



P32T Liquid Crystal Display Monitor

User Guide



Copyright © Guangzhou Kuycon Electronic Technology Co., Ltd. All rights reserved. Kuycon and Gravity are trademarks of Guangzhou Kuycon Electronic Technology Co., Ltd.

Enterprise management No.: GVT2021008

Contents

1. Product Features
2. Specifications
3. Views
4. Resolution Specifications
5. Packaging
6. Universal Interfaces
7. Monitor Settings
8. Operating instructions (OSD)
9. Installation Instructions
10. Accessories
11. Safety Instructions
12. FAQ

Product Features

The P32T monitor adopts active matrix technology with Thin Film Transistor (TFT) and IPS liquid crystal display panel.

Monitor features include:

- 31.5-inch visible area (measured diagonally)
3840 x 2160(16:9) resolution, up to 8.29 million pixels, 139PPI
- New-generation Fast IPS wide-gamut high-speed panel
- Brightness: Up to 500 nits
- Contrast Ratio: Maximum 1000:1
- Dual-mode refresh rate: 160–320Hz(160Hz in UHD mode / 320Hz in FHD mode)
- Color Gamut Coverage: 99% sRGB, 98% DCI-P3

Equipped with a new color management engine, supporting gamut restriction, M-BOOK mode and grayscale display mode.

- Digital connectivity: USB Type-C (40Gbps), HDMI 2.1 (48Gbps), DisplayPort 1.4 (32Gbps)
Compatible with Thunderbolt 4/5 and HDMI 2.1 DSC input for Mac devices.
- USB Type-C cable supports up to 100W power delivery to compatible laptops via USB-PD protocol, while transmitting video and data signals simultaneously; compatible with Thunderbolt 4/5 and USB4.
- Detachable stand and VESA™ 100mm mounting holes
- Equipped with 2 downstream USB Type-C data expansion ports
- Built-in support for HDR, Low Blue Light, OD overdrive response and VRR (Variable Refresh Rate)
- ΔE -Delta-E <2
- Integrated built-in stereo dual-channel speakers

Specifications

<i>Kuycon P32T</i>			
Product Name	Gaming LCD Monitor	Color Gamut	99% <i>s</i> RGB 98%DCI-P3
Screen Size	31.5 Inches	Brightness	Full Screen 500cd/m ²
Aspect Ratio	16:9	Contrast Ratio	1000:1
Panel Type	Fast IPS	Response Time	GTG 1ms
Resolution	3840x2160	Screen Coating	AR Mirror Finish
Pixel Density	139PPI	Operating Voltage	AC 100-240V
Refresh Rate	160-320Hz	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 Bezel Panel
Body	6063 Aluminum Alloy CNC	USB	USB2.0
Body Craftsmanship	180-grit sandblasting & anodizing	Stand Type	VESA 100mm*100mm
Weight	6.5KG(Body only, stand excluded)	Stand Functions	Height Adjustable & 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 Product User Manual*1

Views



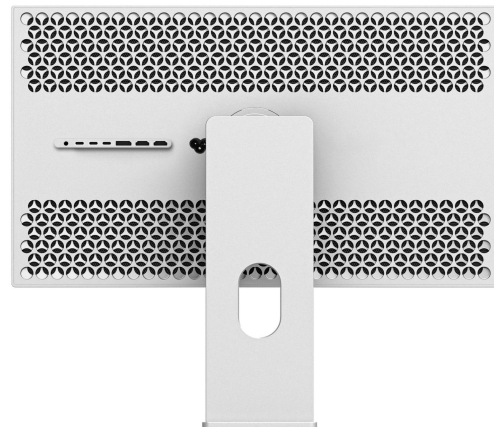
Front View



Side View



Rear View (Simplified Version)



Rear View (Perforated Model)

Dimensions (H×W×D) =413mm*716mm*22mm Weight=6.5KG (excluding stand)

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

Resolution Specifications

Model	P32T
Horizontal Scan Range	88 kHz to 255 kHz(Auto)
Vertical Scan Range	60 kHz to 255 kHz(Auto)
Maximum Resolution	3840x2160 240Hz
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 3840x2160@160Hz of this display needs to be supported by new GPU via Displayport 1.4&DSC/2.1or 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 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 manufacturer graphics card driver support for HBR3 video mode output and compatibility with DSC technology.

