PHILIPS

LCD monitor with
Windows Hello Webcam

Business Monitor

B Line

24 (23.8" / 60.5 cm diag.)

1920 x 1080 (Full HD)

242B1H

Clear vision to get more done

This Philips monitor with a secure pop-up webcam with Windows Hello offers a personalized, greater security. Loaded with features to improve productivity and sustainability. Eye comfort features with TUV certified to reduce eye fatigue.

Excellent performance
- IPS technology for full colors and wide viewing angles
- SmartImage presets for easy optimized image settings
- Secure sign-in with pop-up webcam
- Effortlessly smooth action with Adaptive-Sync technology
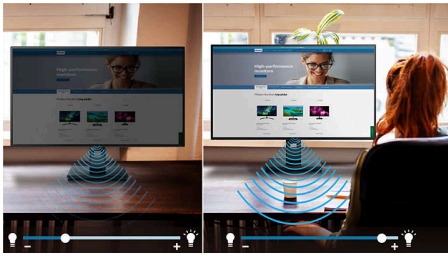
Designed for the way you work
- Built-in stereo speakers for multimedia
- SmartErgoBase enables people-friendly ergonomic adjustments
- Less eye fatigue with Flicker-free technology
- LowBlue Mode for easy on-the-eyes productivity
- EasyRead mode for a paper-like reading experience
- TUV Eye Comfort certified to reduce eye fatigue

Designed for sustainability
- LightSensor for the perfect brightness with minimal power
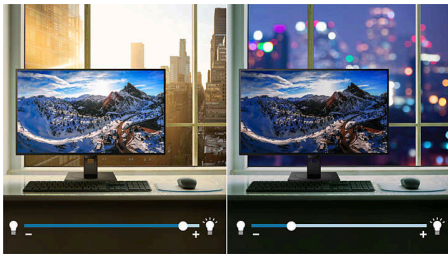- PowerSensor saves up to 70% energy costs
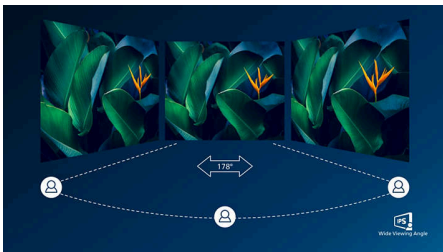
Highlights

PowerSensor

PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if user is present and automatically reduces monitor brightness when user steps away from the desk, cutting energy costs by up to 70 percent and prolonging monitor life.

LightSensor

LightSensor uses a smart sensor to adjust the picture brightness depending on the room light conditions for the perfect picture with minimal power usage.

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 - even in 90 degree Pivot mode! 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.

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!

Adaptive-Sync technology

Gaming shouldn't be a choice between choppy gameplay or broken frames. Get fluid, artifact-free performance at virtually any framerate with Adaptive-Sync technology, smooth quick refresh and ultra-fast response time.

Pop-up webcam

Philips' innovative and secure webcam pops up when you need it and securely tucks back into the monitor when you are not using it. The webcam is also equipped with advanced sensors for Windows Hello facial recognition, which conveniently logs you into your Windows devices in less than 2 seconds, 3 times faster than a password.

TUV Rheinland Eye Comfort

Philips display meet TUV Rheinland Eye Comfort standard to prevent eye strain caused by prolonged computer use. With TUV Eye Comfort certification, Philips displays ensure flicker-free, low blue mode, no disturbing reflections, wide viewing angle and less reduction of image quality from different angles and ergonomic stand designs for ideal viewing experience. Keep your eyes healthy and boost work productivity.

PowerSensor   LightSensor   Wide Viewing Angle   SmartImage™   Adaptive -Sync   Flicker-free   LowBlue Mode

Highlights

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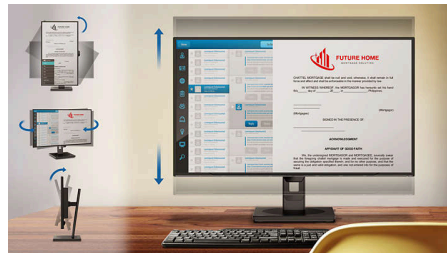 and affect vision over time. Developed for wellbeing, Philips LowBlue Mode setting uses a smart software technology to reduce harmful shortwave blue light.

EasyRead mode

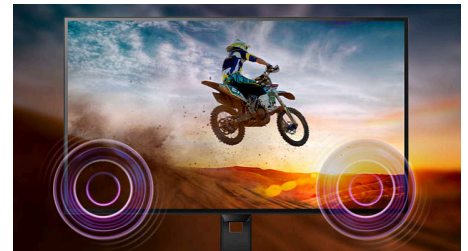EasyRead mode for a paper-like reading experience

SmartErgoBase

The SmartErgoBase is a monitor base that delivers ergonomic display comfort and provides cable management. The base can swivel, tilt and rotate to various angles to ensure maximum comfort. The height adjustable stand guarantees the optimal viewing level, reducing the physical strains of a long workday, while cable management reduces cable clutter and keeps the workspace neat and professional.

