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

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

Vibrant colours, incredible depth, finest details

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

Designed for the way you work

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

PHILIPS

Highlights

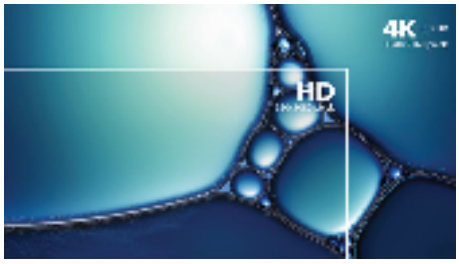
Thunderbolt™ 4 monitor

This Philips docking monitor is one of the world's first Thunderbolt™ 4 monitors with USB4 compliance. Compared with conventional USB-C monitors, Thunderbolt™ 4 technology provides lightning-fast 40 Gbps data transfer speeds, supplying high-resolution video, multi-stream transport for daisy chaining, up to 90 W power delivery for devices and a stable 1 Gbit/s Ethernet connection, all through a single cable. Thunderbolt™ 4 delivers a slim, reversible, one-cable USB-C docking solution to create a sleek, clutter-free desktop, greatly boosting productivity.

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.

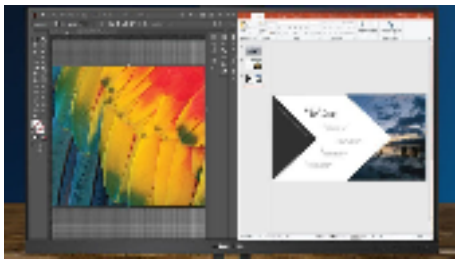
Quantum Dot Technology

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.

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

27B1U7903/01

Specifications

Picture/Display
- LCD panel type: IPS technology
- Backlight type: Mini LED backlight
- Panel Size: 27 inch/68.6 cm
- Display Screen Coating: Anti-Glare, 3H, Haze 25%
- Effective viewing area: 596.736 (H) x 335.664 (V)
- Aspect ratio: 16:9
- Maximum resolution: 3840 x 2160 @ 60 Hz
- Pixel Density: 163 PPI
- Response time (typical): 4 ms (Grey to Grey)*
- Brightness: 1000 (SDR), 1400 (HDR) cd/m²
- Contrast ratio (typical): 1300:1
- SmartContrast: Mega Infinity DCR
- Pixel pitch: 0.1554 x 0.1554 mm
- Viewing angle: 178° (H)/178° (V), @ C/R > 10
- Picture enhancement: SmartImage
- Display colours: Colour support 1.07 billion colours
- Colour gamut (min.): DCI-P3: 97.2%*
- Colour gamut (typical): NTSC 121%*, sRGB 154*, Adobe RGB 99.2%*, REC 709 99.1%*, REC 2020 80.4%*
- HDR: DisplayHDR 1400 certified
- Scanning Frequency: HDMI/DP: 30 - 140 kHz (H)/ 40 - 60 Hz (V); Thunderbolt 4: 30 - 140 kHz (H)/ 23 - 75 Hz (V)
- SmartUniformity: 93 ~ 105%
- Delta E: < 1
- sRGB
- LowBlue Mode
- EasyRead
- Adaptive sync

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

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
- MultiView: PBP (2 x devices)
- User convenience: SmartImage, Input, User, Menu, Power On/Off
- Control software: SmartControl
- 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)
- Plug and Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 10 / 8.1 / 8 / 7

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

Power
- ECO mode: 45.1 W (typ.)
- On mode: 74.5 W (typ.)
- Standby mode: 0.3 W (typ.)
- Off mode: Zero watts with Zero switch
- Energy Label Class: G
- Power LED indicator: Operation - White, Standby mode - White (flashing)
- Power supply: Built-in, 100–240 VAC, 50–60 Hz

Dimensions
- Product with stand (max height): 613 x 515 x 204 mm
- Product without stand (mm): 613 x 369 x 68 mm
- Packaging in mm (W x H x D): 735 x 423 x 285 mm

Weight
- Product with stand (kg): 9.43 kg
- Product without stand (kg): 7.02 kg
- Product with packaging (kg): 14.46 kg

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

Sustainability
- Environmental and energy: PowerSensor, LightSensor, RoHS
- Recyclable packaging material: 100 %
- Post-consumer recycled plastic: 35%
- 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
- Front bezel: Black
- Rear cover: Black
- Foot: Black
- Finish: Texture

What's in the box?
- Monitor with stand
- Cables: HDMI cable, DisplayPort cable, TBT4 cable, Power cable
- User Documentation

* "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.

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