



Philips Momentum  
43" 4K HDR display with  
Ambiglow

### Momentum

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



436M6VBPAB

## Get in the moment

The Momentum display with HDR and immersive Ambiglow lighting brings you to experience a new level of entertainment immersion. HDR technology with an expansive UHD display gives impeccable picture quality to reveal fine details.

### Expand your viewing experience

- UltraClear 4K UHD (3840x2160) resolution for precision
- MultiView enables active dual connect and view at same time

### Superb Picture Quality

- High Dynamic Range (HDR) for more lifelike colorful visuals
- Quantum Dot Tech for see-it-to-believe-it color

### Brilliant performance

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

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

436M6VBPAB/00

# Highlights

## UltraClear 4K UHD Resolution



These latest 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 in a comfortable way whether at office or at home. MultiView enables active dual connect and view so that you can work with multiple devices like PC and Notebook side-by-side simultaneously, making complex multi-tasking work a breeze. Watching live football feed from your set-top box on right side, while browsing the Internet from your notebook on the left is now easy. You may want to keep an eye on the live news feed with audio in the small window, while working on your latest blog.

## High Dynamic Range (HDR)



High Dynamic Range delivers a dramatically different visual experience. With astonishing brightness, incomparable contrast and captivating color, images come to life with much greater brightness while also featuring much deeper, more nuanced darks. It renders a fuller palette of rich new colors never before

seen on display, giving you a visual experience that engages your senses and inspires emotions.

## Quantum Dot color



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

Gaming shouldn't be a choice between choppy gameplay or broken frames. With the new Philips monitor it doesn't have to be. Get fluid, artifact-free performance at virtually any framerate with Philips 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.

4K  
Ultra HD

VESA CERTIFIED  
DisplayHDR™ 1000

ULTRAHD™  
PREMIUM

Quantum Dot  
Color

ambiglow

dts  
Sound

Low Input Lag

Adaptive Sync

USB-C

# Specifications

## Picture/Display

- LCD panel type: MVA
- Backlight type: W-LED system
- Panel Size: 42.51 inch / 108 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 2%
- Color gamut (min.): BT. 709 Coverage: 100%\*; DCI-P3 Coverage: 97.6%\*
- Color gamut (typical): NTSC 119%\*, sRGB 145%\*
- HDR: DisplayHDR1000 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 (Gray to Gray)\*
- Brightness: 720 cd/m<sup>2</sup> (typical), 1,000 cd/m<sup>2</sup> (peak)
- 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 colors: 1.07G (8bits + FRC)
- Scanning Frequency: VGA: 47 - 63 Hz ; HDMI/ DisplayPort: 23 - 80 Hz / VGA/HDMI: 30 - 99 kHz ; DisplayPort: 30 - 160 kHz
- sRGB
- Adaptive sync
- LowBlue Mode

## Connectivity

- Signal Input: HDMI 2.0 x 1, DisplayPort 1.2, mini DisplayPort 1.2 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, 2x 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 (200x200mm)
- Plug & Play Compatibility: DDC/CI, Mac OS X,

sRGB, Windows 10 / 8.1 / 8 / 7

## Stand

- Tilt: -5/10 degree

## Power

- On mode: 162 W (typ.)
- Standby mode: 0.5 W (typ.)
- Off mode: 0.5 W (typ.)
- Power LED indicator: Operation - White, Standby mode- White (blinking)
- Power supply: Internal, 100-240VAC, 50-60Hz

## Dimensions

- Product with stand (mm): 976 x 661 x 264 mm
- Product without stand (mm): 976 x 574 x 63 mm
- Packaging in mm (WxHxD): 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: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- 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

- Color: 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



Issue date 2018-04-24

Version: 2.1.1

12 NC: 8670 001 49247  
EAN: 87 12581 74878 4

© 2018 Koninklijke Philips N.V.  
All Rights reserved.

Specifications are subject to change without notice.  
Trademarks are the property of Koninklijke Philips N.V.  
or their respective owners.

[www.philips.com](http://www.philips.com)

\* Response time value equal to SmartResponse  
\* 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  
\* Notebook charging depends on notebook manufacturer  
\* 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 CIE 1931