



Q34W Liquid Crystal Display

User Guide



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Enterprise management No.: GVT20210089

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Küycon

Product features

Q34W display adopts active matrix technology, thin film transistor (TFT), IPS liquid crystal display and KFS-LED backlight.

- (34-inch) viewable area (measured diagonally) 3440 x 1440 (21:9) resolution, 10-bit color depth
- Color gamut range 99% sRGB 96%DCI-P3
- Global brightness of 600nit
- New generation Fast IPS quick response panel
- HDMI port supports TMDS protocol with a maximum refresh rate of 100Hz
- Digital connection of USB Type-C, HDMI and DisplayPort
- With use of USB Type-C cable, power can be supplied to compatible notebook computers through USB-PowerDelivery protocol (maximum 100W), video and data signals can be received simultaneously, and Thunderbolt 4/USB4 is compatible
- Equipped with full-lamination-introduce AR anti-glare integrated glass mirror display screen
- High-strength structure of aluminum alloy and sandblasting anodic oxidation process for CNC high-precision machining
- Removable bracket and Video Electronics Standards Association (VESA™) 100 mounting hole
- Equipped with two USB Type-C downlink data expansion ports
- Compatible with NVIDIA® G-SYNC® and AMD FreeSync™ functions
- Software blue light resistance and multi-gear dark area enhancement functions
- Support sRGB color gamut reduction mode display
- Support 3-gear OD response acceleration function
- Support HDR function
- ΔE -Delta-E <2
- E-Mode paper-like black and white gray-scale display mode

Specification and parameter

Device type and name

LED liquid crystal display

Dimension

34-inch

Aspect ratio

21:9

Panel type

Fast-IPS

Resolution

3440x1440

Pixel density

109PPI

Refresh rate

165Hz

Color depth support

10 bit 1.07 billion colors

Color gamut

99%SRGB 96%DCI-P3

Brightness

Typical 600cd/m²

Contrast ratio

1000:1

Response time

Max GTG 5ms

Screen coating

AR mirror

Operating voltage

AC 100-240V (50/60Hz)

Power consumption

Typical 45Watt Max150Watt

Other features

HDR function USB-HUB expansion

Process and material

Body

Aluminum alloy CNC anodic oxidation

Weight

6.55KG (excluding bracket, only the body)

Panel

Four-edge equal width panel

Bracket type

Vesa 100mm*100mm

Port connection

DP1.4 (maximum resolution 3440x1440 165Hz)

HDMI (maximum resolution 3440x1440 100Hz)

USB-C (maximum resolution 3440x1440 165Hz)

*Compatible with Thunderbolt™4/USB4

2xUSB-C (USB2.0 data expansion ports)

*480Mbps Speed

3.5mm-jack (audio output port)

Accessories and cables

1xHDMI cable 1.5m

1xDisplayPort cable 1.8m

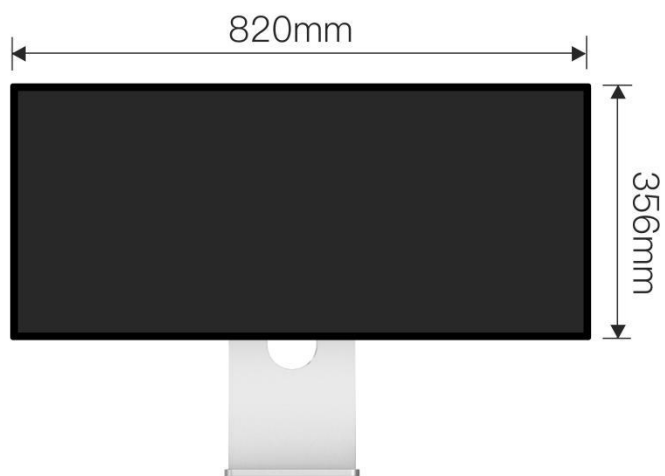
1xUSB4 Gen4 cable 1m

(40Gbps 5A100W cable)

