

Philips Curved Business  
Monitor  
32:9 SuperWide curved  
monitor with USB-C

### 6000 series

45 (44.5" / 113 cm diag.)  
5120 x 1440 (Dual QHD)

45B1U6900CH



## Beyond well-equipped

with a pop-up webcam

This USB-C monitor is for data transfer, power delivery and watching videos. The integrated 5 MP webcam delivers sharp images, and the noise cancelling mic lets people hear you fine. Windows Hello Webcam for quick access and strong security.

#### Superb Picture Quality

- VA display delivers awesome images with wide viewing angles
- DisplayHDR 400 for more lifelike and outstanding visuals

#### Single cable USB-C connection

- RJ-45 to USB-C gives easy network connection with security
- USB 3.2 high-speed data transfer

#### Designed for the way you work

- Tilt, swivel and height-adjust for an ideal viewing position
- Eyesafe-certified blue light protection and colour accuracy
- Built-in KVM switch to easily switch between sources
- Webcam with noise-cancelling microphone for collaboration
- Curved display design for a more immersive experience
- 32:9 SuperWide: for replacing multi-screen setups

#### Designed for sustainability

- PowerSensor saves up to 80% energy costs

# PHILIPS

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45B1U6900CH/01

# Highlights

## USB-C Docking with RJ45



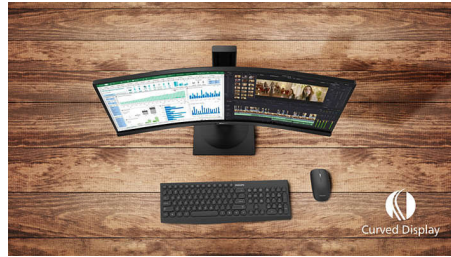
Simplify all peripherals from monitor to PC using one-cable docking USB Type-C connector, including networking, high-resolution video output from PC to monitor, and surfing on the Internet without an additional network cable, even without a LAN port on your notebook. RJ45 connection through USB-C offers a fast and secure connection when needed. Getting the fastest data speeds allows you to transfer data from a HDD to your PC faster than ever. Additionally, USB-C with power delivery can even enable you to power and charge your notebook from the monitor, eliminating the need for extra power cables.

## DisplayHDR 400



VESA-certified DisplayHDR 400 delivers a significant step up from normal SDR displays. Unlike other 'HDR-compatible' screens, true DisplayHDR 400 produces astonishing brightness, contrast and colours. With global dimming and minimum 400 nits of brightness, images come to life with notable highlights while featuring deeper, more nuanced blacks. It renders a fuller palette of rich new colours, delivering a visual experience that engages your senses.

## Curved display design



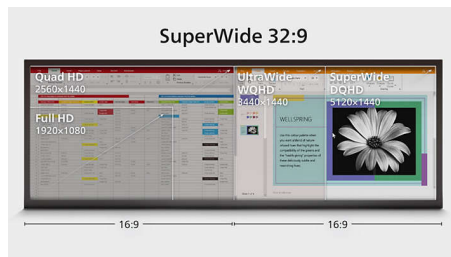
Desktop monitors offer a personal user experience, which suits a curved design very well. The curved screen provides a pleasant yet subtle immersion effect, which focuses on you at the centre of your desk.

## MultiClient Integrated KVM



With the MultiClient Integrated KVM switch, you can control two separate PCs with one monitor-keyboard-mouse setup. A convenient button allows you to quickly switch between sources. Handy with setups that require dual PC computing power or sharing one large monitor to show two different PCs.

## 32:9 SuperWide



This monitor's 32:9 SuperWide screen provides users with the ultimate replacement for a multi-screen desktop. With a singular

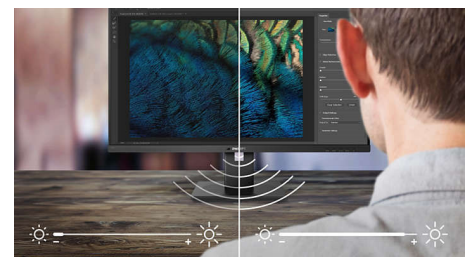
44.5 inch screen that is equivalent to two 23.8 inch 16:9 QHD monitors, it allows users to work seamlessly without having to daisy chain and increases productivity by offering users a large screen to open complex spreadsheets and view videos in their full form.

## Webcam and noise-cancelling mic



This Philips monitor comes with a built-in 5 MP webcam, a noise-cancelling microphone, and speakers, making it perfect for working from home and collaborating remotely. The webcam is certified for Windows Hello and is equipped with advanced sensors for Windows Hello™ facial recognition, which conveniently logs you into your Windows devices in less than 2 seconds. The physical camera switch offers extra privacy when not in use. The noise-cancelling microphone and dual 5 watt integrated speakers deliver clear communications.

## PowerSensor



PowerSensor is a built-in 'people sensor' that transmits and receives harmless infrared signals to determine if the user is present and then automatically reduces monitor brightness when the user steps away from the desk, cutting energy costs by up to 80 percent and prolonging monitor life.