Packaging



Universal Interfaces

USB-C Upstream Port x1		Maximum Supported Resolution 3840x2160 160Hz HDR HBR3 (HDCP2.3)
USB-C Downstream Port x2		USB Downstream Data Expansion 480Mbps (5V 2A Power Delivery)
DisplayPort x1		Maximum Supported Resolution 3840x2160 160HzHDR HBR3 (HDCP2.3)
HDMI2.1 x2		Maximum Supported Resolution 3840x2160 160Hz HDR 48Gbps (HDCP2.3)

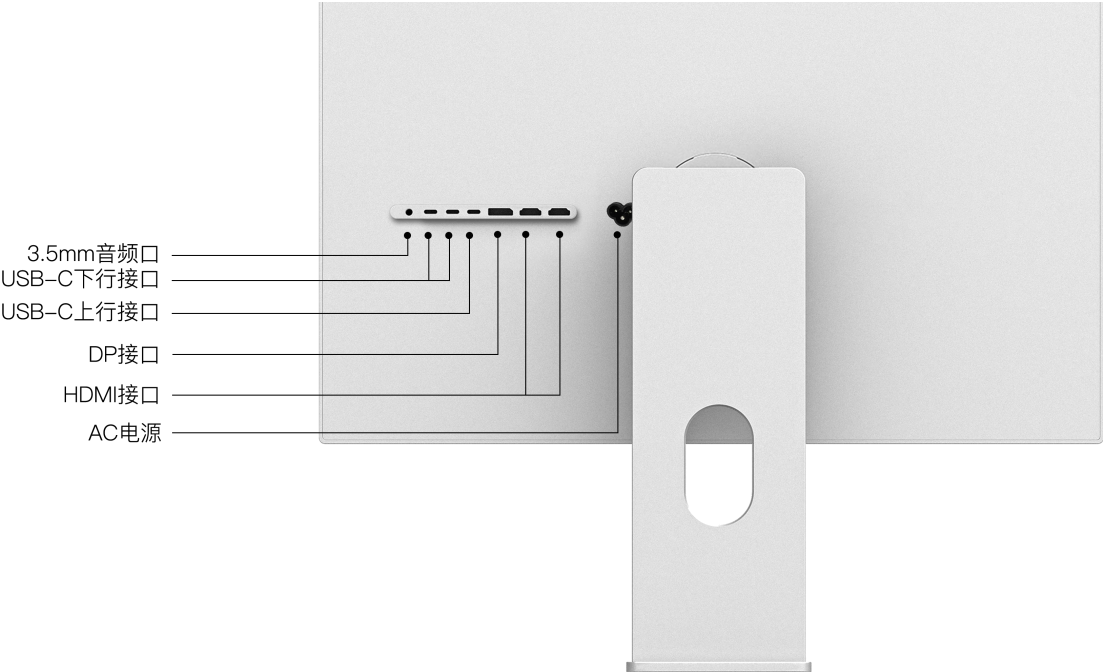
*USB-C Upstream Port, USB-Power Delivery compliant

PD3.0	100.00W	3.30-3.25
5.0472v		0.0000 A
		0.0000 W
☐	1	5.00V 3.00A
☐ -1V	2	9.00V 3.00A
☐ +1V	3	12.00V 3.00A
☐ -20mV	4	15.00V 3.00A
☐ +20mV	5	20.00V 5.00A
☒ back	☐ exit	

