PHILIPS

4K HDR display with Ambiglow

Momentum

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43 (42.51" / 108 cm diag.)

4K UHD (3840 x 2160)

436M6VBPAB

Get in the moment

Experience a new level of entertainment immersion with the new Momentum 4K HDR display with Ambiglow lighting. An expansive 4K UHD display with DisplayHDR 1000 delivers ultra-crisp and vibrant image quality that will get you in the moment.

Expand your viewing experience
· UltraClear 4K UHD (3840 x 2160) resolution for precision
· MultiView enables simultaneous dual connect and view

Superb Picture Quality
· DisplayHDR 1000 for outstanding visuals
· Quantum Dot Tech for see-it-to-believe-it colour

Brilliant performance
· Ambiglow intensifies entertainment with a halo of light
· Enhanced audio with DTS Sound™
· Low input lag reduces time delay between devices to monitor
· Effortlessly smooth action with Adaptive-Sync technology

Designed for the way you work
· All your connections through one USB-C cable
· USB 3.0 Hub for convenient access and fast charging

Highlights

UltraClear 4K UHD Resolution

These latest Philips displays utilise high-performance panels to deliver UltraClear, 4K UHD (3840 x 2160) resolution images. Whether you are a professional requiring extremely detailed images for CAD solutions, using 3D graphics applications or are a financial wizard working on huge spreadsheets, Philips displays will make your images and graphics come alive.
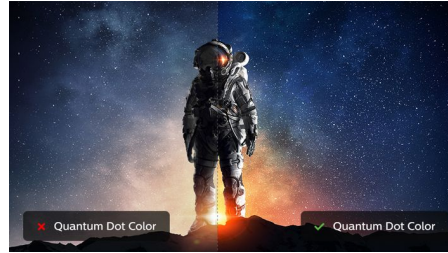
MultiView technology

With the ultra-high resolution Philips MultiView display, you can now experience a world of connectivity. MultiView enables active dual connect and view so that you can work with multiple devices like a PC and notebook simultaneously, for complex multitasking.

DisplayHDR 1000

VESA-certified DisplayHDR 1000 delivers a dramatically different visual experience. Unlike other 'HDR-compatible' screens, true DisplayHDR 1000 produces astonishing brightness, contrast and colours. With the help of local dimming and super-high peak brightness of up to 1000 nits, images come to life with advanced highlights featuring deeper, more nuanced blacks. It renders a fuller palette of rich new colours, delivering a visual experience that engages your senses.

Quantum Dot Technology

Quantum Dot Technology is an innovative semiconductor nanocrystal technology that precisely emits light to produce bluer blues, greener greens and redder reds. LCD monitors with Quantum Dot colour produce a more dynamic range of colours and show the true natural palette of colours in the picture. The result – vibrant, dynamic, see-it-to-believe-it colour.
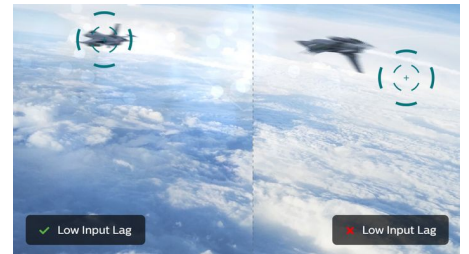
Ambiglow Technology

Ambiglow adds a new dimension to your viewing experience. The innovative Ambiglow technology enlarges the screen by creating an immersive halo of light. Its fast processor analyses the incoming image content and continuously adapts the colour and brightness of the emitted light to match the image. User-friendly options allow you to adjust the ambiance to your liking. Especially suited for watching movies, sports or playing games, Philips Ambiglow offers you a unique and immersive viewing experience.

DTS Sound™

DTS Sound is an audio-processing solution designed to optimise the playback of music, movies, streaming and games on the PC regardless of form factors. DTS Sound enables an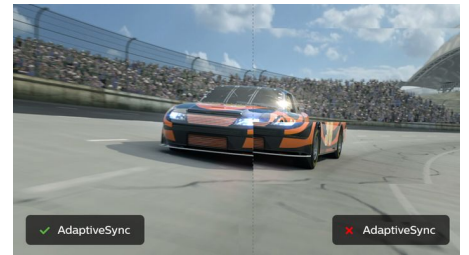 immersive virtual surround sound experience, complete with rich bass and dialogue enhancement and maximised volume levels free of any clipping or distortion.

Low Input Lag

Input lag is the amount of time that elapses between performing an action with connected devices and seeing the result on screen. Low input lag reduces the time delay between entering a command from your devices to monitor, greatly improving play on twitch-sensitive video games, particularly important for playing fast-paced, competitive games.

