 5113.562666 Danang City +84 5113.562666 Can tho Province
Philippines	NA	Glee Electronics, Inc.	(02) 633-4533 to 34, (02) 637-6559 to 60
Sri Lanka	NA	no distributor and/or service provider currently	
Bangladesh	NA	Distributor: Computer Source Ltd (warranty buy-out)	880-2-9141747, 9127592 880-2-8128848 / 52
Nepal	NA	Distributor: Syakar Co. Ltd (warranty buy-out)	977-1-4222395
Cambodia	NA	Distributor: Neat Technology Pte Ltd (Singapore) (warranty buy-out)	855-023-999992

8. Troubleshooting & FAQs

8.1 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.

Horizontal flicker appears

N

• Adjust the image using the "Auto" function in OSD Main Controls.

8. Troubleshooting & FAQs

• 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. "Burnin", "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.
- 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.

8.2 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: 1920x1080@60Hz.
- 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 labelled 'desktop area', move the sidebar to 1920x1080 pixels.
- Open 'Advanced Properties' and set the Refresh Rate to 60Hz, then click OK.
- Restart your computer and repeat step 2 and 3 to verify that your PC is set at 1920x1080@60Hz.
- 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 60Hz, In case of any disturbance on screen, you can set it up to 75Hz to see if that removes the disturbance.

Q3: What are the .inf and .icm files on the CD-ROM? 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. Follow the instructions to insert the (companion CD-ROM) included in this package. Monitor drivers (.inf and .icm files) will be installed automatically.

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® 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.
 - Color Temperature; With settings in the 6500K range the panel appears "warm, with a red-white color tone", while a 9300K 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)
 - User Define; the user can choose his/ her preference color setting by adjusting red, green blue color.

Solution 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. 8. Troubleshooting & FAQs

- Q10: Are Philips LCD monitors Plug-and-Play?
- Ans.: Yes, the monitors are Plug-and-Play compatible with Windows 7/Vista/XP/ NT, Mac OSX, Linux
- Q11: What is Image Sticking, or Image Burnin, 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", "after-imaging", 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 "after-image" 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 1920×1080@60Hz. For best display, please use this resolution.
- 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.



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