



W34KB Liquid Crystal Display Monitor

## User Guide



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Enterprise management No.: GVT2021008

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# Product Features

The W34KB monitor adopts active matrix technology, thin-film transistor (TFT) and HVA liquid crystal display panel.

Monitor features include:

- Viewable area (34 inches, measured diagonally)

Resolution: 5120 × 2160 (21:9 aspect ratio), up to 11 million pixels, 163 PPI

- New-generation Fast HVA wide-gamut fast-response panel
- Peak brightness: up to 450 nits
- Maximum contrast ratio: 3300:1
- Dual-mode refresh rate: 180–360 Hz (180 Hz under WUHD mode / 360 Hz under WFHD mode)
- Color gamut coverage: 99% sRGB, 98% DCI-P3

Equipped with an upgraded color management engine; supports gamut limiting, M-BOOK mode and grayscale display mode

- Digital interfaces: USB Type-C (40 Gbps), HDMI 2.1 (48 Gbps), DisplayPort 1.4 (32 Gbps)

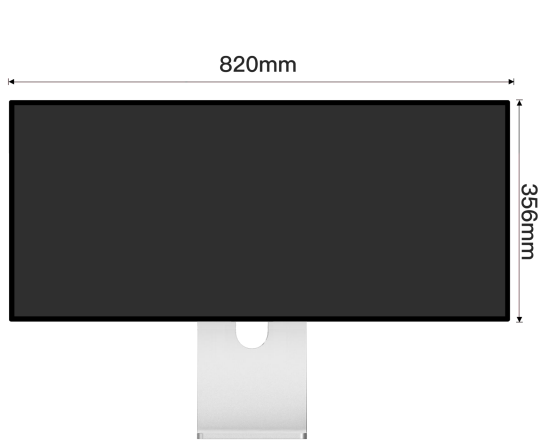
Compatible with Thunderbolt 4/5 on Mac devices and DSC input via HDMI 2.1

- The USB Type-C cable delivers power to compatible laptops via USB Power Delivery protocol (up to 100 W), while transmitting video and data signals; compatible with Thunderbolt 4/5 and USB4
- Detachable stand with VESA™ 100 mm mounting holes compliant with Video Electronics Standards Association
- Built with 2 downstream USB Type-C data ports
- Supports HDR, blue light filtering, OD overdrive response, VRR variable refresh rate
- $\Delta E$ -Delta-E <2
- Built-in stereo dual-channel speakers

## Specifications

| <i><b>Kuycon W34KB</b></i> |                                      |                   |                                          |
|----------------------------|--------------------------------------|-------------------|------------------------------------------|
| Product Name               | Gaming LCD Monitor                   | Color Gamut       | 99% <i>s</i> RGB 98%DCI-P3               |
| Screen Size                | 34 Inches                            | Brightness        | Full Screen 450cd/m <sup>2</sup>         |
| Aspect Ratio               | 21:9                                 | Contrast Ratio    | 3300:1                                   |
| Panel Type                 | Fast HVA                             | Response Time     | GTG 1ms                                  |
| Resolution                 | 5120x2160                            | Screen Coating    | High-transmittance glass                 |
| Pixel Density              | 163PPI                               | Operating Voltage | AC 100-240V                              |
| Refresh Rate               | 180-360Hz                            | Power Consumption | Typical: 55W, Max: 165W                  |
| Color Depth Support        | 10-bit, 1.07 Billion Colors          | Other Features    | USB-HUB                                  |
| HDR                        | HDR600                               | Panel Surface     | Four-sided equal-width bezel panel       |
| Body Material              | 6063 Aluminum Alloy CNC              | USB               | USB2.0                                   |
| Body Craft                 | 180-mesh sandblasting with anodizing | Stand Type        | VESA 100mm*100mm                         |
| Weight                     | 6.55KG(Body only, stand excluded)    | Stand Functions   | Height adjustment & multi-angle rotation |
| HDMI                       | HDMI2.1 FRL48Gbps                    | Power Adapter     | Built-in Power Supply                    |
| DP                         | DP1.4 HBR3 32Gbps                    | Remote Control    | IR Remote Control (with battery)         |
| USB-C                      | USB-C 40Gbps 【PD100W】                | User Manual       | Paper User Manual*1                      |

