KTC 24 IPS QHD 180Hz

KTC 24-inch QHD 180Hz Gaming Monitor User Manual

Model: 24 IPS QHD 180Hz

1. Introduction

Thank you for choosing the KTC 24-inch QHD 180Hz Gaming Monitor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your new monitor. Please read this manual thoroughly before using the product to ensure proper and safe operation.

2. Safety Information

Always observe the following safety precautions to avoid injury or damage to the monitor:

- Do not expose the monitor to rain or moisture.
- Do not open the monitor casing; refer all servicing to qualified personnel.
- Place the monitor on a stable, level surface.
- Ensure proper ventilation around the monitor.
- Use only the power adapter supplied with the monitor.
- Unplug the monitor during lightning storms or when unused for long periods.

3. Package Contents

Verify that all items are present in your package:

- KTC 24-inch QHD 180Hz Gaming Monitor
- Monitor Stand (Base and Neck)
- Power Adapter and Cable
- HDMI Cable
- User Manual (this document)
- Warranty Card (if applicable)

4. Setup

4.1 Assembling the Stand

Follow these steps to assemble the monitor stand:

1. Carefully remove the monitor and stand components from the packaging.
2. Attach the stand neck to the monitor panel. Ensure it clicks securely into place.
3. Attach the stand base to the stand neck. Tighten the screw at the bottom of the base to secure it.
4. Place the assembled monitor on a stable desk.



Image: Front and back view of the KTC 24-inch QHD 180Hz Gaming Monitor, illustrating its design and adjustable stand.



Image: Diagram showing the monitor's multi-angle adjustments including height, pivot, and tilt.

4.2 Connecting the Monitor

Connect your devices to the monitor using the available ports:

- **Power:** Connect the power adapter to the monitor's power input and then to a wall outlet.
- **DisplayPort (DP 1.4):** For optimal performance (up to 180Hz/185Hz OC), connect your PC's graphics card to the monitor's DP port using a DisplayPort cable.
- **HDMI (HDMI 2.0 x2):** Connect your PC, gaming console (PS5, Xbox), or other devices to the monitor's HDMI ports. Supports up to 144Hz.
- **USB 2.0 (Upgrade Only):** This port is for firmware upgrades only.
- **Earphone:** Connect headphones or external speakers to this 3.5mm audio jack.



Image: Rear view of the monitor highlighting the various input ports: Earphone, USB 2.0, DP 1.4, HDMI 1, and HDMI 2.



Image: Visual representation of the monitor's multiple connection options, including HDMI and DisplayPort, and their compatibility with

various devices.

5. Operating the Monitor

5.1 Power On/Off

Press the power button located on the monitor to turn it on or off. The power indicator light will illuminate when the monitor is on.

5.2 On-Screen Display (OSD) Menu

The OSD menu allows you to adjust various monitor settings. Use the joystick or buttons (depending on model) on the back or bottom of the monitor to navigate the menu.

- **Brightness/Contrast:** Adjust image luminance.
- **Color Settings:** Modify color temperature, gamma, and saturation.
- **Input Select:** Switch between DP and HDMI inputs.
- **Picture Mode:** Select preset display modes (e.g., Standard, Game, Movie).
- **Gaming Features:** Enable/disable FreeSync/G-Sync, adjust response time (OD), and crosshair.
- **System Settings:** Language, OSD timeout, reset to factory settings.

5.3 Key Features

- **QHD Resolution (2560x1440):** Experience sharp and detailed visuals.



Image: The monitor displaying a high-resolution 2K (2560x1440) image, emphasizing the clarity of the Fast-IPS panel.

