4K HDR display with Ambiglow

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

436M6VBRAB/01

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.

Benefits

Expand your viewing experience

- UltraClear 4K UHD (3840x2160) resolution for precision
- MultiView 4K for 4 systems on one screen

Superb Picture Quality

- High Dynamic Range (HDR) for more lifelike colorful visuals
- Ultra Wide-Color wider range of colors for a vivid picture

Brilliant performance

- Ambiglow intensifies entertainment with halo of light

- Enhanced audio with DTS Sound™
- Low input lag reduces time delay between devices to monitor
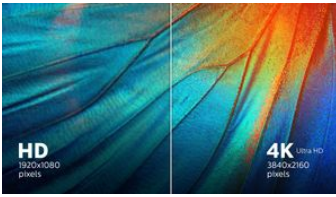- Effortlessly smooth action with Adaptive-Sync technology

Designed for the way you work

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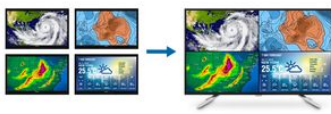
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Features

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 for 4K

Philips MultiView feature on this expansive 4K UHD display enables you to have up to four systems each shown in Full HD on one screen. You can use the Picture-by-Picture (PbP) for monitoring four systems on one screen for control rooms or security. Or for multiple devices like two notebooks side-by-side simultaneously, making collaboration more productive. Or Picture-in-Picture mode (PiP) watching a live football feed from your set-top box, while working on your PC.
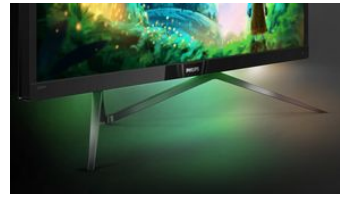
High Dynamic Range (HDR)

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.

Ultra Wide-Color Technology

Ultra Wide-Color Technology delivers a wider spectrum of colors for a more brilliant picture. Ultra Wide-Color wider "color gamut" produces more natural-looking greens, vivid reds and deeper blues. Bring, media entertainment, images, and even productivity more alive and vivid colors from Ultra Wide-Color Technology.
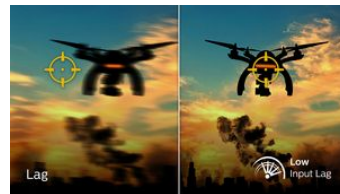
Ambiglow Technology

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.

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

Picture/Display

LCD panel type	MVA
Adaptive sync	Yes
Backlight type	W-LED system
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%*
HDR	DisplayHDR400 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)*		Off mode	0.3 W (typ.)
Brightness	450 cd/m²		Energy Label Class	C
Contrast ratio (typical)	4000:1		Power LED indicator	Operation - White Standby mode- White (blinking)
SmartContrast	50,000,000:1		Power supply	Internal
Pixel pitch	0.245 x 0.245 mm			100-240VAC, 50-60Hz

Response time (typical) — 4 ms (Gray to Gray)*
Brightness — 450 cd/m²
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 — VGA (Analog)
DisplayPort 1.4 x 1
HDMI 2.0 x 2
USB-C (DP Alt mode)
USB — USB 3.0x3 (1 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
4x 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
Ukranian
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 — 120 W (typ.)
Standby mode — 0.5 W (typ.)

Off mode — 0.3 W (typ.)
Energy Label Class — C
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) — 12.72 kg
Product without stand (kg) — 11.97 kg
Product with packaging (kg) — 18.84 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 — RoHS
Mercury Free
WEEE
Recyclable packaging material — 100 %

Compliance and standards

Regulatory Approvals — CCC
CECP
KC
KCC
PSE
VCCI
J-MOSS
BSMI
SEMKO
RCM
CE Mark
FCC Class B
EAC
cETLus
TUV/ISO9241-307
PSB
E-standby
SASO
CB
China RoHS
UKRAINIAN
Kuwait
KUCAS
ICES-003

Cabinet

Color — Black
Finish — Glossy / Textured

data subject to change
2021, March 1

* Response time value equal to SmartResponse
* Fast charging complies with USB BC 1.2 standard
* For Video transmission via USB-C, your Notebook/device must support USB-C DP Alt mode
* The monitor may look different from feature images.
* BT. 709 / DCI-P3 Coverage based on CIE1976
* 10 bit is dithered by 8 bit with FRC

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