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 color
- DisplayHDR 1000 for truly vivid details and realism

Brilliant performance

- Ambiglow intensifies entertainment with 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 (3840x2160) 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

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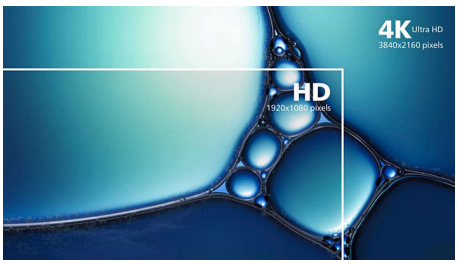
436M6VBPAB/56

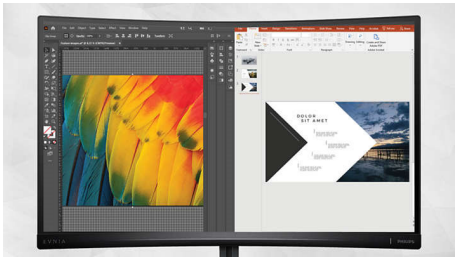
Highlights

UltraClear 4K UHD Resolution



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

MultiView technology

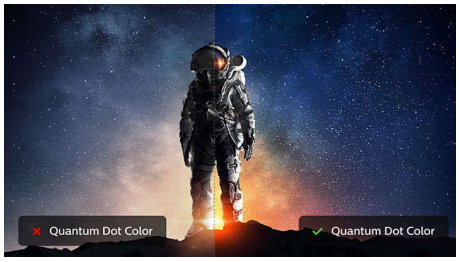


With the ultra-high resolution Philips MultiView display you can now experience a world of connectivity. MultiView enables active dual connect and view so that you can work with multiple devices like a PC and notebook simultaneously, for complex multi-tasking.

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 colors, to bring out details that you've never experienced before. Gamers can spot enemies hiding 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 optimized for your usage scenarios: HDR Game, HDR Movie, and HDR Photo.

Quantum Dot Technology

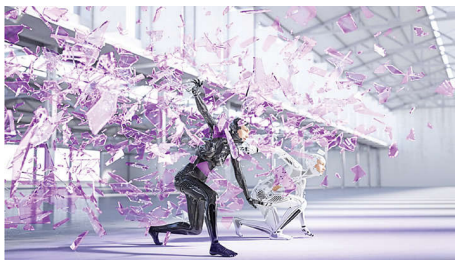


Quantum Dot Technology is an innovative semiconductor nanocrystal technology that precisely emits light to produce bluer blues, greener greens and redder reds. LCD monitors with Quantum Dot color produce a more dynamic range of colors and show the true natural palette of colors in the picture. The result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

Ambiglow Technology

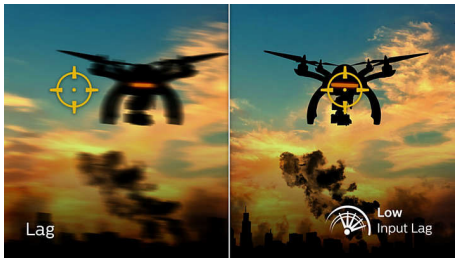
Ambiglow adds a new dimension to your viewing experience. The innovative Ambiglow technology enlarges the screen by creating an immersive halo of light. Its fast processor analyses the incoming image content and continuously adapts the color and brightness of the emitted light to match the image. User 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 optimize 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 dialog enhancement and maximized 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 improve on playing twitch-sensitive video games, particularly important to whom plays fast-paced, competitive games.

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.

4K Ultra HD
DisplayHDR 1000
Quantum Dot Color
dts Sound
Low Input Lag
Adaptive -Sync
Flicker-free
DisplayHDR 1000

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Specifications

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), 1,000 cd/m² (peak) nit
- Display colors: 1.07 billion colors (10 bit*)
- Color gamut (typical): NTSC 119%*, sRGB 145%*
- Color 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 (Gray to Gray)*
- 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

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

Convenience
- Built-in Speakers: 7 W x 2 with DTS sound
- Plug & 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 (200x200mm)
- Control software: SmartControl
- Remote control type: Philips RC6 remote control
- MultiView: PIP/PBP mode, 2x devices

Stand
- Tilt: -5/10 degree

Power
- Power supply: Internal, 100-240VAC, 50-60Hz
- 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 (blinking)

Dimensions
- Product with stand (mm): 976 x 661 x 264 mm
- Packaging in mm (WxHxD): 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: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- 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
- Color: Black
- Finish: Glossy / Textured

Issue date 2024-11-02

Version: 4.0.1

EAN: 87 12581 76056 4

www.philips.com

* Response time value equal to SmartResponse
* Low Input Lag best time < 4 ms, it is on some special case and measure 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 CIE1976
* sRGB Area based on CIE1931
* 10 bit is dithered by 8 bit with FRC