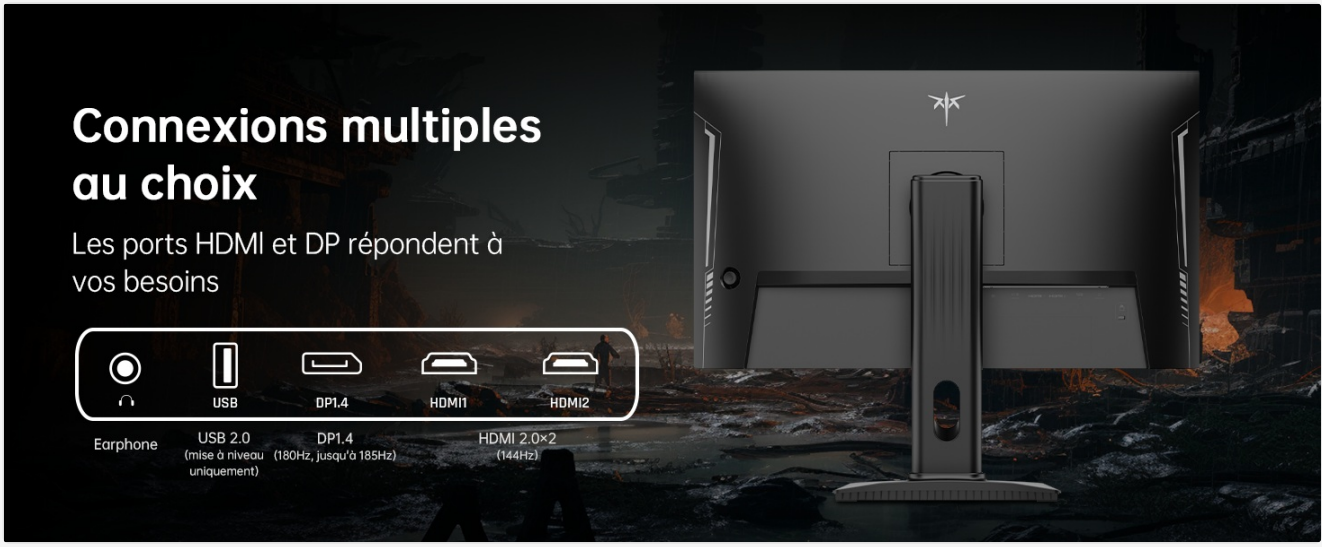


Image: Comparison showing how QHD resolution reveals more hidden details compared to FHD.

- **180Hz Refresh Rate (185Hz OC):** Enjoy ultra-smooth motion, especially in fast-paced games.



Image: Visual representation of the monitor's 180Hz refresh rate (with 185Hz overclocking via DP) and 1ms response time, indicating real-time responsiveness.

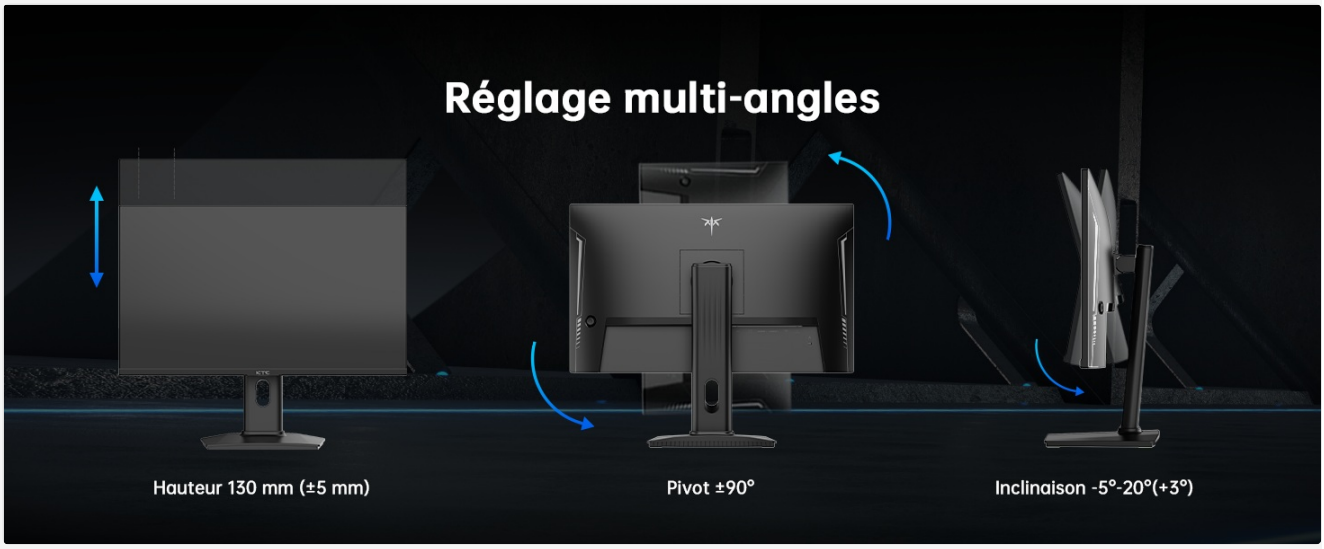


Image: Diagram illustrating the monitor's ability to overclock to 185Hz, showing the difference from 180Hz and 120Hz.

- **1ms Fast-IPS Response Time:** Minimizes motion blur and ghosting for clear visuals.

