

PHILIPS

4K UHD Mini-LED
Thunderbolt™ 4 monitor

Professional 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
- Delivers up to 90 W of power for devices on a single port
- Lightning-fast connectivity for data, video and Ethernet

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

Professional Monitor

4K UHD Mini-LED Thunderbolt™ 4 monitor

27B1U7903/01

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

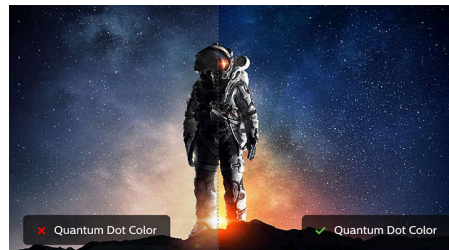
demanding professional requiring extremely detailed images for CAD solutions, a user of 3D graphics applications or a financial wizard working on huge spreadsheets, Philips displays will make your images and graphics come alive.

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



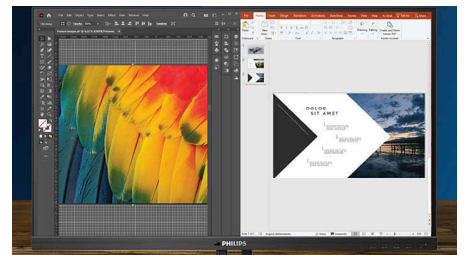
Quantum Dot Technology is an innovative semiconductor nanocrystal technology that precisely emits light to produce bluer blues, greener greens and redder reds. LCD monitors with Quantum Dot colour produce a more dynamic range of colours and show the true natural palette of colours in the picture. The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



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Highlights

Multiple colour space modes

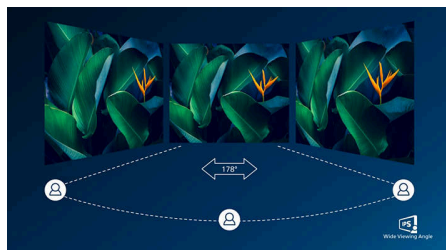
This Phillips monitor provides colour in the RGB colour model with the following colour space modes. Choose the appropriate colour space mode to properly display the content you are viewing: sRGB: Most personal computer applications and games, Internet and web design. Adobe RGB: Graphics applications. 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.

Hideaway 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. The new Hideaway PowerSensor can be folded out of the way for multiple monitor tiling set-ups.

IPS technology



IPS displays use advanced technology that gives you extra-wide viewing angles of 178/178 degrees, making it possible to view the display

from almost any angle — even in 90-degree Pivot mode! Unlike standard TN panels, IPS displays gives you remarkably crisp images with vivid colours, making it ideal not only for Photos, films and web browsing, but also for professional applications that demand colour accuracy and consistent brightness at all times.



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Specifications

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/m²
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 > 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

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

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
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



* "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.