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.

Superb Picture Quality

- Quantum Dot Tech for see-it-to-believe-it colour
- DisplayHDR 1000 for truly vivid details and realism

Brilliant performance

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

Expand your viewing experience

- MultiView enables simultaneous dual connection and view
- UltraClear 4K UHD (3840 x 2160) resolution for precision

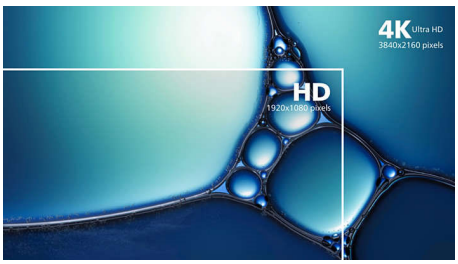
Designed for the way you work

- All your connections through one USB-C cable
- USB 3.0 Hub for convenient access and fast charging

PHILIPS

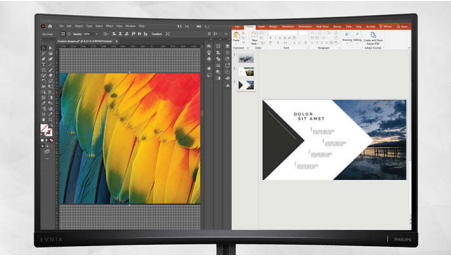
Highlights

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

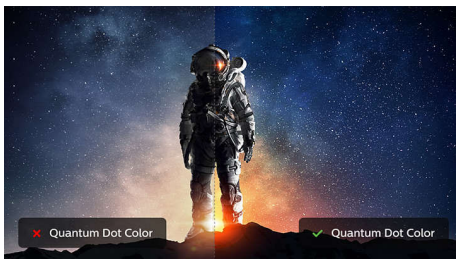


With the ultra-high resolution Philips MultiView display, you can now experience a world of connectivity. MultiView enables active dual connect and view so that you can work with multiple devices like a PC and notebook simultaneously, for complex multitasking.

VESA DisplayHDR 1000

VESA-certified DisplayHDR 1000 delivers a dramatically different visual experience vs. other 'HDR compatible' screens. Extreme deep blacks and bright whites contrast with brilliant colours to bring out details that you've never experienced before. Gamers can spot enemies hiding in the dark corners and shadows easily and movie viewers can enjoy a more compelling and lifelike show. This Philips Momentum comes with several HDR modes, each optimised for your usage scenarios: HDR Game, HDR Movie and HDR Photo.

Quantum Dot Technology

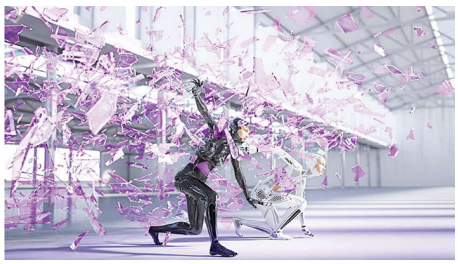


Quantum Dot Technology is an innovative semiconductor nanocrystal technology that precisely emits light to produce bluer blues, greener greens and redder reds. LCD monitors with Quantum Dot colour produce a more dynamic range of colours and show the true natural palette of colours in the picture. The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

Ambiglow Technology

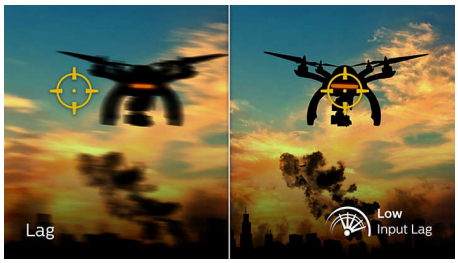
Ambiglow adds a new dimension to your viewing experience. The innovative Ambiglow technology enlarges the screen by creating an immersive halo of light. Its fast processor analyses the incoming image content and continuously adapts the colour and brightness of the emitted light to match the image. User-friendly 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 | Quantum Dot Color | dts Sound | Low Input Lag | Adaptive -Sync | Flicker-free | DisplayHDR 1000 | LowBlue Mode

4K HDR display with Ambiglow
Momentum 43 (42.51"/108 cm diag.), 3840 x 2160 (4K UHD)

436M6VBPAB/01

Specifications

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

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

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

Stand
- Tilt: -5/10 degree

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

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

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

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

Sustainability
- Environmental and energy: EnergyStar 7.0, RoHS, WEEE
- Recyclable packaging material: 100 %
- Specific Substances: Mercury free, PVC/BFR free housing

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?
- Cables: USB-C cable, USB-A to USB-C cable, HDMI cable, DP cable, Power cable
- Monitor with stand
- User Documentation
- Accessory: Remote control

Issue date 2024-06-30

Version: 13.1.1

EAN: 87 12581 74879 1

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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