Philips 45B1U6900CH(45B1U6900CH/00)

Philips 45B1U6900CH - 6000 Series - LED monitor - curved - 45" (44.5" viewable) - 5120 x 1440 Dual Quad HD @ 75 Hz - VA - 450 cd/m² - 3000:1 - DisplayHDR 400 - 4 ms - 2xHDMI, DisplayPort, 2xUSB-C - speakers - black

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

Key Selling Points

RJ-45 to USB-C gives easy network connection with security
DisplayHDR 400 for more lifelike and outstanding visuals
Curved display design for a more immersive experience
32:9 SuperWide screen designed to replace multiscreen setups
Built-in KVM switch to easily switch between sources
Webcam with noise-canceling microphone for collaboration
PowerSensor saves up to 80% energy costs
Eyesafe-certified blue light protection and color accuracy
Tilt, swivel and height-adjust for an ideal viewing position
VA display delivers awesome images with wide viewing angles

Product Features

RJ-45 to USB-C gives easy network connection with security
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 for more lifelike and outstanding visuals
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 colors. With global dimming and peak brightness up to 400 nits, images come to life with notable highlights while featuring deeper, more nuanced blacks. It renders a fuller palette of rich colors, delivering a visual experience that engages your senses.

Curved display design for a more immersive experience
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 center of your desk.

32:9 SuperWide screen designed to replace multiscreen setups
32:9 SuperWide 49" screen with 5120 x 1440 resolution is designed to replace multiscreen setups for a massive wide view. It's like having two 27" 16:9 Quad HD displays side by side. SuperWide monitors offer the screen area of dual monitors without the complicated setup.

Built-in KVM switch to easily switch between sources
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.

Webcam with noise-canceling microphone for collaboration
This Philips monitor comes with a built-in 5MP webcam, a noise-canceling 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-canceling microphone and dual 5 watt integrated speakers deliver clear communications.

PowerSensor saves up to 80% energy costs
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 then user steps away from the desk, cutting energy costs by up to 80 percent and prolonging monitor life.

Eyesafe-certified blue light protection and color accuracy
Philips display meets the TUV Rheinland Eyesafe standard to truly protect you from long exposure to blue light. The always-on blue light filter not only helps reduce digital eye strain, but also guarantees color integrity.

Tilt, swivel and height-adjust for an ideal viewing position
The compact ergo base is a people-friendly Philips monitor base that tilts, swivels and height-adjusts so each user can position the monitor for maximum viewing comfort and efficiency.

VA display delivers awesome images with wide viewing angles
The Philips VA LED display uses an advanced multi-domain vertical alignment technology that gives you super-high static contrast ratios for extra-vivid and bright images. While standard office applications are handled with ease, it is especially suitable for photos, web browsing, films, gaming and demanding graphical applications. Its optimized pixel management technology gives you a 178/178 degree extra-wide viewing angle, resulting in crisp images.

Main Specifications

Product Description	Philips 45B1U6900CH - 6000 Series - LED monitor - curved - 45" - HDR
Device Type	LED-backlit LCD monitor - 45"
Energy Class	Class G
Curved Screen	Yes
Features	KVM Switch, Gigabit Ethernet network adapter, USB 3.2 Gen 2 hub, pop-up webcam, USB PD 100 Watt
Panel Type	VA
Aspect Ratio	32:9
Native Resolution	Dual Quad HD 5120 x 1440 at 75 Hz
Pixel Pitch	0.2124 mm
Brightness	450 cd/m²
Contrast Ratio	3000:1 / 80000000:1 (dynamic)
HDR Capable	HDR400 / DisplayHDR 400
Response Time	4 ms (grey-to-grey)
Colour Support	16.7 million colours (8-bit)
Colour Gamut	107% NTSC, 123% sRGB
Input Connectors	2xHDMI, DisplayPort, 2xUSB-C
Built-in Ethernet	Yes
Audio Input	Microphone
Built-in Webcam	5 Megapixel
Display Position Adjustments	Height, swivel, tilt
Screen Coating	Anti-glare, 2H Hard Coating, Haze 25%
Voltage	AC 100-240 V (50/60 Hz)
Colour	Black
Dimensions (WxDxH) - with stand (highest position)	108.5 cm x 23.8 cm x 51.5 cm
Weight	12.96 kg
Environmental Standards	TCO Certified Edge Displays, TCO Certified Displays 9, ENERGY STAR Qualified
Compliant Standards	Plug and Play, FCC Class B certified, TUV GS, ICES-003, CB, TUV Ergo, DDC/CI, RoHS, cETLus, CU-EAC, BFR-free, HDCP 2.2, HDCP 1.4, USB Power Delivery 3.0, PVC-free, Mercury-free, EAEU RoHS, TUV Rheinland Eyesafe Display, TCO Certified Edge
Manufacturer Warranty	3-year limited warranty