Built-in stereo speakers

A pair of high quality 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.

Designed for sustainability

Designed for sustainability, and reduced operating costs, this monitor meets environmental standards. Such as: ENERGY STAR,
EPEAT, TCO Certified. For more information on certification, please visit: ENERGY STAR: https://www.energystar.gov/ EPEAT: https://www.epeat.net/ TCO Certified: https://tcocertified.com/

PowerSensor · LightSensor · Wide Viewing Angle · SmartImage™ · Adaptive -Sync · TÜVRheinland CERTIFIED Eye Comfort www.tuv.com

Specifications

Picture/Display

Panel Size: 23.8 inch / 60.5 cm
Aspect ratio: 16:9
LCD panel type: IPS technology
Backlight type: W-LED system
Pixel pitch: 0.2745 x 0.2745 mm
Brightness: 250 cd/m²
Display colors: 16.7M
Color gamut (typical): NTSC 91%*, sRGB 107%*
Contrast ratio (typical): 1000:1
SmartContrast: 50,000,000:1
Response time (typical): 4 ms (Gray to Gray)*
Viewing angle: 178º (H) / 178º (V), @ C/R > 10
Picture enhancement: SmartImage
Maximum resolution: 1920 x 1080 @ 75Hz*
Effective viewing area: 527.04 (H) x 296.46 (V)
Scanning Frequency: 30 - 85 kHz (H) / 48 - 75 Hz (V)
sRGB
Flicker-free
Pixel Density: 93 PPI
LowBlue Mode
Display Screen Coating: Anti-Glare, 3H, Haze 25%
EasyRead
Adaptive sync

Connectivity

Signal Input: VGA (Analog), DVI-D (digital, HDCP), DisplayPort 1.2, HDMI 1.4 x 1
Sync Input: Separate Sync, Sync on Green
Audio (In/Out): PC audio-in, Headphone out
USB:: USB-B x 1 (upstream), USB 3.2 x 3 (downstream with 1 fast charge B.C 1.2)
HDCP: HDCP 1.4 (DVI/DP/HDMI)

Convenience

Built-in Speakers: 2 W x 2
Plug & Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 11 / 10 / 8.1 / 8 / 7
User convenience: SmartImage, Input, PowerSensor, Menu, Power On/Off
OSD Languages: Brazil Portuguese, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish, Ukrainian
Other convenience: Kensington lock, VESA mount (100x100mm)

Control software: SmartControl
Built-in webcam: Pop-up 2.0 megapixel FHD camera with microphone and LED indictor (for Windows 10 Hello)

Stand

Height adjustment: 150 mm
Pivot: -/+ 90 degree
Swivel: -/+ 180 degree
Tilt: -5 ~ 30 degree

Power

ECO mode: 10.9 W (typ.)
Power supply: Built-in, 100-240VAC, 50-60Hz
Off mode: Zero watts with Zero switch
On mode: 14.5 W (typ.) (EnergyStar test method)
Standby mode: 0.35 W
Power LED indicator: Operation - White, Standby mode- White (blinking)

Dimensions

Packaging in mm (WxHxD): 730 x 450 x 139 mm
Product without stand (mm): 540 x 323 x 51 mm
Packaging in inch (WxHxD): 28.7 x 17.7 x 5.5 inch
Product without stand in inch: 21.3 x 12.7 x 2.0 inch
Product with stand(max height): 540 x 501 x 205 mm
Product with stand(max height): 21.3 x 19.7 x 8.1 inch

Weight

Product with packaging (kg): 7.66 kg
Product with stand (kg): 4.77 kg
Product with packaging (lb): 16.85 lb
Product with stand (lb): 10.49 lb
Product without stand (kg): 3.17 kg
Product without stand (lb): 6.97 lb

Operating conditions

Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
Temperature range (operation): 0°C to 40 °C
Relative humidity: 20%-80 %
Temperature range (storage): -20°C to 60 °C
MTBF (demonstrated): 70,000 hrs (excluded backlight)

Sustainability

Environmental and energy: EnergyStar 8.0, PowerSensor, LightSensor, EPEAT*, TCO Certified Edge, RoHS
Post consumer recycled plastic: 85%
Recyclable packaging material: 100 %
Specific Substances: PVC / BFR free housing, Mercury free

Compliance and standards

Regulatory Approvals: CE Mark, FCC Class B, CU-EAC, TUV Ergo, TUV/GS, ICES-003, CB, UKRAINIAN, TUV Eye Comfort certified

Cabinet

Finish: Texture
Foot: Black
Front bezel: Black
Rear cover: Black

What's in the box?

Cables: VGA cable, HDMI cable, DP cable, USB-A to B cable, Audio cable, Power cable
Monitor with stand
User Documentation

PHILIPS

* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.
* The maximum resolution works for either HDMI input or DP input.
* Response time value equal to SmartResponse
* NTSC Area based on CIE1976
* sRGB Area based on CIE1931
* Fast charging complies with USB BC 1.2 standard
* EPEAT rating is valid only where Philips registers the product. Please visit https://www.epeat.net/ for registration status in your country.
* The monitor may look different from feature images.