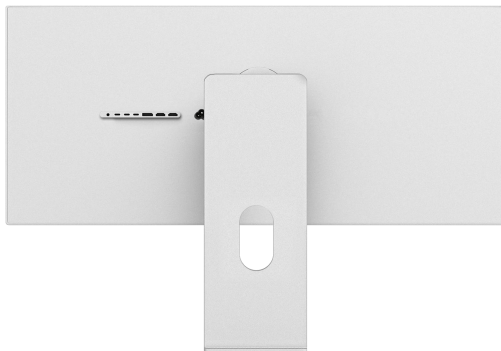
## Views



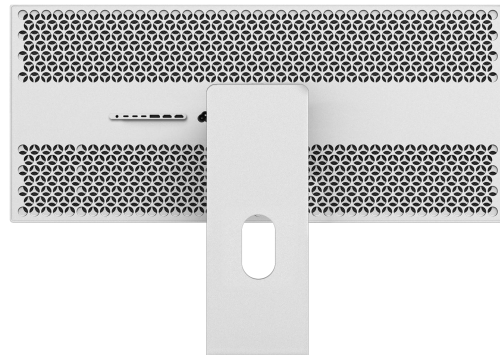
Front View



Side View



Rear View (Simplified Version)



Rear view (vented design)

Dimensions (H×W×D) = 356mm\*820mm\*22mm Weight=6.55KG (excluding stand)

\*Appearance data may have production tolerances due to measurement variations.

# Resolution Specifications

| Model                       | W34KB                                                   |
|-----------------------------|---------------------------------------------------------|
| Horizontal Scan Range       | 88 kHz to 255 kHz(Auto)                                 |
| Vertical Scan Range         | 60 kHz to 255 kHz(Auto)                                 |
| Maximum Resolution          | 5120x2160 180Hz                                         |
| HDMI Supported Video Modes  | 480p、 480i、 576p、 576i、 720p、 1080i、 1080p、 QHD、 UHD 4K |
| DP Supported Video Modes    | 480p、 480i、 576p、 576i、 720p、 1080i、 1080p、 QHD、 UHD    |
| USB-C Supported Video Modes | 480p、 480i、 576p、 576i、 720p、 1080i、 1080p、 QHD、 UHD    |

Note: The resolution of 5120x2160@180Hz of this display needs to be supported by new GPU via Displayport 1.4/2.1 or HDMI2.1 FRL.

\*It is recommended to connect the monitor via DP or USB-C port, compatible with new Thunderbolt™4/5 and USB4 devices.

## Windows Operating System

| 显示器信息                                            |                    |
|--------------------------------------------------|--------------------|
| Kuycon P32T<br>显示器 1: 已连接到 Intel(R) UHD Graphics |                    |
| 桌面模式                                             | 3840 × 2160, 160Hz |
| 活动信号模式                                           | 3840 × 2160, 160Hz |
| 位深度                                              | 10 位               |
| 颜色格式                                             | RGB                |
| 颜色空间                                             | 标准动态范围(SDR)        |
| HDR 认证                                           | 未找到 有关 HDR 认证的详细信息 |
| 显示器 1 的显示适配器属性                                   |                    |

## MacOS Operating System

| Apple M1:   |                                    |
|-------------|------------------------------------|
| 芯片组型号:      | Apple M1                           |
| 类型:         | GPU                                |
| 总线:         | 内建                                 |
| 核总数:        | 7                                  |
| 供应商:        | Apple (0x106b)                     |
| Metal 支持:   | Metal 3                            |
| 显示器:        |                                    |
| Kuycon P32K |                                    |
| 分辨率:        | 3840 x 2160 (2160p/4K UHD 1 - 超高清) |
| UI 看起来类似:   | 1920 x 1080 @ 144.00Hz             |
| 镜像:         | 关                                  |
| 联机:         | 是                                  |
| 旋转:         | 支持                                 |

\*Other operating systems require GPU drivers from graphics card manufacturers to support HBR3 video mode output and DSC technology

