

Philips Professional  
Monitor  
4K UHD Mini-LED  
Thunderbolt™ 4 monitor

## Brilliance 7000

27" (68.6 cm)  
3840 x 2160 (4K UHD)

27B1U7903



# Simply brilliant

## Mini LED with Thunderbolt docking

The Philips Thunderbolt™ 4 monitor delivers a secure, reliable one-cable docking solution. Mini LED backlit and DisplayHDR™ 1400 certified display generates outstanding picture performance and colour accuracy for colour-critical users.

### **Thunderbolt™ 4 port for flexibility and performance**

- Simple and powerful daisy chaining for multi-monitor setups
- Lightning-fast connectivity for data, video and Ethernet
- Delivers up to 90 W of power for devices on a single port

### **Vibrant colours, incredible depth, finest details**

- DisplayHDR™ 1400 delivers impressive colour and contrast
- IPS technology for full colours and wide viewing angles
- Mini LED backlight with 2304 local dimming zones
- UltraClear 4K UHD (3840 x 2160) resolution for precision
- Quantum Dot Tech for see-it-to-believe-it colour

### **Designed for the way you work**

- MultiView enables simultaneous dual connection and view
- Hideaway PowerSensor saves up to 80% energy costs
- Colour space mode options to fit your needs and work

# PHILIPS

4K UHD Mini-LED Thunderbolt™ 4 monitor  
Brilliance 7000 27" (68.6 cm), 3840 x 2160 (4K UHD)

27B1U7903/00

# Highlights

## Thunderbolt™ 4 monitor



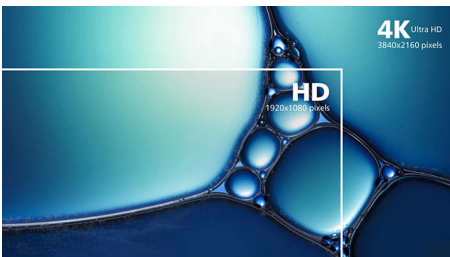
This Philips docking monitor is equipped with Thunderbolt™ 4 connection. Compared with conventional USB-C monitors, Thunderbolt™ 4 technology provides lightning-fast 40 Gbps data transfer speeds, supports high-resolution video, offers multi-stream transport for daisy chaining, has up to 90 W of power delivery to external devices and can provide a stable 1 Gbit/s Ethernet connection.

## Thunderbolt daisy chain setup



Daisy chaining allows you to drive multiple monitors and devices from a single Thunderbolt port on your laptop. From the Thunderbolt port of your laptop, connect to this monitor, then from the second Thunderbolt port on this monitor you can connect to a second 4K monitor.

## UltraClear 4K UHD Resolution



These Philips displays utilise high-performance panels to deliver UltraClear, 4K UHD (3840 x 2160) resolution images. Whether you are a demanding professional requiring extremely

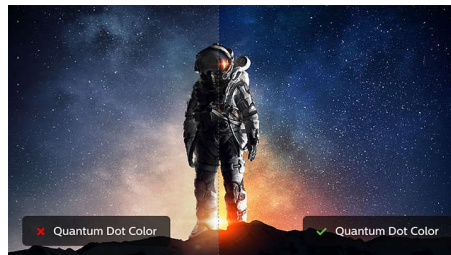
detailed images for CAD solutions, a user of 3D graphics applications or a financial wizard working on huge spreadsheets, Philips displays will make your images and graphics come alive.

## Mini LED backlight



Mini LED backlighting improves control of lighting and contrast ratio. The small size of the mini LEDs forming the backlight allows for the creation of 2304 individually controlled zones delivering deeper blacks and brighter whites. Rich HDR content can now be viewed as it was intended with unmatched contrast and precise reproduction.

## Quantum Dot Technology



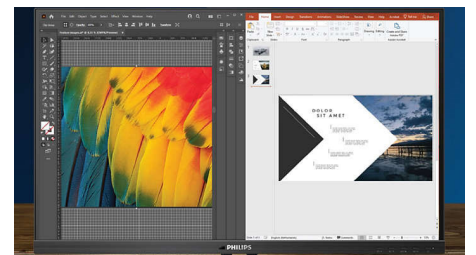
Quantum Dot Technology is an innovative semiconductor nanocrystal technology that precisely emits light to produce bluer blues, greener greens and redder reds. LCD monitors with Quantum Dot colour produce a more dynamic range of colours and show the true natural palette of colours in the picture. The result - vibrant, dynamic, see-it-to-believe-it colour.

## DisplayHDR™ 1400 certified



This Philips monitor is certified with the newly announced VESA DisplayHDR™ 1400 certification level. With a peak brightness up to 1400 nits, increasing in contrast range and a wider colour gamut, this screen brings out details that you've never experienced before with brilliant colours, deeper blacks and brighter whites with ultra-realistic effects. This Philips monitor comes with several HDR modes, each optimised for your viewing preference: HDR Premium, HDR Effect, HDR Warm, HDR Basic and VESA DisplayHDR certified level.

