Philips Momentum
4K HDR display with
Ambiglow

Momentum

43 (42.51"/108 cm diag.)
3840 x 2160 (4K UHD)

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 connection 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

PHILIPS

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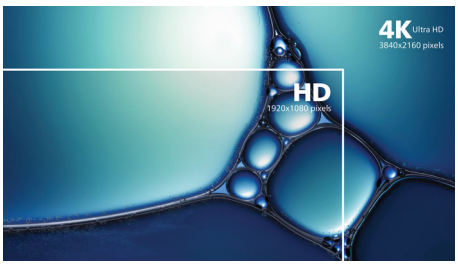
Highlights

UltraClear 4K UHD Resolution

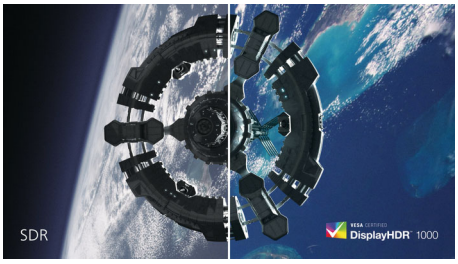


These Philips displays utilise high-performance panels to deliver UltraClear, 4K UHD (3840 x 2160) resolution images. Whether you are a demanding professional requiring extremely detailed images for CAD solutions, a user of 3D graphics applications or a financial wizard working on huge spreadsheets,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

MultiView technology

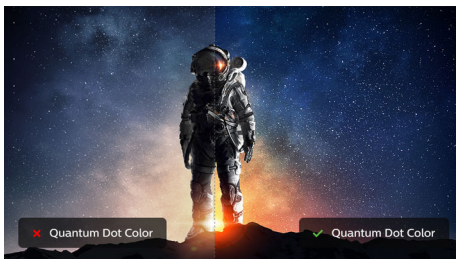
With the ultra-high resolution Philips MultiView display, you can now experience a world of connectivity. MultiView enables active dual connect and view so that you can work with multiple devices like a PC and notebook simultaneously, for complex multitasking.

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.

4K Ultra HD
DisplayHDR 1000
ULTRA HD PREMIUM
Quantum Dot Color
ambiglow
dts Sound
Low Input Lag
Adaptive -Sync
USB-C

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Specifications

Picture/Display
- Adaptive sync
- 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) nit
- Contrast ratio (typical): 4000:1
- SmartContrast: 50,000,000:1
- Pixel pitch: 0.245 x 0.245 mm
- Viewing angle: 178° (H)/178° (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
- LowBlue Mode

Connectivity
- Signal Input: HDMI 2.0 x 2, DisplayPort 1.4 x 1, mini DisplayPort 1.4 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: G
- 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 °C
- Temperature range (storage): -20 to 60 °C
- 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, 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

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

Issue date 2022-06-10

Version: 13.1.1

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EAN: 87 12581 74878 4

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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 CIE1931
* 10 bit is dithered by 8 bit with FRC