## Packaging



## Universal Interfaces

|                          |                                                                                   |                                                                        |
|--------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------|
| USB-C Upstream Port x1   |  | Maximum Supported Resolution 5120x2160 180Hz<br>HDR<br>HBR3(HDCP2.3)   |
| USB-C Downstream Port x2 |  | USB Downstream Data Expansion 480Mbps<br>(5V 2A Power Delivery)        |
| DisplayPort x1           |  | Maximum Supported Resolution 5120x2160 180Hz<br>HDR<br>HBR3(HDCP2.3)   |
| HDMI2.1 x2               |  | Maximum Supported Resolution 5120x2160 180Hz<br>HDR<br>48Gbps(HDCP2.3) |

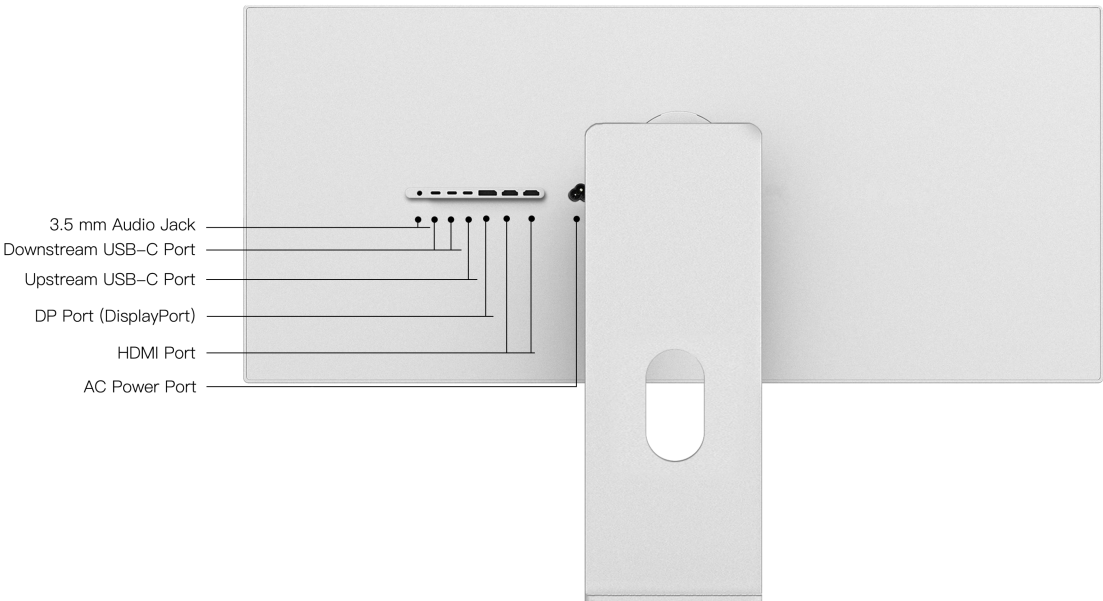
\*USB-C Upstream Port, USB-Power Delivery compliant

|                                          |                               |              |
|------------------------------------------|-------------------------------|--------------|
| PD3.0                                    | 100.00W                       | 3.30-3.25    |
| 5.0472v                                  |                               | 0.0000 A     |
|                                          |                               | 0.0000 W     |
| <input type="checkbox"/>                 | 1                             | 5.00V 3.00A  |
| <input type="checkbox"/> -1V             | 2                             | 9.00V 3.00A  |
| <input type="checkbox"/> +1V             | 3                             | 12.00V 3.00A |
| <input type="checkbox"/> -20mV           | 4                             | 15.00V 3.00A |
| <input type="checkbox"/> +20mV           | 5                             | 20.00V 5.00A |
| <input checked="" type="checkbox"/> back | <input type="checkbox"/> exit |              |

| PDO Output Levels | 5V-3A | 9V-3A | 12V-3A | 15V-3A | 20V-5A |
|-------------------|-------|-------|--------|--------|--------|
|-------------------|-------|-------|--------|--------|--------|

