4K UHD Mini-LED Thunderbolt™ 4 monitor

- Brilliance 7000
- 27" (68.6 cm)
- 3840 x 2160 (4K UHD)

27B1U7903/89

Simply brilliant

Mini LED with Thunderbolt docking

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 color accuracy for color-critical users.

Benefits

Thunderbolt™ 4 port for flexibility & performance

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

Vibrant colors, incredible depth, finest details

- UltraClear 4K UHD (3840x2160) resolution for precision
- Mini LED backlight with 2304 local dimming zones
- Quantum Dot Tech for see-it-to-believe-it color
- DisplayHDR™ 1400 delivers impressive color, and contrast
- IPS technology for full colors and wide viewing angles

Designed for the way you work

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

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PHILIPS

Features

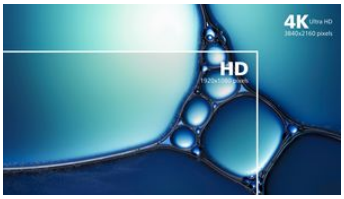
Thunderbolt™ 4 monitor

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

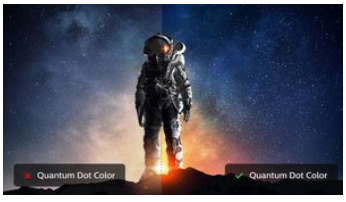


These Philips displays utilize high performance panels to deliver UltraClear, 4K UHD (3840 x 2160) resolution images. Whether you are demanding professional requiring extremely detailed images for CAD solutions, using 3D graphics applications or a financial wizard working on huge spreadsheets, Philips 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

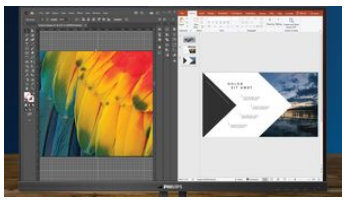


Quantum Dot Technology is an innovative semiconductor nanocrystal technology that precisely emits light to produce bluer blues, greener greens and redder reds. LCD monitors with Quantum Dot color produce a more dynamic range of colors and show the true natural palette of colors in the picture. The result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

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 color gamut, this screen brings out details that you've never experienced before with brilliant colors, deeper blacks and brighter whites with ultra-realistic effects. This Philips monitor comes with several HDR modes, each optimized 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 multi-tasking.

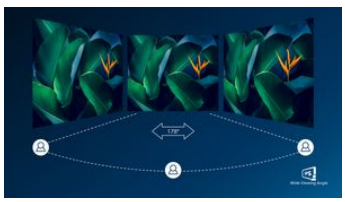
Multiple color space modes

This Phillips monitor provides color in the RGB color model with the following color space modes. Choose the appropriate color 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: Analog video. Rec. 709: HD videos. Rec. 2020: UHD videos. DCI-P3: Digital cinema projectors, some movies and games, and Apple products. Photography. D-mode: DICOM mode, enhance 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 then 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 an advanced technology which gives you extra wide viewing angles of 178/178 degree, 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 colors, making it ideal not only for Photos, movies and web browsing, but also for professional applications which demand color accuracy and consistent brightness at all times.

Specifications

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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 (Gray to Gray)*
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 colors	Color support 1.07 billion colors
Color gamut (min.)	DCI-P3: 97.2%*
Color 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	Yes
LowBlue Mode	Yes
EasyRead	Yes
Adaptive sync	Yes

Connectivity

Signal Input	1 x DisplayPort 1.4, 2 x HDMI 2.0, 1 x Thunderbolt 4 (upstream, data, video, PD 90W)
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 15W)
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 1G*, Wake on LAN
Sync Input	Separate Sync

Power Delivery

Thunderbolt Power Delivery	USB PD version 3.0, 90W (5V/3A, 7V/3A, 9V/3A, 10V/3A, 12V/3A, 15V/3A, 20V/4.5A) + 15W (5V/3A)

Convenience

Built-in Speakers	3 W x 2
MultiView	PBP (2x 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 (100x100mm)
Plug & 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
Power LED indicator	Operation - White Standby mode- White (blinking)
Power supply	Built-in 100-240VAC, 50-60Hz

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 (WxHxD)	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: +12,000ft (3,658m), Non-operation: +40,000ft (12,192m)
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 TUV Ergo TUV/GS

Cabinet

Front bezel	Black
Rear cover	Black
Foot	Black
Finish	Texture

* "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 CIE1976
* sRGB Area based on CIE1931
* Adobe RGB Coverage based on CIE1976
* 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, 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.
* Under SDR (Standard Dynamic Range), the temperature range in operation can be reached to 40°C.
* The monitor may look different from feature images.

data subject to change
2023, October 5

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