2xUSB-C OTG adapter

Paper User Manual*1

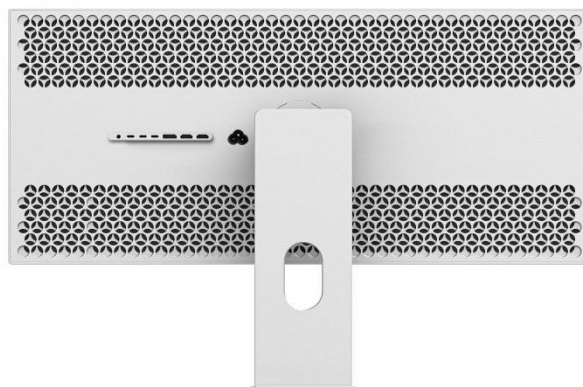
View



正视图



侧视图



背视图（洞洞款）

* Height * width * thickness = 820mm * 356mm * 22mm

* Appearance data, measurement or production may be with tolerance

Resolution and specification

Model	Q34W
Scope of horizontal scanning	88 kHz to 178 kHz (automatic)
Scope of vertical scanning	24 kHz to 60 kHz (automatic)
Maximum resolution	3440 x 1440 165Hz
Video modes supported by HDMI	480p, 480i, 576p, 576i, 720p, 1080i, 1080p, QHD, UHD 4K
Video modes supported by DP	480p, 480i, 576p, 576i, 720p, 1080i, 1080p, QHD, UHD
Video modes supported by USB-C	480p, 480i, 576p, 576i, 720p, 1080i, 1080p, QHD, UHD

Note: The resolution of 3440 x 1440 165Hz of this display needs to be supported by new GPU via Displayport1.4 or USB4/TBT output display.

It is recommended to use DP or USB-C port to connect the display to be compatible with new Thunderbolt™ 3 (⚡) devices.

Windows operating system

MacOS operating system

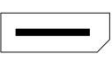
显示器信息		Apple M1:	
	Kuycon P32K	芯片组型号:	Apple M1
	显示器 2: 已连接到 AMD Radeon 780M Graphics	类型:	GPU
桌面模式	3840 × 2160, 144 Hz	总线:	内建
活动信号模式	3840 × 2160, 144 Hz	核总数:	7
位深度	10 位	供应商:	Apple (0x106b)
颜色格式	RGB	Metal支持:	Metal 3
颜色空间	高动态范围(HDR)	显示器:	
HDR 认证	未找到	Kuycon P32K	
峰值亮度	644 尼特	分辨率:	3840 x 2160 (2160p/4K UHD 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 driver from the GPU vendors to support HBR3 video mode output