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

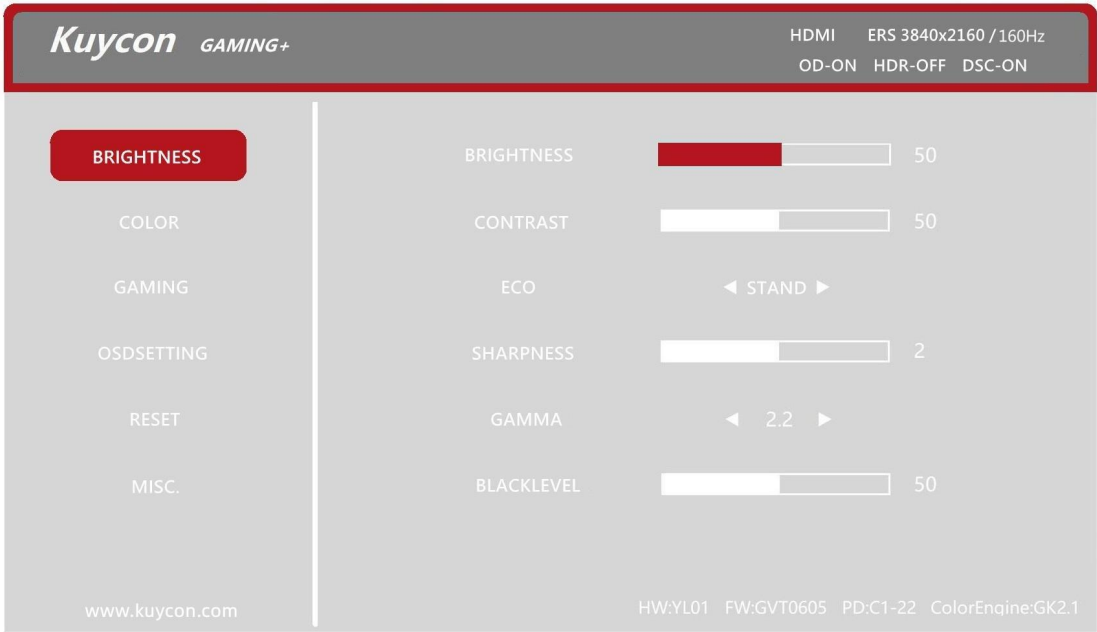
Monitor Settings

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 Downstream Port	USB-C Downstream Port	USB-C Upstream Port	DP	HDMI	HDMI	AC Input

Operating Instructions (OSD)



Instructions



Note: The graphical OSD allows transparency adjustment. The remote-control version model only retains the power button and status indicator light.

Shortcut Functions: Return key = Quick input source switching, Left direction key = One-click dual-mode switching, Right direction key = Volume adjustment, Up/Down direction keys = Brightness adjustment

Installation Instructions

- Open the packaging box and remove the buffer layer

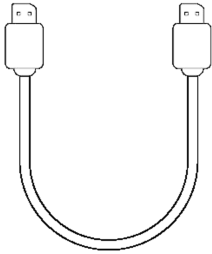


- Take out the stand and install it according to the VESA standard.

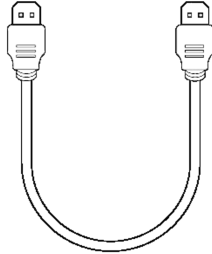


* When installing the stand, lay the panel face-down on a soft, cushioning material to avoid panel damage caused by pressure.

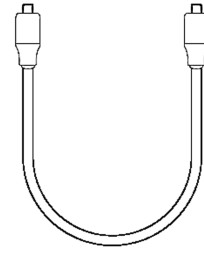
Accessories



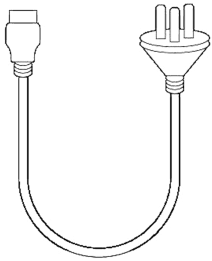
Displayport Cable 1.5m x 1



HDMI Cable 1.5m x 1



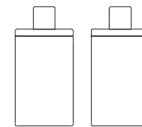
USB-C Cable 1m x 1



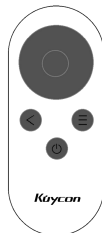
AC Cable 1.8m x 1



Paper User Manual x 1



USB-C OTG Adapter x 2



Infrared Remote Control x1

Safety Instructions

I. The P32T monitor adopts an all-aluminum alloy metal construction. When in use, please connect the AC power cord to a power socket with reliable grounding.



II. The internal power electronic components of the P32T monitor adopt contact passive heat dissipation through the chassis. The chassis will feel warm during operation. When the PD fast charging outputs at full power, please ensure proper heat dissipation of the surrounding environment.



III. The front panel of the monitor adopts full glass structure. Please avoid hitting or colliding with hard objects during use, so as to prevent cracking or damage.



IV. When performing daily maintenance and cleaning on the monitor panel coating, please refrain from using highly corrosive solutions.



