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Full HD LCD monitor

- V Line 22 (21.5" / 54.6 cm diag.) Full HD (1920 x 1080)

223V7OHAB/89

# Vivid, crisp images, from edge-to-edge

A perfect all around display with stunning images that stretch from edge-to edge, made easy on the eyes, in a compact slim design.

# **Benefits**

# Vivid pictures every time

- IPS LED wide view technology for image and color accuracy
- 16:9 Full HD display for crisp detailed images
- Narrow border display for a seamless appearance
- SmartContrast for rich black details
- SmartImage presets for easy optimized image settings

## Easy on the eyes

- · Less eye fatigue with Flicker-free technology
- · LowBlue Mode for easy on-the-eyes productivity

· EasyRead mode for a paper-like reading experience

# Experience true multimedia

- Built-in speakers for audio without desktop clutter
- HDMI-ready for Full HD entertainment

# Perfectly designed for your space

• VESA mount allows for flexibility



## Features

## **IPS** technology



IPS displays use an advanced technology which gives you extra wide viewing angles of 178/178 degree, making it possible to view the display from almost any angle. Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colors, making it ideal not only for Photos, movies and web browsing, but also for professional applications which demand color accuracy and consistent brightness at all times.

#### 16:9 Full HD display



Picture quality matters. Regular displays deliver quality, but you expect more. This display features enhanced Full HD 1920 x 1080 resolution. With Full HD for crisp detail paired with high brightness, incredible contrast and realistic colors expect a true to life picture.

#### UltraNarrow Border



The new Philips displays feature ultra-narrow borders which allow for minimal distractions and maximum viewing size. Especially suited for multi-display or tiling setup like gaming, graphic design and professional applications, the ultra-narrow border display gives you the feeling of using one large display.

#### SmartContrast



SmartContrast is a Philips technology that analyzes the contents you are displaying, automatically adjusting colors and controlling backlight intensity to dynamically enhance contrast for the best digital images and videos or when playing games where dark hues are displayed. When Economy mode is selected, contrast is adjusted and backlighting fine-tuned for just-right display of everyday office applications and lower power consumption.

#### SmartImage



SmartImage is an exclusive leading edge Philips technology that analyzes the content displayed on your screen and gives you optimized display performance. This user friendly interface allows you to select various modes like Office, Photo, Movie, Game, Economy etc., to fit the application in use. Based on the selection, SmartImage dynamically optimizes the contrast, color saturation and sharpness of images and videos for ultimate display performance. The Economy mode option offers you major power savings. All in real time with the press of a single button!

#### Flicker-free technology



Due to the way brightness is controlled on LED-backlit screens, some users experience flicker on their screen which causes eye fatigue. Philips Flicker-free Technology applies a new solution to regulate brightness and reduce flicker for more comfortable viewing.

#### LowBlue Mode



Studies have shown that just as ultra-violet rays can cause eye damage, shortwave length blue light rays from LED displays can cause eye damage and affect vision over time. Developed for wellbeing, Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

#### EasyRead mode



#### **Built-in speakers**

A pair of stereo speakers built into a display device. It can be visible front firing, or invisible down firing, top firing, rear firing, etc depending on model and design.

## HDMI Ready



An HDMI-ready device has all the required hardware to accept High-Definition Multimedia Interface (HDMI) input. A HDMI cable enables highquality digital video and audio all transmitted over a single cable from a PC or any number of AV sources (including set-top boxes, DVD players, A/V receivers and video cameras).

# **Specifications**

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### Picture/Display

LCD panel type Backlight type Panel Size Effective viewing area Aspect ratio Optimum resolution **Pixel Density** Response time (typical) Brightness SmartContrast Contrast ratio (typical) Pixel pitch Viewing angle

Flicker-free Display colors Scanning Frequency LowBlue Mode sRGB

#### Connectivity

Signal Input

Sync Input

Audio (In/Out)

Convenience

**Built-in Speakers** User convenience

**OSD** Languages

**IPS** technology W-LED system 21.5 inch / 54.6 cm 476.06 (H) x 267.79 (V) 16:9 1920 x 1080 @ 60 Hz 102 PPI 4 ms (GtG)\*

250 cd/m<sup>2</sup> 10,000,000:1 1000:1

0.248 x 0.248 mm 178° (H) / 178° (V) @ C/R > 10 Yes 16.7 M 30 -83 kHz (H) / 56 -76 Hz (V) Yes Yes

VGA (Analog ) HDMI (digital, HDCP) Separate Sync Sync on Green PC audio-in Headphone out

2W x 2 Power On/Off Menu/OK Volume/Up Input/Down SmartImage/Back Brazil Portuguese Czech Dutch English Finnish French German Greek Hungarian Italian Japanese Korean Polish Portuguese Russian Spanish Simplified Chinese Swedish Turkish Traditional Chinese

Other convenience Plug & Play Compatibility

Kensington lock VESA mount (100x100mm) DDC/CI Mac OS X sRGB Windows 10 / 8.1 / 8 / 7

Ukranian

-5/20 degree

# Stand Tilt

## Power

On mode Standby mode Off mode Power LED indicator Power supply

13.09 W (typ.) (EnergyStar 7.0 test method) 0.5 W (typ.) 0.5 W (typ.) Operation - White Standby mode- White (blinking) Built-in 100-240VAC, 50-60Hz

490 x 368 x 195 mm

490 x 296 x 45 mm

575 x 440 x 113 mm

2.92 kg

2.56 kg

4.23 kg

0°C to 40°C °C

20%-80 %

-20°C to 60°C °C

Operation: +12,000ft (3,658m), Non-

50,000 (Excluded backlight) hour(s)

operation: +40,000ft (12,192m)

#### Dimensions

Product with stand (mm) Product without stand (mm) Packaging in mm (WxHxD)

#### Weight

Product with stand (kg) Product without stand (kg) Product with packaging (kg)

## **Operating conditions**

Temperature range (operation) Temperature range (storage) Relative humidity Altitude

# MTBF

#### Sustainability

Environmental and energy

Recyclable packaging material

EnergyStar 7.0 RoHS Lead-free Mercury Free 100 %

> data subject to change 2019, August 4

## Compliance and standards

Regulatory Approvals

cu semko cETLus TUV/ISO9241-307 WEEE TCO Certified CE Mark FCC Class B ICES-003 RCM

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Version: 3.0.1 EAN: 8712581753054

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2019, August 4

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UKRAINIAN КСС BSMI TUV Cert. - blue light cut-off

Cabinet Color Finish

Black Textured



\* Response time value equal to SmartResponse