## 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 multitasking.

## Multiple colour space modes

This Philips monitor provides colour in the RGB colour model with the following colour space modes. Choose the appropriate colour space mode to properly display the content you are viewing: sRGB: Most personal computer applications and games, Internet and web design. Adobe RGB: Graphics applications. NTSC: Analogue video. Rec. 709: HD videos. Rec. 2020: UHD videos. DCI-P3: Digital cinema projectors, some films and games, and Apple products. Photography. D-mode: DICOM mode, enhances greyscale level performance.



# Specifications

## Connectivity

- Signal Input: 1 x DisplayPort 1.4, 2 x HDMI 2.0, 1 x Thunderbolt 4 (upstream, data, video, PD 90 W)
- Sync Input: Separate Sync
- Audio (In/Out): Audio out
- RJ45: Ethernet LAN up to 1 G\*, Wake on LAN
- Signal Output: Thunderbolt out: 1 x Thunderbolt 4 (downstream, data, PD 15 W)
- HDCP: HDMI (HDCP 2.2/HDCP 1.4), DisplayPort (HDCP 2.2/HDCP 1.4)
- HBR3: Thunderbolt 4
- USB downstream: 1 x Thunderbolt 4, 4 x USB 3.2 (downstream with 1 fast charge B.C 1.2)\*
- USB upstream: 1 x Thunderbolt 4

## Picture/Display

- Panel Size: 27 inch/68.6 cm
- Aspect ratio: 16:9
- LCD panel type: IPS technology
- Backlight type: Mini LED backlight
- Pixel pitch: 0.1554 x 0.1554 mm
- Brightness: 1000 (SDR), 1400 (HDR) cd/m<sup>2</sup>
- Display colours: Colour support 1.07 billion colours
- Colour gamut (typical): NTSC 121%\*, sRGB 154\*, Adobe RGB 99.2%\*, REC 709 99.1%\*, REC 2020 80.4%\*
- Colour gamut (min.): DCI-P3: 97.2%\*
- Contrast ratio (typical): 1300:1
- SmartContrast: Mega Infinity DCR
- Response time (typical): 4 ms (Grey to Grey)\*
- Viewing angle: 178° (H)/178° (V), @ C/R &gt; 10
- Picture enhancement: SmartImage
- Maximum resolution: 3840 x 2160 @ 60 Hz
- Effective viewing area: 596.736 (H) x 335.664 (V)
- Scanning Frequency: HDMI/DP: 30 - 140 kHz (H)/40 - 60 Hz (V); Thunderbolt 4: 30 - 140 kHz (H)/23 - 75 Hz (V)
- sRGB
- Delta E: < 1
- Pixel Density: 163 PPI

- LowBlue Mode
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- SmartUniformity: 93 ~ 105%
- EasyRead
- Adaptive sync
- HDR: DisplayHDR 1400 certified

## Power Delivery

- Thunderbolt Power Delivery: USB PD version 3.0, 90 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/4.5 A) + 15 W (5 V/3 A)

## Convenience

- Built-in Speakers: 3 W x 2
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7
- User convenience: 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, VESA mount (100 x 100 mm)
- Control software: SmartControl
- MultiView: PBP (2 x devices)

## Stand

- Height adjustment: 130 mm
- Pivot: -/+90 degree
- Swivel: -/+45 degree
- Tilt: -5/15 degree

## Power

- ECO mode: 45.1 W (typ.)
- Power supply: Built-in, 100–240 VAC, 50–60 Hz
- Off mode: Zero watts with Zero switch
- On mode: 74.5 W (typ.)
- 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): 735 x 423 x 285 mm
- Product without stand (mm): 613 x 369 x 68 mm
- Product with stand (max height): 613 x 515 x 204 mm

## Weight

- Product with packaging (kg): 14.46 kg
- Product with stand (kg): 9.43 kg
- Product without stand (kg): 7.02 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, RoHS
- Post-consumer recycled plastic: 35%
- 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, cETLus, CU-EAC, EAEU RoHS, SEMKO, TUV Ergo, TUV/GS

## Cabinet

- Finish: Texture
- Foot: Black

# Specifications

- Front bezel: Black
- Rear cover: Black

## What's in the box?

- Cables: HDMI cable, DisplayPort cable, TBT4

- cable, Power cable
- Monitor with stand
- User Documentation



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- \* "IPS" word mark / trademark and related patents on technologies belong to their respective owners.
- \* Response time value equal to SmartResponse
- \* DCI-P3 Coverage based on CIE1976
- \* NTSC Area based on CIE 1976
- \* sRGB Area based on CIE1931
- \* Adobe RGB Coverage based on CIE 1976
- \* Rec 709 Coverage based on CIE1976
- \* Rec 2020 Coverage based on CIE1976
- \* 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.
- \* Under SDR (Standard Dynamic Range), the temperature range in operation can be reached to 40°C.
- \* The monitor may look different from feature images.