FAQ

Hardware Platform Compatibility

The DP and USB-C ports of the P32T monitor support 4K 160Hz signal input via DP 1.4 HBR3 DSC and DP2.1 UHBR10 / UHBR13.5 / UHBR20 modes with one-cable connectivity. The HDMI2.1 FRL 48Gbps interface supports a maximum resolution of 4K 160Hz. Hardware platforms supporting 4K 160Hz resolution are listed below:

Nvidia

Maxwell Architecture GPU	Not Support
Pascal Architecture GPU	Not Support
Turing Architecture GPU	GTX1650-RTX2080TI(Graphics cards equipped with USB-C VRLink support direct connection via a Type-C cable)
Ampere Architecture GPU	RTX3050-3090
Ada Lovelace Architecture GPU	RTX4060-4090
Blackwell Architecture GPU	RTX5060-5090(It supports uncompressed input under DP2.1 UHBR20 mode)

AMD

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

Intel

10th Gen Mobile Platform UHD iGPU	Not Support
11th Platform Tiger Lake iGPU	Iris Xe(Devices with Thunderbolt 3 support direct connection via a Type-C cable)
UHD730/750/770 iGPU	4K144Hz(Devices with Thunderbolt 4 support direct connection via a Type-C cable)
Intel Arc dGPU	All support 4K 160Hz (capable of uncompressed input in DP2.1 UHBR13.5 mode)

Mac

Apple MAC AMD dGPU Series	Not Support
Apple MAC Intel iGPU Series	All models equipped with Intel 10th Gen cores released after the 2020 version support 6K 60Hz one-cable direct connection via Thunderbolt 3
Apple MAC M1-M4 Integrated Graphics Series	All models support 4K 144Hz direct one-cable connection via Thunderbolt 4/5
Apple iPad Pro Series	All models support 4K 144Hz direct one-cable connection via Thunderbolt 4/5
Apple iMac MacMini Series	All models released from 2021 onwards 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 P32T monitor transmits video via Alt Mode DP protocol, integrates USB data transmission, and supports PD reverse fast charging. This port has been upgraded to be compatible with Thunderbolt 4/5 and USB4 protocols. When connecting to a Thunderbolt 4/5 or USB4 port, support for 4K 160Hz resolution depends on the GPU port linked to the computer's USB-C interface. Users may check compatibility of their computer's USB-C port by two criteria: first, verify whether the port supports video output; second, confirm that the GPU supports DisplayPort 1.4 & DSC or higher specifications. When transmitting 4K 160Hz video signals via a USB-C cable, the actual operating bandwidth reaches approximately 29Gbps, which imposes strict requirements on the cable signal transmission quality. Cables must comply with USB 3.1 Gen2 / USB 3.2 Gen2 / USB4 specifications, with qualified material and build quality for both cables and ports. Users are advised to select high-quality cables to avoid compatibility issues. For devices requiring 100W reverse power supply, please use 5A cables equipped with an E-Marker chip.

MacOS Compatibility

The P32T monitor is fully compatible with all Mac devices. The Thunderbolt 4/5 and HDMI 2.1 ports built into the GPU of Apple Silicon M-series chips both support full gamut color display at 4K 160Hz. The USB-C port supports uncompressed full-gamut input at 80Gbps mode via the Thunderbolt 5 port of M4-series chips. It is compatible with the macOS HiDPI scaling function. MacBook series devices support 100W PD fast charging. It also supports quick switching and wake-up functions when connecting multiple Mac devices. For older Apple Silicon M1/M2/M3 chips, the maximum refresh rate supported by the USB-C port is limited to 144Hz.

HDR Function Compatibility

The HDR function of the P32T monitor is set to Auto by default and can be turned off manually. The HDMI port complies with the HDMI 2.1 VESA HDR10 standard specification. The DP and USB-C ports support HDR and are compliant with the VESA HDR10 standard. HDR is supported on Windows 10, requiring a compatible graphics card and system version 1803 or later. When HDR is activated by a player or game within the Windows system, the monitor will automatically switch to HDR display mode. It is normal for the screen to go black for 1 to 2 seconds during mode switching. On macOS, you can enable the High Dynamic Range option in System Display Settings to detect HDR compatibility based on device support. Some Apple Mac devices may not be able to enable the HDR function.

*

Manually enabling the HDR function in system display settings may result in visible picture differences compared with standard mode, which is normal.

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

After exiting HDR video playback or HDR game content, the monitor will automatically switch back to the default settings state.

Guangzhou Kuycon Electronic Technology Co., Ltd

2026.04.18 by Ehen