

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

**5000 series**

49 (48.8" / 124 cm diag.)  
5120 x 1440 (Dual QHD)

**49B2U5900CH**



## Redefining workflow productivity

Welcome to a more efficient workspace. To facilitate everyday workflow, this monitor's large 32:9 SuperWide screen is equipped with a new busy light and tilting webcam feature that helps you flow between tasks with ease.

### 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
- Securely sign in with pop-up webcam with Windows Hello™
- Eyesafe certified blue light protection and color accuracy
- 32:9 SuperWide screen designed to replace multiscreen setups
- Curved display design for more immersive experience
- Adjustable Webcam: For video conferencing in comfort.
- Busylight: for setting your working status
- Earphone Hook: for customizable storage

**PHILIPS**

32:9 SuperWide curved monitor with USB-C  
5000 series 49 (48.8" / 124 cm diag.), 5120 x 1440 (Dual QHD)

49B2U5900CH/75

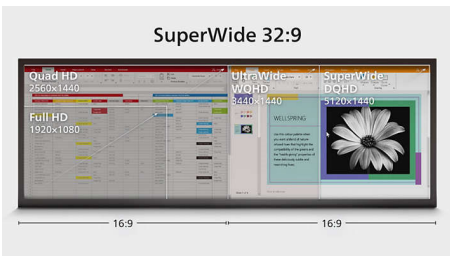
# Highlights

## Curved display design



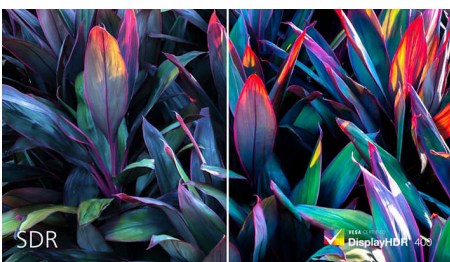
Desktop monitors offer a personal user experience, which suits a curve design very well. The curved screen provides a pleasant yet subtle immersion effect, which focuses on you at the center of your desk.

## 32:9 SuperWide



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

## 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 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 new colors, delivering a visual experience that engages your senses.

## USB-C Docking with RJ45



Simplify all peripherals from monitor to PC using one-cable-docking USB Type-C connector, includes networking, high resolution video output from PC to monitor, and surfing on Internet without an additional network cable, even without 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.

## High speed data transfer

USB 3.2 high speed data transfer

## SmartKVM



Unlike traditional built-in KVM monitor button, the smart KVM allows for switching between sources with the click of a button on

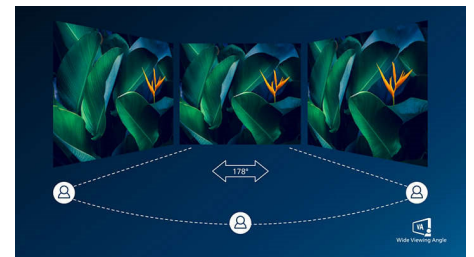
your keyboard. When all devices are properly connected, users can easily switch between sources by clicking the "Ctrl" key three times.

## TUV Rheinland Eyesafe



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

## VA display



Philips VA LED display uses an advanced multi-domain vertical alignment technology which 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, movies, gaming, and demanding graphical applications. It's optimized pixel management technology gives you 178/178 degree extra wide viewing angle, resulting in crisp images.



# Specifications

## Connectivity

- Signal Input: HDMI 2.0 x 2, DisplayPort 1.4 x 1, USB-C x 1 (upstream, DP Alt mode, Data, PD up to 100W)
- Sync Input: Separate Sync
- Audio (In/Out): Audio out / Microphone in combo jack
- RJ45: Ethernet LAN up to 1G\*, 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 1 / 5 Gbps, USB-B upstream x 1, USB-A downstream x 2 (with 1 for fast charge B.C 1.2), USB-C downstream x 1 (Data, PD 15W)

## Picture/Display

- Panel Size: 48.8 inch / 124 cm
- Aspect ratio: 32:9
- LCD panel type: VA LCD
- Backlight type: W-LED system
- Pixel pitch: 0.2328 x 0.2328 mm
- Brightness: 450 cd/m<sup>2</sup>
- Display colors: 1.07 B (8 bit + FRC)
- Color gamut (typical): NTSC 97%\*, sRGB 119%\*
- Contrast ratio (typical): 3000:1
- SmartContrast: 80,000,000:1
- Response time (typical): 4 ms (Gray to Gray)\*
- Viewing angle: 178° (H) / 178° (V), @ C/R > 10
- Picture enhancement: SmartImage
- Maximum resolution: 5120 x 1440 @ 75 Hz
- Effective viewing area: 1191.936 (H) x 335.232 (V) - at a 1800R curvature\*
- Scanning Frequency: HDMI: 30 - 140 kHz (H) / 48-75 Hz (V); DP: 30 - 114 kHz (H) / 48-75 Hz (V); USB-C: 30 - 114 kHz (H) / 30-75 Hz (V)
- sRGB
- Delta E: < 2
- Flicker-free
- Pixel Density: 109 PPI
- LowBlue Mode
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- SmartUniformity: 93 ~ 105%
- EasyRead
- Adaptive sync
- HDR: DisplayHDR 400 certified

## Power Delivery

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

## Convenience

- Built-in Speakers: 3 W x 2
- Plug & 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 (100x100mm)
- Control software: SmartControl
- MultiView: PIP/PBP mode, 2x devices
- Built-in webcam: Pop-up 5.0 megapixel camera with microphone and LED indicator (for Windows Hello)
- Busylight
- KVM: Yes (USB-C/USB-B)

## Stand

- Height adjustment: 150 mm
- Swivel: -/+30 degree
- Tilt: -5/15 degree

## Power

- ECO mode: 39 W (typ.)
- Power supply: Built-in, 100-240VAC, 50-60Hz
- Off mode: Zero watts with AC switch
- On mode: 46.1 W (typ.) (EnergyStar test method)
- Standby mode: 0.8 W (typ.)
- Power LED indicator: Operation - White, Standby mode- White (blinking)
- Energy Label Class: F

## Dimensions

- Packaging in mm (WxHxD): 1290 x 300 x 475 mm
- Product without stand (mm): 1193 x 373 x 164 mm
- Product with stand(max height): 1193 x 583 x 268 mm

## Weight

- Product with packaging (kg): 19.38 kg kg
- Product with stand (kg): 15.21 kg kg
- Product without stand (kg): 11.58 kg kg

## Operating conditions

- Altitude: Operation: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
- 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

## Cabinet

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



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

\* Response time value equal to SmartResponse

\* NTSC Area based on CIE1976

\* sRGB Area based on CIE1931

\* Activities such as screen sharing, on-line streaming video and audio over the Internet can impact your network performance. Your hardware, network bandwidth and its performance will determine 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 OSD menu and select USB 3.0 or higher version which can support the LAN speed to 1G.

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

\* 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.

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

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

\* The monitor may look different from feature images.