



4K HDR display with Ambiglow

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

436M6VBPAB/89

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.

Benefits

Expand your viewing experience

- UltraClear 4K UHD (3840x2160) resolution for precision
- MultiView enables simultaneous dual connection and view

Superb Picture Quality

- DisplayHDR 1000 for truly vivid details and realism
- 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 action with Adaptive-Sync technology

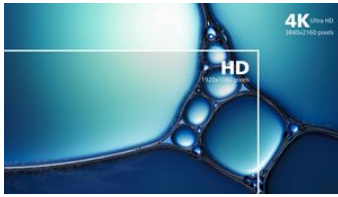
Designed for the way you work

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

PHILIPS

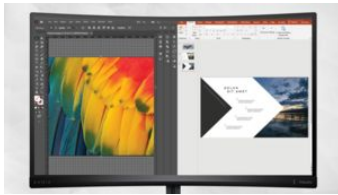
Features

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



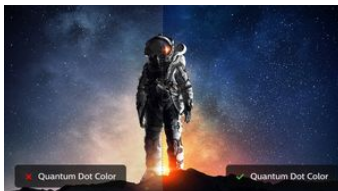
With the ultra-high resolution Philips MultiView display you can now experience a world of connectivity. MultiView enables active dual connect and view so that you can work with multiple devices like a PC and notebook simultaneously, for complex multi-tasking.

VESA DisplayHDR 1000



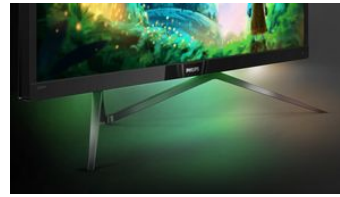
VESA-certified DisplayHDR 1000 delivers a dramatically different visual experience vs. other 'HDR compatible' screens. Extreme deep blacks and bright whites contrast with brilliant colors, to bring out details that you've never experienced before. Gamers can spot enemies hiding the dark corners and shadows 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



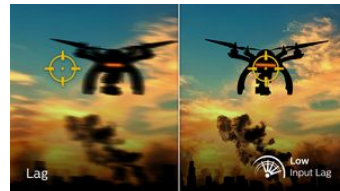
Ambiglow adds a new dimension to your viewing experience. The innovative Ambiglow technology enlarges the screen by creating an immersive halo of light. Its fast processor analyses the incoming image content and continuously adapts the color and brightness of the emitted light to match the image. User friendly options allow you to adjust the ambience 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.

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.

USB 3.0 Hub with FastCharge

Super Speed USB 3.0 deploys 5.0 gbit/s transfer rate, which is about 10 times faster than USB 2.0 standard significantly reducing data transfer time saving you time and money. With more bandwidth, super speed transfer rates, better power management and superior overall performance, USB 3.0 sets the

latest global standard allowing you to use the large capacity storage devices. Now you don't have to wait so long for devices to charge. New FastCharge enables quick charging to charge and go. USB 3.0 is also backward compatible with USB 2.0 devices.

Specifications

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Picture/Display

Adaptive sync	Yes
LCD panel type	MVA
Backlight type	B-LED+QD Film
Panel Size	42.51 inch / 108 cm
Display Screen	Anti-Glare, 3H, Haze 2%
Coating	
Color gamut (min.)	BT. 709 Coverage: 100%*; DCI-P3 Coverage: 97.6%*
Color 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 (Gray to Gray)*
Low Input Lag	best time < 4 ms
Brightness	720 cd/m ² (typical), 1,000 cd/m ² (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	Yes
Picture enhancement	SmartImage
Display colors	1.07 billion colors (10 bit*)
Scanning Frequency	23 - 80 Hz (V) / 30 - 160 kHz (H)
sRGB	Yes
LowBlue Mode	Yes

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

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
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Power

On mode	62.69 W (typ.) (EnergyStar 7.0 test method)
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 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
Finish

Black
Glossy / Textured

- * 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



data subject to change
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