# Specifications

## Connectivity

- Signal Input: HDMI 2.0 x 2, DisplayPort 1.4 x 1, USB-C x 2 (upstream, DP Alt mode, Data, PD up to 100 W)
- Sync Input: Separate Sync
- Audio (In/Out): Audio out/Microphone in combo jack
- RJ45: Ethernet LAN up to 1 G\*, Wake on LAN
- HDCP: HDCP 1.4 (HDMI/DisplayPort/USB-C), HDCP 2.2 (HDMI/DisplayPort/USB-C)
- HBR3: HBR3 (USB-C/DisplayPort)
- USB Hub: USB 3.2 Gen 2 / 10 Gbps, USB-A downstream x 4 (with 1 for fast charge B.C 1.2), USB-C downstream x 1 (Data, PD 15 W)

## Picture/Display

- Panel Size: 44.5 inch / 113 cm
- Aspect ratio: 32:9
- LCD panel type: VA LCD
- Backlight type: W-LED system
- Pixel pitch: 0.2124 x 0.2124 mm
- Brightness: 450 cd/m<sup>2</sup>
- Display colours: 16.7 M (8 bit)
- Colour gamut (typical): NTSC 107%\*, sRGB 123%\*
- Contrast ratio (typical): 3000:1
- SmartContrast: 80,000,000:1
- Response time (typical): 4 ms (Grey to Grey)\*
- Viewing angle: 178° (H)/178° (V), @ C/R > 10
- Picture enhancement: SmartImage
- Maximum resolution: 5120 x 1440 @ 75 Hz
- Effective viewing area: 1087.488 (H) x 305.856 (V) - at a 1500R curvature\*
- Scanning Frequency: 30–114 kHz (H)/48–75 Hz (V)
- sRGB
- Delta E: < 2
- Flicker-free
- Pixel Density: 120 PPI
- LowBlue Mode
- Display Screen Coating: Anti-Glare, 2H, Haze 25%
- SmartUniformity: 93 ~ 105%

- EasyRead
- Adaptive sync
- HDR: DisplayHDR 400 certified

## Power Delivery

- Max power delivery: Up to 100 W\* (5 V/3 A, 7 V/3 A, 9 V/3 A, 10 V/3 A, 12 V/3 A, 15 V/3 A, 20 V/4.8 A)
- Version: USB PD version 3.0

## Convenience

- Built-in Speakers: 5 W x 2
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 11/10/8.1/8
- User convenience: Mic, SmartImage, Input, User, Menu, Power On/Off
- OSD Languages: Brazil Portuguese, Czech, Dutch, English, French, Finnish, German, Greek, Hungarian, Italian, Japanese, Korean, Portuguese, Polish, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish, Ukrainian
- Other convenience: Kensington lock, Earphone hook, VESA mount (100 x 100 mm)
- Control software: SmartControl
- MultiView: PIP/PBP mode, 2 x devices
- Built-in webcam: Pop-up 5.0 megapixel camera with a microphone and LED indicator (for Windows Hello)
- KVM: Yes (USB-C/USB-C)
- Noise cancellation

## Stand

- Height adjustment: 150 mm
- Swivel: -/+45 degree
- Tilt: -5/15 degree

## Power

- ECO mode: 39.4 W (typ.)
- Power supply: Built-in, 100–240 VAC, 50–60 Hz
- Off mode: Zero watts with AC switch
- On mode: 46.3 W (typ.) (EnergyStar test method)

- Standby mode: 0.3 W (typ.)
- Power LED indicator: Operation - White, Standby mode - White (flashing)
- Energy Label Class: G

## Dimensions

- Packaging in mm (W x H x D): 1180 x 235 x 535 mm
- Product without stand (mm): 1085 x 337 x 158 mm
- Product with stand (max height): 1085 x 515 x 238 mm

## Weight

- Product with packaging (kg): 17.26 kg
- Product with stand (kg): 12.96 kg
- Product without stand (kg): 9.90 kg

## Operating conditions

- Altitude: Operation: +12,000 ft (3658 m), Non-operation: +40,000 ft (12,192 m)
- Temperature range (operation): 0°C to 40 °C
- Relative humidity: 20%-80 %
- Temperature range (storage): -20°C to 60 °C
- MTBF (demonstrated): 70,000 hrs (excluded backlight)

## Sustainability

- Environmental and energy: PowerSensor, LightSensor, EnergyStar 8.0, EPEAT\*, RoHS, TCO Certified Edge
- Post-consumer recycled plastic: 85%
- Recyclable packaging material: 100 %
- Specific Substances: Mercury free, PVC/BFR free housing

## Compliance and standards

- Regulatory Approvals: CB, CE Mark, FCC Class B, ICES-003, CU-EAC, EAEU RoHS, TUV Ergo, TUV/ GS, TUV Eyesafe certified, cETLus

# Specifications

## Cabinet

- Finish: Texture
- Foot: Black
- Front bezel: Black
- Rear cover: Black

## What's in the box?

- Cables: HDMI cable, DisplayPort cable, USB-C to C/A Y cable, Power cable
- Monitor with stand
- User Documentation



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or their respective owners.

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\* Radius of the arc of the display curvature in mm

\* Response time value equal to SmartResponse

\* NTSC Area based on CIE 1976

\* sRGB Area based on CIE1931

\* For Video transmission via USB-C, your Notebook/device must support USB-C DP Alt mode

\* Activities such as screen sharing and online streaming over the Internet can impact your network performance. Your hardware and network bandwidth will determine the overall audio and video quality.

\* For USB-C power and charging function, your Notebook/device must support USB-C standard Power Delivery specifications. Please check with your Notebook user manual or manufacturer for more details.

\* If your Ethernet connection seems slow, please enter the OSD menu and select USB 3.0 or a higher version that can support the LAN speed up to 1G.

\* The USB-C power delivery of this display is up to 100 W (96 W in typical). The maximum power delivery will depend on your device.

\* When calculating energy costs saving from PowerSensor, both USB and Power delivery are excluded.

\* EPEAT rating is valid only where Philips registers the product. Please visit <https://www.epeat.net/> for registration status in your country.

\* The monitor may look different from feature images.