Adaptive-Sync technology

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

USB-C cable

The new USB 3.1 Type-C cable with a slim and reversible connector offers easy one-cable-docking. Simplify by connecting all your peripherals to your monitor as a dock with one cable to the notebook, including high resolution video output from your PC to monitor. With USB 3.1 you also get fast data transfer, up-to 20-times as fast as USB 2.0, allowing you to transfer a 4K movie faster than ever. All your connections through one simple cable.

Specifications

Picture/Display
LCD panel type: MVA
Backlight type: B-LED+QD Film
Panel Size: 42.51 inch/108 cm
Display Screen Coating: Anti-Glare, 3H, Haze 2%
Colour gamut (min.): BT. 709 Coverage: 100%*; DCI-P3 Coverage: 97.6%*
Colour gamut (typical): NTSC 119%*, sRGB 145%*
HDR: DisplayHDR 1000 and UHDA certified
Effective viewing area: 941.18 (H) x 529.42 (V)
Aspect ratio: 16:9
Optimum resolution: 3840 x 2160 @ 60 Hz
Pixel Density: 103.64 PPI
Response time (typical): 4 ms (Grey to Grey)*
Low Input Lag: best time < 4 ms
Brightness: 720 cd/m² (typical), 1000 cd/m² (peak)
Contrast ratio (typical): 4000:1
SmartContrast: 50,000,000:1
Pixel pitch: 0.245 x 0.245 mm
Viewing angle: 178º (H)/178º (V), @ C/R > 10
Flicker-free
Picture enhancement: SmartImage
Display colours: 1.07 billion colours (10 bit*)
Scanning Frequency: 23 - 80 Hz (V)/30 - 160 kHz (H)
sRGB
Adaptive sync
LowBlue Mode

Connectivity
Signal Input: DisplayPort 1.4 x 1, mini DisplayPort 1.4 x 1, HDMI 2.0 x 1, USB-C (DP Alt mode)
USB: USB 3.0x2 (2 w/fast charging)*
Sync Input: Separate Sync, Sync on Green
Audio (In/Out): PC audio-in, Headphone out

Convenience
Remote control type: Philips RC6 remote control
Built-in Speakers: 7 W x 2 with DTS sound
MultiView: PIP/PBP mode, 2 x devices
User convenience: Menu/OK, Input/Up, SmartImage Game/Return, Volume/Down, Power On/Off
Control software: SmartControl
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: Ambiglow, Low Input Lag, Kensington lock, VESA mount (200 x 200 mm)
Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7

Stand
Tilt: -5/10 degree

Power
On mode: 62.69 W (typ.) (EnergyStar 7.0 test method)
Standby mode: 0.5 W (typ.)
Off mode: 0.5 W (typ.)
Energy Label Class: C
Power LED indicator: Operation – White, Standby mode – White (flashing)
Power supply: Internal, 100-240 VAC, 50-60 Hz

Dimensions
Product with stand (mm): 976 x 661 x 264 mm
Product without stand (mm): 976 x 574 x 63 mm
Packaging in mm (W x H x D): 1090 x 764 x 338 mm

Weight
Product with stand (kg): 14.71 kg
Product without stand (kg): 13.96 kg
Product with packaging (kg): 20.72 kg

Operating conditions
Temperature range (operation): 0 to 40 ℃
Temperature range (storage): -20 to 60 ℃
Relative humidity: 20%–80% %
Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
MTBF: 50,000 hrs (excluding backlight) hour(s)

Sustainability
Environmental and energy: EnergyStar 7.0, RoHS, Lead-free, Mercury Free, WEEE
Recyclable packaging material: 100 %

Compliance and standards
Regulatory Approvals: CE Mark, FCC Class B, RCM, BSMI, CB, CECP, cETLus, China RoHS, EAC, E-standby, ICES-003, J-MOSS, KC, KCC, KUCAS, Kuwait, PSB, PSE, SASO, SEMKO, TUV/ISO9241-307, UKRAINIAN, VCCI

Cabinet
Colour: Black
Finish: Glossy / Textured

Web navigation
Hotel TV: N/A

What's in the box?
Monitor with stand
Cables: USB-C cable, USB-A to USB-C cable, HDMI cable, DP cable, Power cable
User Documentation
Accessory: Remote control

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* Response time value equal to SmartResponse
* Low Input Lag best time < 4 ms, it is on a special case and measures it.
* For Video transmission via USB-C, your Notebook/device must support USB-C DP Alt mode
* Fast charging complies with USB BC 1.2 standard
* BT. 709 / DCI-P3 Coverage based on CIE1976
* The monitor may look different from feature images.
* NTSC Area based on CIE 1976
* sRGB Area based on CIE 1931
* 10 bit is dithered by 8 bit with FRC