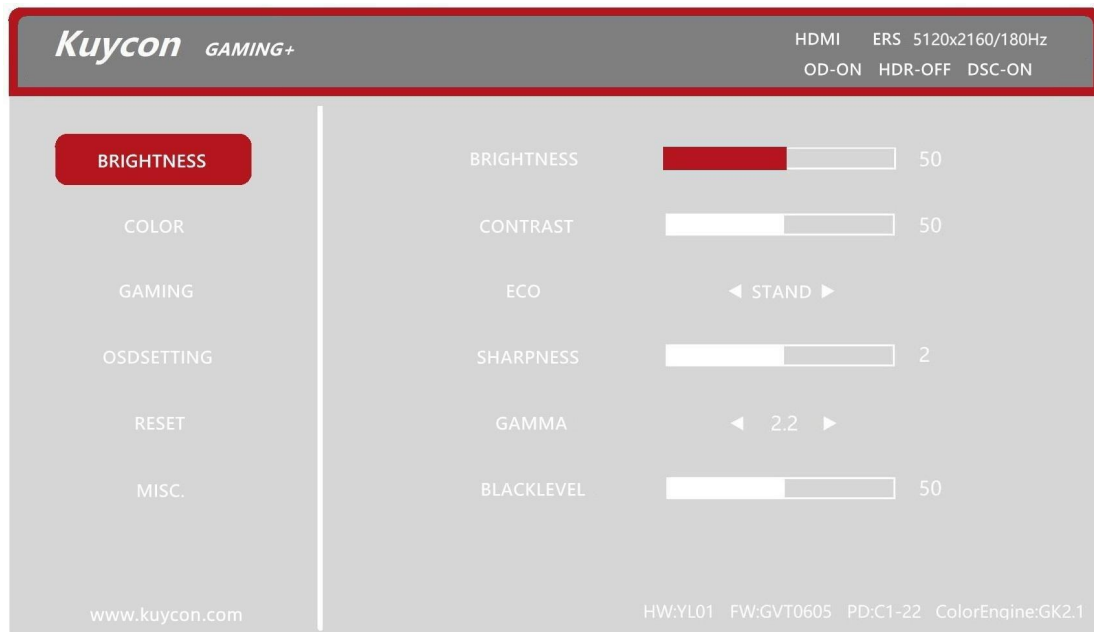
# Monitor Settings

1. Connect the AC power cable 2. Connect the video signal 3. Connect USB peripheral devices

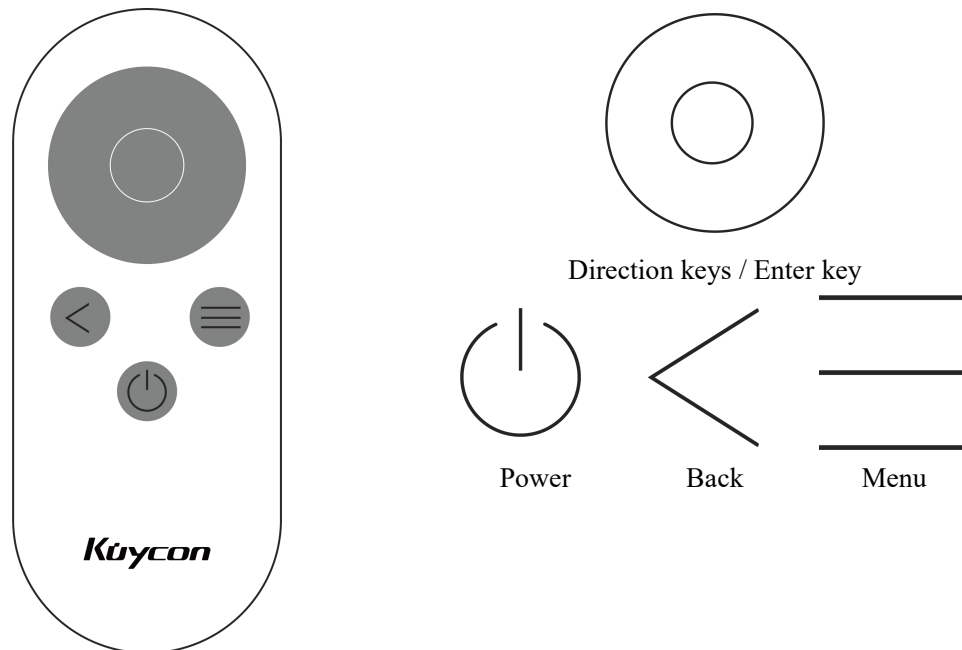


| 1           | 2                           | 3                           | 4                         | 5  | 6    | 7    | 8        |
|-------------|-----------------------------|-----------------------------|---------------------------|----|------|------|----------|
| 3.5mm Audio | USB-C<br>Downstream<br>Port | USB-C<br>Downstream<br>Port | USB-C<br>Upstream<br>Port | DP | HDMI | HDMI | AC Input |

# Operating Instructions (OSD)



## Instructions



Note: The graphical OSD can be set to transparent. For remote control models, only the power key and status indicator light are retained.