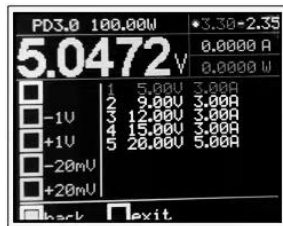
Packaging



Universal interface

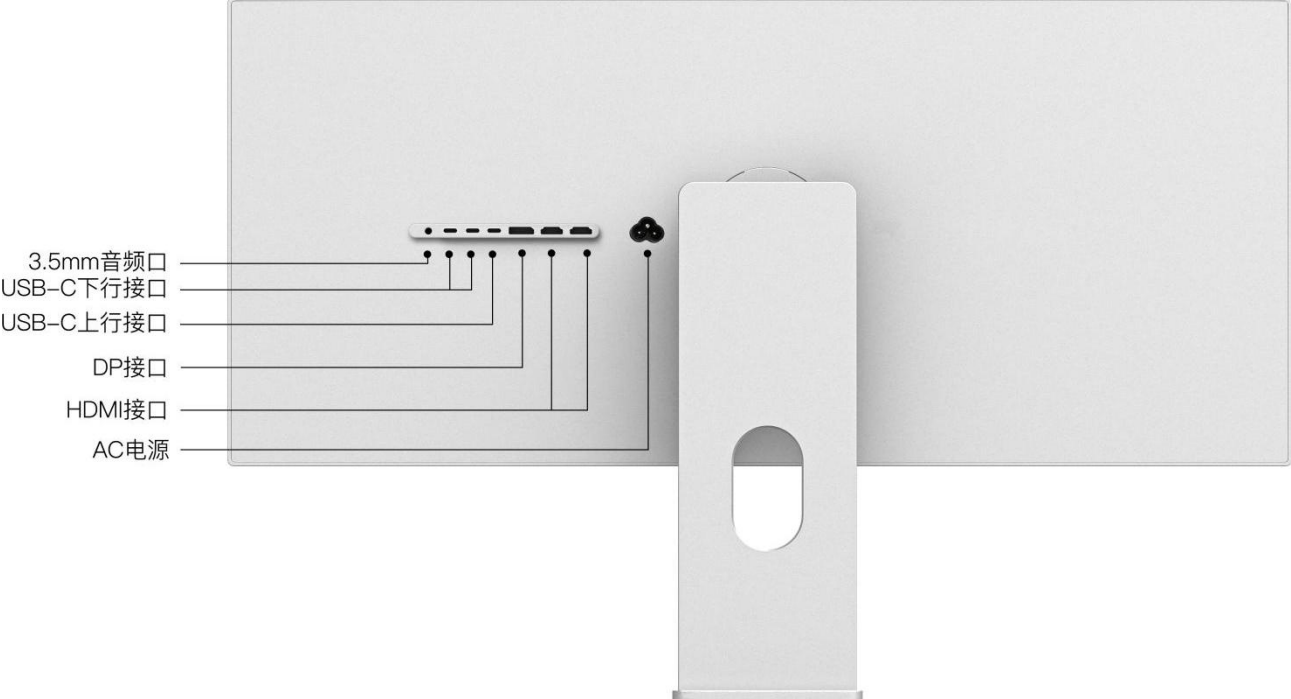
USB-C uplink port x 1 	Maximum supported resolution 3440 x1440 165Hz Speed 480mbps USB-PD
USB-C downlink port x 2 	USB downlink data expansion USB Speed 480mbps (5V 2.1A power supply capacity)
Displayport1.4 x 1 	Maximum supported resolution 3440 x1440 165Hz HDR HBR3 32Gbps (HDCP2.3)
HDMI2.1 x 2 	Maximum supported resolution 3440 x1440 100Hz HDR (HDCP2.3)

* Uplink USB-C port USB-PowerDelivery fast charging protocol



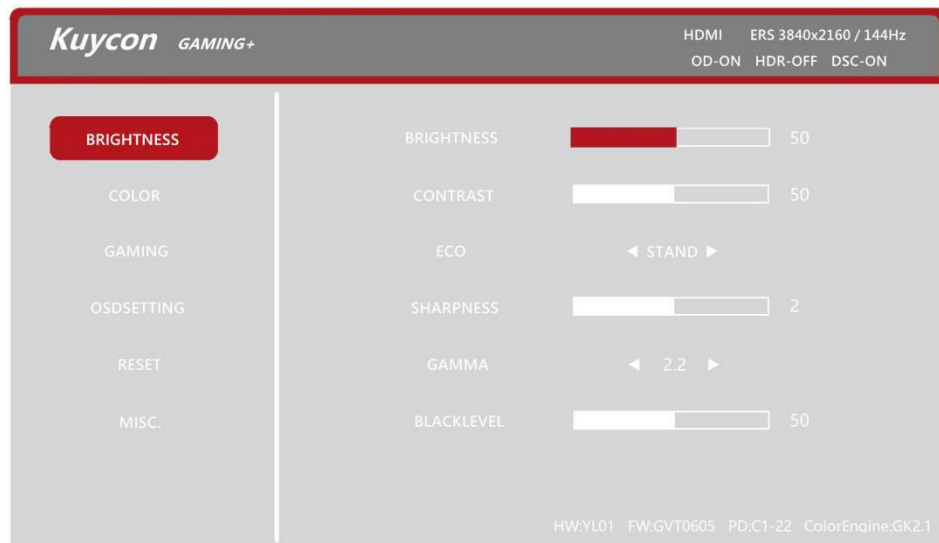
PDO output gear	5V-3A	9V-3A	12V-3A	15V-3A	20V-5A (with Emark 5A cable)
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1. Connect AC cable for powering on 2. Connect video signal 3. Connect USB expanded peripheral devices