Extended Specification

General

Display Type	LED-backlit LCD monitor / TFT active matrix
Energy Class	Class G
Energy Class (HDR)	Class G
Diagonal Size	45"
Viewable Size	44.5"
Curved Screen	Yes (1500R)
Built-in Devices	KVM Switch, Gigabit Ethernet network adapter, USB 3.2 Gen 2 hub, pop-up webcam
USB Power Delivery	100 Watt
Panel Type	VA
Aspect Ratio	32:9
Native Resolution	Dual Quad HD 5120 x 1440 at 75 Hz
Pixel Pitch	0.2124 mm
Pixel Per Inch	120
Brightness	450 cd/m²
Contrast Ratio	3000:1 / 80000000:1 (dynamic)
HDR Format	HDR400
HDR Certification	DisplayHDR 400
Colour Support	16.7 million colours (8-bit)
Colour Gamut	107% NTSC, 123% sRGB
Response Time	4 ms (grey-to-grey)
Vertical Refresh Rate	48 - 75 Hz
Horizontal Refresh Rate	30 - 114 kHz
Horizontal Viewing Angle	178
Vertical Viewing Angle	178
Screen Coating	Anti-glare, 2H Hard Coating, Haze 25%
Backlight Technology	WLED
OSD Languages	Multilingual
Features	Picture in picture, picture by picture, sRGB colour management, Compact Ergo Base, Eco-Mode, PowerSensor, MultiView, SmartImage, Flicker Free technology, 8-bit gamma, Adaptive-Sync technology, LightSensor, EasyRead, Delta E<2 calibration, HBR3 for USB-C, LowBlue Mode, MultiClient KVM, headphone hook, SmartUniformity 93 - 105%
Colour	Black
Dimensions (WxDxH)	108.5 cm x 23.8 cm x 51.5 cm - with stand (highest position)
Weight	12.96 kg

Manufacturer Warranty

Service & Support	Limited warranty - 3 years

Miscellaneous

Features	Security lock slot (cable lock sold separately), textured finish
Cables Included	1 x HDMI cable ¦ 1 x DisplayPort cable ¦ 1 x USB-C to USB-C / USB-A cable
MTBF	70,000 hour(s)
Compliant Standards	Plug and Play, FCC Class B certified, TUV GS, ICES-003, CB, TUV Ergo, DDC/CI, RoHS, cETLus, CU-EAC, BFR-free, HDCP 2.2, HDCP 1.4, USB Power Delivery 3.0, PVC-free, Mercury-free, EAEU RoHS, TUV Rheinland Eyesafe Display, TCO Certified Edge

Security Slot Type	Kensington security slot

Power

Input Voltage	AC 100-240 V (50/60 Hz)
Power Consumption SDR (On mode)	58 kWh/1000h
Power Consumption HDR (On mode)	77 kWh/1000h
Power Consumption (Typical)	46.3 Watt
Power Consumption Stand by	0.3 Watt
Power Consumption (Off Mode)	0 Watt
On / Off Switch	Yes

Software / System Requirements

Included Software	Philips SmartControl

Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	40 °C
Humidity Range Operating	20 - 80% RH

Audio

Type	Speakers - stereo
Output Power / Channel	5 Watt

Connectivity

Interfaces	DisplayPort 1.4 (HDCP 1.4, HDCP 2.2) ¦ 2 x HDMI (HDCP 1.4, HDCP 2.2) ¦ 2 x USB-C upstream (HDCP 1.4, HDCP 2.2, DisplayPort Alt Mode, power up to 100W) ¦ USB-C 3.2 Gen 2 downstream (data, power up to 15W) ¦ 3 x USB 3.2 Gen 2 downstream ¦ USB 3.2 Gen 2 downstream (BC 1.2) ¦ Headphone/microphone combo jack (mini-jack) ¦ LAN (RJ-45)

Audio Input

Type	Microphone
Microphone Features	Noise-cancelling

Dimensions & Weight

Dimensions & Weight Details	With stand (highest position) - width: 108.5 cm - depth: 23.8 cm - height: 51.5 cm - weight: 12.96 kg ¦ Without stand - width: 108.5 cm - depth: 15.8 cm - height: 33.7 cm - weight: 9.9 kg

Dimensions & Weight (Shipping)

Shipping Width	118 cm
Shipping Depth	23.5 cm
Shipping Height	53.5 cm
Shipping Weight	17.26 kg

Mechanical

Display Position Adjustments	Height, swivel, tilt
Tilt Angle	-5/+30
Swivel Angle	90
Height Adjustment	150 mm
VESA Mounting Interface	100 x 100 mm

Built-in Webcam

Sensor Resolution	5 Megapixel
Features	LED indicator, facial recognition for Windows Hello, Windows Hello compatible

Sustainability Information

TCO Certified	TCO Certified Edge Displays, TCO Certified Displays 9
ENERGY STAR Certified	Yes
ENERGY STAR Version	8.0