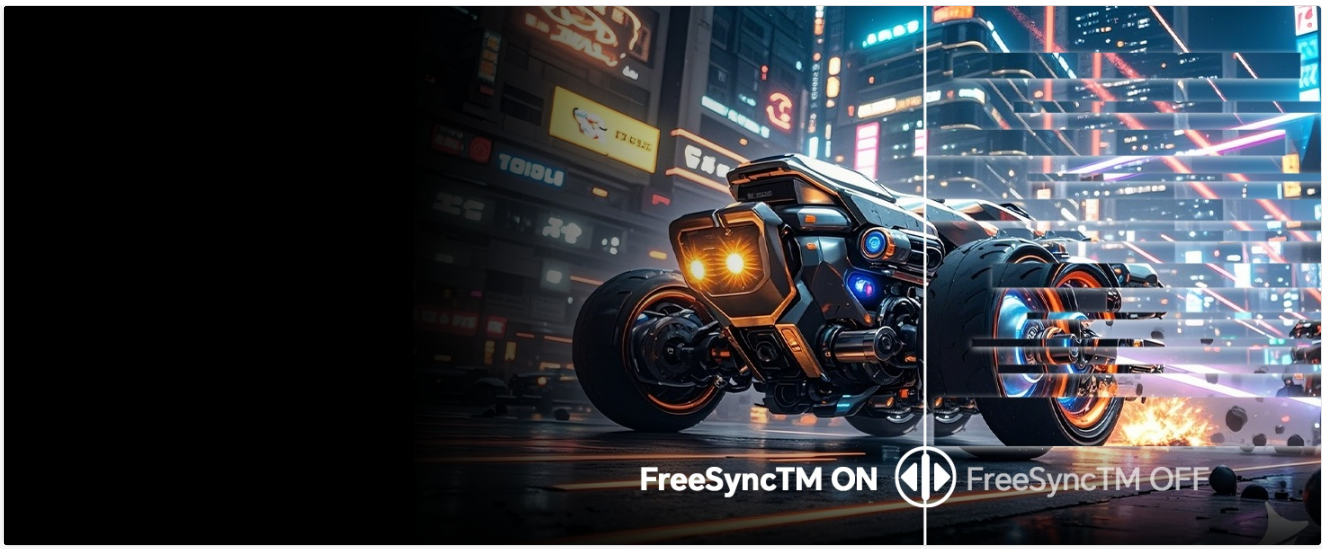


Image: Comparison showing the visual difference between 1ms and 5ms response times, highlighting the clarity of 1ms.

- **HDR 400 Support:** Delivers dynamic images with rich contrast and vibrant colors.



Image: Visual comparison demonstrating the enhanced dynamic range and contrast provided by HDR 400 compared to HDR 10.



Image: Illustration of HDR 400 technology, explaining how it enhances details in dark and bright areas.

- **AMD FreeSync / NVIDIA G-Sync Compatible:**Synchronizes the monitor's refresh rate with your GPU for tear-free and stutter-free gaming.



Image: Comparison showing the visual difference with FreeSync ON (smooth image) versus FreeSync OFF (screen tearing).



Image: Another visual comparison demonstrating the benefits of FreeSync technology, eliminating screen tearing.

- **Wide Color Gamut (99% DCI-P3, 127% sRGB):** Provides accurate and vibrant color reproduction for creative work and immersive entertainment.



Image: Display showing color gamut coverage (99% sRGB), brightness (400cd/m²), 1.07 billion colors (8bit+FRC), and color

precision (ΔE < 2).



Image: Illustration of the monitor's color technologies, including 1.07 billion colors (8bit+FRC), 400 nits brightness, ΔE < 2 color precision, and 99% sRGB coverage.

- **Low Blue Light & Flicker-Free:** Hardware-level blue light filtering and DC dimming technology protect your eyes during extended use.



Image: Icons indicating 400 nits brightness, flicker-free technology, and low blue light feature, designed for eye comfort during long gaming sessions.



Image: Diagram explaining how hardware-level low blue light filtering works to protect eyes by filtering harmful wavelengths at the source.

5.4 Ergonomic Adjustments

The monitor stand offers various adjustments for comfortable viewing:

- **Tilt:** Adjust the screen angle from -5° to +15°.
- **Pivot:** Rotate the screen 90° for portrait mode.
- **Height Adjustment:** Adjust the screen height by 110mm (±5mm).



Image: Diagram illustrating the monitor's ergonomic adjustments: tilt (-5° to +15°), pivot (90°), and height adjustment (110mm).