Quick functions: Back key = Quick input source switching, Left directional key = One-click dual-mode switch, Right directional key = Volume adjustment, Up & down directional keys = Brightness adjustment

# Installation Instructions

- Open the packaging box and remove the buffer layer

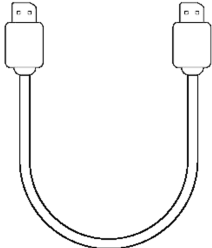
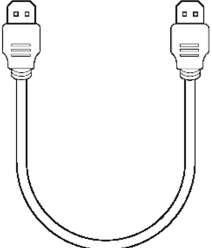
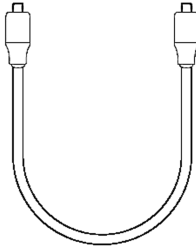
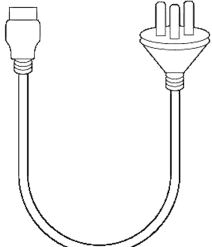
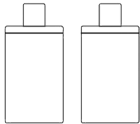
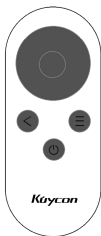


- Take out the stand and install it according to the VESA standard.



\* When installing the stand, lay the panel face-down on a soft, cushioning material to avoid panel damage caused by pressure.

## Accessories

|                                                                                     |                                                                                    |                                                                                      |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |   |   |
| <b>Displayport Cable 1.5m x 1</b>                                                   | <b>HDMI Cable 1.5m x 1</b>                                                         | <b>USB-C Cable 1m x 1</b>                                                            |
|   |  |  |
| <b>AC Cable 1.8m x 1</b>                                                            | <b>Paper User Manual x 1</b>                                                       | <b>USB-C OTG Adapter x 2</b>                                                         |
|  |                                                                                    |                                                                                      |
| <b>Infrared Remote Control x 1</b>                                                  |                                                                                    |                                                                                      |

## Safety Instructions

I. The W34KB monitor is constructed entirely of aluminum alloy. During use, users must ensure the AC power cord is plugged into a power socket with reliable grounding connection.



II. The internal power electronic components of the W34KB monitor adopt contact passive heat dissipation via the chassis. The chassis will feel warm during operation. Please pay attention to heat dissipation around the monitor when the PD fast charging outputs full power.



III. The front of the monitor features an all-glass structure. Avoid knocks and impacts from hard objects during use to prevent cracking or shattering.



IV. When carrying out routine maintenance and cleaning, do not use highly corrosive solutions to clean the coating on the monitor panel.



# FAQ

## Hardware Platform Compatibility

The DP and USB-C ports of the W34KB monitor accept 5K 180Hz input signals through DP 1.4 HBR3 with DSC, as well as DP 2.1 UHBR10 / UHBR13.5 / UHBR20, all supported by a single cable. HDMI 2.1 FRL with 48Gbps bandwidth supports a maximum resolution of 5K 180Hz. The compatible hardware platforms for 5K 180Hz resolution are listed below.

### Nvidia

|                               |                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------|
| Maxwell Architecture GPU      | Not supported                                                                                           |
| Pascal Architecture GPU       | Not supported                                                                                           |
| Turing Architecture GPU       | GTX1650-RTX2080Ti(Graphics cards equipped with USB-C VRlink allow direct connection via a Type-C cable) |
| Ampere Architecture GPU       | RTX3050-3090                                                                                            |
| Ada Lovelace Architecture GPU | RTX4060-4090                                                                                            |
| Blackwell Architecture GPU    | RTX5060-5090(It can work under DP 2.1 UHBR20 mode for uncompressed input)                               |

### AMD

|                             |                          |
|-----------------------------|--------------------------|
| Polaris Architecture GPU    | Not supported            |
| VEGA Architecture APU GPU   | Not supported            |
| RNDA-RNDA3 Architecture GPU | RedeonR7、RX5500-RX6900XT |
| RNDA4 Architecture GPU      | RX7700-RX9070XT          |