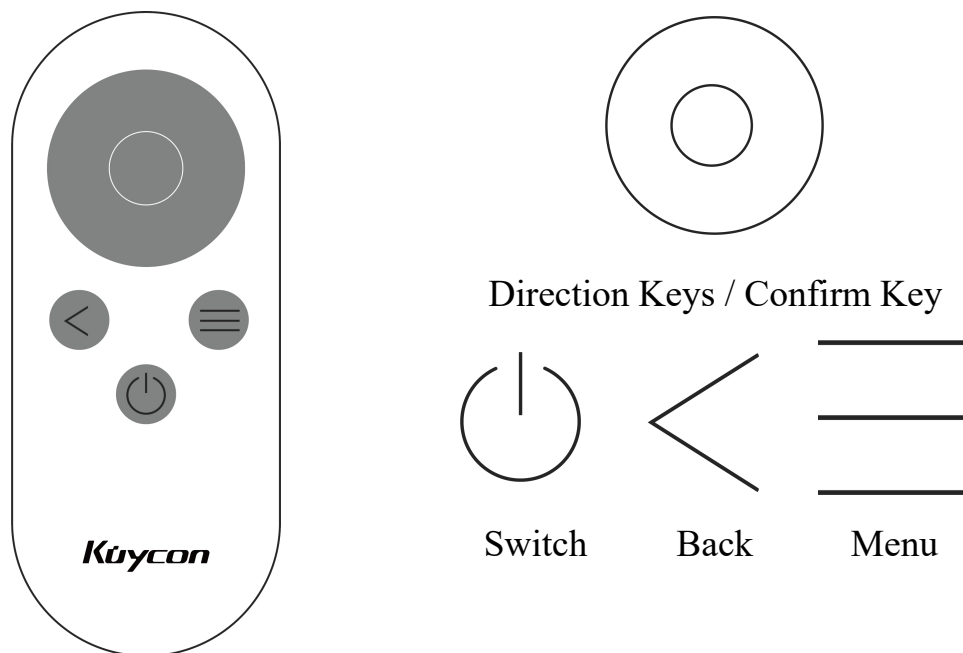


① AC power input	② HDMI	③ DP	④ USB-C uplink
⑤ USB-C downlink	⑥ USB-C downlink		/

Remote control operation instructions



Instructions



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

Installation instructions

- Open the packaging box and buffer layer

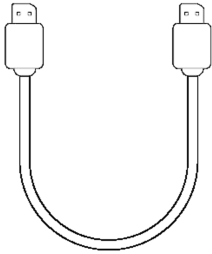


- Take out the vesa corresponding to the bracket for installation

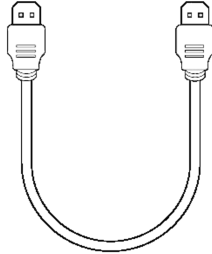


* When the bracket is installed, keep the panel flat. The panel can be placed on a buffered soft object to avoid the panel from being broken due to pressure.

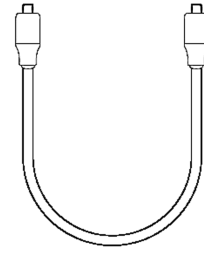
Accessories



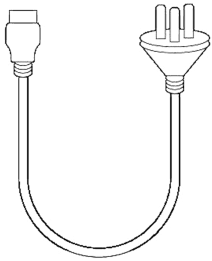
Displayport Cable 1.5m x 1



HDMI Cable 1.5m x 1



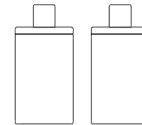
USB-C Cable 1m x 1



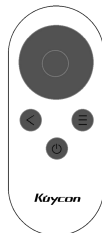
AC Power Cord 1.8m x 1



Paper Manual x 1



USB-C OTG Adapter x 2



Safety instructions

I. Q34W display is made of all-aluminum alloy, and users shall pay attention to the good ground contact when connecting AC connecting cable to power supply socket.



II. The electronic power devices in Q34W display are in contact type, passively dissipated by the body, and the body will be warm during use. In case of PD charging at full power, please pay attention to heat dissipation in surrounding area.



III. The front of the display is made of all-round glass material, please avoid cracking or breakage caused by hard objects bumping and bumping during use.



IV. Please avoid use of highly corrosive solution to clean the coating of display panel during daily maintenance and cleaning.