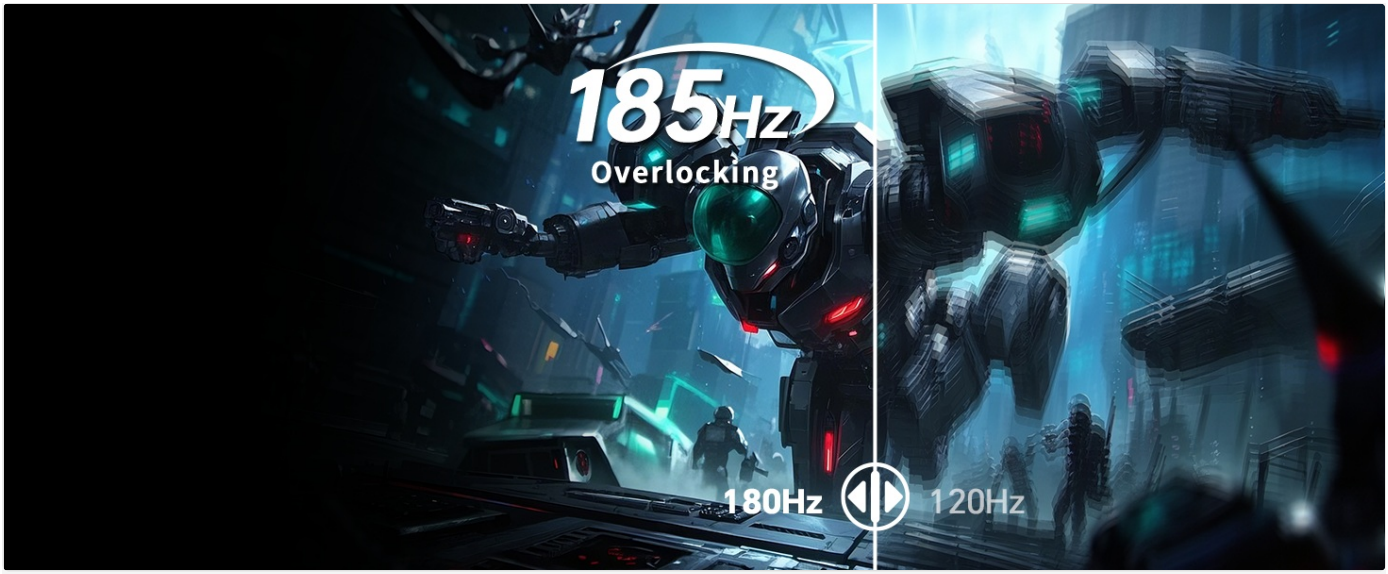


Image: Visual guide to the monitor's multi-angle adjustments, including height adjustment (130mm), 90° pivot, and tilt (-5° to 20°).

6. Maintenance

To ensure the longevity and optimal performance of your monitor, follow these maintenance guidelines:

- **Cleaning the Screen:** Gently wipe the screen with a soft, lint-free cloth. For stubborn marks, dampen the cloth with a small amount of non-ammonia, non-alcohol based glass cleaner. Do not spray cleaner directly onto the screen.
- **Cleaning the Casing:** Use a soft, dry cloth to wipe the monitor casing. Avoid abrasive cleaners.
- **Ventilation:** Keep the ventilation openings clear to prevent overheating.
- **Storage:** If storing the monitor for an extended period, unplug it and cover it to protect from dust.

7. Troubleshooting

If you encounter issues with your monitor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on screen	Power cable disconnected; Video cable disconnected; Incorrect input selected.	Check power connections; Ensure video cable (HDMI/DP) is securely connected; Select correct input via OSD menu.
Image is blurry or distorted	Incorrect resolution; Loose video cable.	Set display resolution to 2560x1440; Reconnect video cable firmly.
Screen tearing or stuttering in games	FreeSync/G-Sync not enabled; Graphics card driver issues.	Enable FreeSync/G-Sync in OSD and graphics card settings; Update graphics drivers.
No audio from earphone port	Audio cable not connected; Volume too low; Incorrect audio output selected on PC.	Ensure headphones/speakers are connected; Adjust volume; Select monitor as audio output device on your PC.

If the problem persists, please contact KTC customer support.

8. Specifications

Feature	Detail
Brand	KTC
Model Number	24 IPS QHD 180Hz
Screen Size	24 Inches
Resolution	2560 x 1440 Pixels (QHD)
Panel Type	Fast-IPS
Refresh Rate	180 Hz (up to 185Hz Overclock)
Response Time	1 Millisecond (GtG)
Brightness	400 cd/m²
Contrast Ratio	1000:1
HDR Support	HDR 400
Color Gamut	99% DCI-P3, 127% sRGB
Aspect Ratio	16:9
Connectivity	1x DisplayPort 1.4, 2x HDMI 2.0, 1x USB 2.0 (Upgrade), 1x Earphone Jack
Special Features	Height Adjustment, Pivot, Tilt, HDR, Flicker-Free, Low Blue Light, FreeSync/G-Sync Compatible
VESA Mount Compatible	100x100mm

9. Warranty and Support

KTC is committed to producing high-quality gaming monitors. If you find any damage, defects, or missing accessories, please contact us immediately. For warranty information and technical support, please refer to the warranty card included in your package or visit the official KTC website.

Customer Service: For assistance, please contact KTC customer support through their official channels.

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