### Intel

|                                          |                                                                                         |
|------------------------------------------|-----------------------------------------------------------------------------------------|
| 10th Gen Mobile Platform UHD iGPU        | Not supported                                                                           |
| 11th Gen Mobile Platform Tiger Lake iGPU | Iris Xe (Direct Type-C cable connection available with Thunderbolt 3)                   |
| UHD730/750/770 iGPU                      | 4K144Hz(Devices equipped with Thunderbolt 4 support direct connection via Type-C cable) |
| Intel Arc iGPU                           | All support 4K 160Hz and can run uncompressed input under DP 2.1 UHBR13.5 mode.         |

### Mac

|                                            |                                                                                                                                |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Apple MAC AMD dGPU                         | Not supported                                                                                                                  |
| Apple MAC Intel Integrated Graphics Series | Models equipped with Intel 10th Gen CPUs released after 2020 support 6K 60Hz via direct single-cable Thunderbolt 3 connection. |
| Apple MAC M1-M4 Integrated Graphics Series | All models support direct single-cable connection at 4K 144Hz via Thunderbolt 4/5.                                             |
| Apple iPad Pro Series                      | All models support direct single-cable connection at 4K 144Hz via Thunderbolt 4/5.                                             |
| Apple iMac MacMini Series                  | All models released after 2021 support 4K 160Hz                                                                                |

## Phone/Pad

### Mobile Phones / Tablets

Nintendo SWITCH, Huawei MATE/P series, Smartisan series, Samsung S/NOTE series all support same-screen display or PC mode

## Other

### Other Devices

Sony PS4 Pro / PS5 and Microsoft Xbox series support 4K@60HZ HDR via HDMI

## Full-Featured USB-Type-C Interface & Thunderbolt 4/5 USB4

The USB-C port of the W34KB monitor transmits video via DP Alt Mode protocol, together with USB data transmission, and supports PD reverse fast charging. This port has been updated to be compatible with Thunderbolt 4, Thunderbolt 5 and USB4 protocols. When connecting to a Thunderbolt 4/5 or USB4 port, whether 4K 160Hz resolution can be enabled depends on the GPU port connected to the computer's USB-C port. Users may verify compatibility via two checks: confirm the port supports video output, and confirm the GPU at minimum supports DisplayPort 1.4 with DSC or newer standards. A bandwidth of roughly 29Gbps is required to transmit 4K 160Hz video signals over a USB-C cable, which imposes strict requirements on cable signal transmission performance. Cables complying with USB 3.1 Gen 2, USB 3.2 Gen 2 or USB4 standards are necessary. Ensure cables and ports are well-constructed with reliable quality to prevent malfunctions. For devices requiring 100W reverse power supply, purchase 5A cables embedded with an E-Marker chip.

## MacOS Compatibility

The W34KB monitor achieves full compatibility with all Mac devices. For Macs equipped with Apple Silicon M-series chips, Thunderbolt 4/5 and HDMI 2.1 ports connected to the built-in GPU support full-gamut display at 4K 160Hz. The USB-C port accepts uncompressed full-gamut input at 80Gbps via the Thunderbolt 5 port of M4-series chips. The monitor is compatible with macOS HiDPI scaling. All MacBook models support 100W PD fast charging. It also supports quick switching and wake-up functions when multiple Mac devices are connected. The USB-C ports of older Apple Silicon M1/M2/M3 chips only support a maximum refresh rate of 144Hz.

## HDR Function Compatibility

The HDR function of the W34KB monitor is set to Auto by default and can be manually turned off. The HDMI port conforms to the HDMI 2.1 and VESA HDR10 specifications. The DP and USB-C ports support HDR and comply with the VESA HDR10 standard. HDR is available on Windows 10, which requires a compatible graphics card and Windows 10 Version 1803 or later. On Windows, HDR is activated by media players or games, and the monitor automatically switches to HDR display mode. A black screen lasting 1 to 2 seconds during mode switching is normal. On macOS, users can enable the High Dynamic Range option in System Display Settings to detect HDR compatibility based on hardware support. HDR cannot be enabled on some Apple Mac models.

\*

Manually turning on the HDR function in system display settings will lead to visible differences between the screen image and normal display, which is normal.

When HDR is enabled for high-dynamic-range content playback, the monitor backlight remains at its default operating state, and brightness can be adjusted manually.

After exiting HDR videos or HDR games, the monitor will automatically revert to default settings.

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2026.07.14 by Ehen