FAQs

Compatibility of hardware platform

The DP and USB-C interfaces of the display support 4K signal input in DP1.4 HBR3 mode with one cable, and the maximum resolution of HDMI2.0 only supports 3K-100hz. Note: The DisplayPort signal type of the display only supports 1.4 HBR3, but does not support DSC function, so 10bit can be enabled only when the display works at a refresh rate of 120hz. The hardware platforms supporting 3440x1440-165hz resolution are as follows

Nvidia

Turing architecture series GPU	GTX1050-RTX2080TI (direct TYPEC cable connection is available for GPU with USB-C VRLink)
Ampere architecture series GPU	RTX3050-3090TI
Adalove architecture series GPU	RTX4060-4090

AMD

RNDA architecture series GPU	RedeonR7, RX5500-RX5600XT
RNDA2 architecture series GPU	RX6400-RX6950XT
RNDA3 architecture series GPU	RX7600-RX7900XTX

Intel

Iris integrated graphics card of 10 th generation mobile platform	Iris/Iris Pro (direct TYPEC cable connection is available in case of Thunderbolt 3)
Tiger Lake integrated graphics card of the 11 th generation mobile platform	Iris Xe (direct TYPEC cable connection is available in case of Thunderbolt 3/4)
Tiger Lake integrated graphics card of the 11 th generation desktop platform	Iris Xe (direct TYPEC cable connection is available in case of Thunderbolt 3/4)
UHD730/750/770 integrated graphics card of the 12 th generation	4K144hz supported (direct TYPEC cable connection is available in case of Thunderbolt 3/4)

Mac

Apple MAC M1/M2 integrated graphics card series	Thunderbolt 4 one-cable connection for 4K is supported for the whole series
Apple iPad Air and Pro series	Thunderbolt 4 one-cable connection for 4K is supported for the whole series iPadOS supports maximum 60hz output temporarily
Apple iMac series	All M1 series after 2020 model supports

NUC

Intel nuc series host	NUC10- NUC13 and Hades Canyon support 4K
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Phone/Pad

Mobile phone or tablet computer	Nintendo SWITCH, Huawei MATE/P series, Smartisan series and Samsung S/NOTE series support same-screen or PC desktop mode
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Other

Other device	Sony PS4 pro PS5 and Microsoft XBOX support 2K@120HZ HDR with HDMI2
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Full-function USB-TYPEC and Thunderbolt 3/4

The USB-C interface of the display transmits AltMode DP1.4 video protocol, combines USB data and supports PD

reverse fast charging. Compatible, but without Thunderbolt 3/4 protocols When Thunderbolt 3/4 interface is connected, whether the display can support 4K resolution depends on the GPU port of the graphics card connected with the USB-C interface of the computer.

Users need to judge whether their computer USB-C interface supports, on one hand judge that whether the interface supports video output function, and on the other hand, to judge that whether the graphics card supports 4K resolution maximum.

When USB-C cable is connected to transmit 4K-144hz video signal, the actual working bandwidth reaches about 27Gbps, which requires the signal transmission quality of cable. It is required to use USB3.1 Gen2 / USB3.2 Gen2/USB4 40Gbps, and the materials and quality of wires and ports need to be qualified. Users shall pay attention to buying high-quality cables to avoid unnecessary troubles. If the power of 5A 100W is required for reverse power supply, users need to buy 5A cable with Emarker chip.

HDR function compatibility

The HDR function of Q34W display is in automatic state by default, and can be turned off optionally. The HDMI interface is compatible with the HDMI2.1 Vesa HDR10 standard specification. The interface between DP and USB-C supports HDR function, is compatible with Vesa HDR10 standard specification, is supported by Windows10 operating system, and needs the support of display card and system version number after 1803. When the HDR function is enabled by a player or a game in the Windows operating system, the display will automatically switch to HDR display mode. During switch of display mode, the display will be black for 1s-2s, it is normal. In accordance with device support, MacOS operating system can turn on the [High Dynamic Range Contrast] option in the system display settings to detect that whether the HDR function is supported. Some Apple Mac series devices may fail to enable the HDR function.

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When the HDR function is enabled manually in the system display settings, the picture will be different from the normal picture, it is normal.
When HDR function is enabled to display high dynamic picture content, the display backlight will be activated to the maximum working state.
After the played HDR video image or HDR game content is exited, the display will automatically switch to the default setting state.

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March 20, 2024 by Ehen