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KTC H27E22P

KTC H27E22P 27-inch 280Hz Gaming Monitor User Manual

Model: H27E22P | Brand: KTC

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your KTC H27E22P 27-inch 280Hz Gaming Monitor. Please read this manual thoroughly before using the product and retain it for future reference.

1.1 What's in the Box

- 27-inch FHD 280Hz Monitor (1 pc)
- Tilt Adjustable Stand (1 pc)
- Warranty Card (1 pc)
- Quick Start Guide (QSG) (1 pc)
- DP Cable (1 pc)
- Adapter (1 pc)
- Screwdriver (1 pc)

Immerse Yourself In The Ultimate Gaming Experience

27 inch | FHD(1920×1080) | Fast VA



Image 1.1: KTC H27E22P monitor with stand, keyboard, mouse, and speakers, illustrating a typical gaming setup. This image shows the monitor's design and how it fits into a user's environment.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the monitor and ensure user safety:

- Do not expose the monitor to rain or moisture to avoid fire or electric shock hazards.
- Do not open the monitor casing. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Place the monitor on a stable, flat surface to prevent it from falling.
- Ensure proper ventilation around the monitor. Do not block ventilation openings.
- Use only the power adapter supplied with the monitor.
- Disconnect the power plug from the outlet if the monitor will not be used for an extended period.

3. SETUP

3.1 Stand Assembly

1. Carefully remove the monitor and stand components from the packaging.
2. Attach the stand base to the stand neck using the provided screws.
3. Align the assembled stand with the mounting slot on the back of the monitor and secure it firmly.
4. Place the monitor on a stable desk.

3.2 Connecting Cables

Connect the necessary cables to the monitor's input ports:

- **Power Cable:** Connect the power adapter to the monitor's DC input port and then to a power outlet.
- **DisplayPort (DP):** For optimal performance (up to 280Hz refresh rate), connect one end of the supplied DP cable to the monitor's DP 1.4 port and the other end to your computer's graphics card DP output.
- **HDMI:** Connect an HDMI cable (not supplied) to one of the monitor's HDMI 2.0 ports (up to 240Hz refresh rate) and the other end to your computer or gaming console's HDMI output.
- **USB 2.0 (Upgrade only):** This port is for firmware upgrades only.

Multi-port & Tilt Adjustment



Image 3.1: Rear view of the KTC H27E22P monitor, highlighting the multi-port connectivity including USB 2.0, HDMI 2.0 (x2), DisplayPort 1.4, and the DC power input. The VESA 100x100mm mounting pattern is also visible, along with the tilt adjustment mechanism.

4. OPERATING THE MONITOR

4.1 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 active.

4.2 On-Screen Display (OSD) Menu

The OSD menu allows you to adjust various monitor settings. Use the joystick or buttons (refer to the Quick Start Guide for specific button layout) on the monitor to navigate the menu and make selections. Common settings include:

- **Picture Settings:** Brightness, Contrast, Sharpness, Gamma.
- **Color Settings:** Color Temperature, Hue, Saturation.
- **Input Select:** Choose between DP and HDMI inputs.
- **OSD Settings:** Language, OSD Transparency, OSD Timeout.
- **Gaming Settings:** FreeSync/Adaptive-Sync, Response Time (Overdrive), Crosshair.

4.3 Key Features

4.3.1 High Refresh Rate and Response Time

The KTC H27E22P monitor features an ultra-fast 280Hz refresh rate (via DisplayPort) and a 1ms GTG (Gray-to-Gray) response time. These specifications are designed to provide smooth, fluid motion and minimize ghosting in fast-paced content.



Image 4.1: The monitor screen displaying a dynamic image of a spaceship with a large '280' overlay, emphasizing the 280Hz refresh rate and 1ms GTG response time for enhanced gameplay.

4.3.2 Adaptive-Sync Technology

This monitor supports Adaptive-Sync technology, which helps to eliminate screen tearing and stuttering by

synchronizing the monitor's refresh rate with the graphics card's frame rate. This feature is compatible with both FreeSync and G-Sync enabled graphics cards.



Image 4.2: A visual comparison demonstrating the effect of Adaptive-Sync. The left side shows a smooth image of a motorcycle with Adaptive-Sync ON, while the right side shows the same image with noticeable screen tearing when Adaptive-Sync is OFF.

4.3.3 Color Accuracy and HDR Support

The monitor offers 8-bit color depth, a wide 1.07 billion color gamut, and 126% sRGB coverage, ensuring vivid and accurate color reproduction. A 4000:1 contrast ratio provides deep blacks and bright whites. HDR (High Dynamic Range) technology is supported, enhancing the visual experience with a wider range of colors and greater contrast.

Vibrant Colors with 126% sRGB

Enjoy vivid and accurate colors for a visually stunning gaming environment.



350cd/m²
Brightness



126% sRGB
Color Gamut



4000:1
Contrast Ratio

Image 4.3: The monitor displaying a colorful gradient, illustrating its vibrant color capabilities with 126% sRGB coverage and a 4000:1 contrast ratio.

4.3.4 Blue Light Filter and Flicker-Free Technology

To reduce eye strain during prolonged use, the monitor incorporates a Blue Light Filter and Flicker-Free technology. The Blue Light Filter minimizes harmful blue light emissions, while Flicker-Free technology eliminates screen flickering, providing a more comfortable viewing experience.

Blue Light Filter Without Flicker

Filters blue light and won't strain your eyes.



Low Blue Light



Flicker-Free



Image 4.4: A visual representation of the Blue Light Filter and Flicker-Free features. The left side shows a scene with reduced blue light, while the right side shows the same scene without the filter, appearing brighter and potentially more straining.

4.3.5 Game Presets

The monitor includes various game presets (e.g., FPS, RTS) that optimize display settings for specific game genres. These presets can be accessed and switched via the OSD menu to enhance your gaming experience.

Switch Game Presets with Different Game Modes



Image 4.5: The monitor displaying a scene from a first-person shooter game, with indicators for FPS, RACING, and RTS game modes, demonstrating the ability to switch between optimized display settings.

4.3.6 Wide Viewing Angle

With a 178° wide viewing angle, the monitor ensures consistent image quality and color accuracy from various perspectives, making it suitable for multi-user viewing or flexible seating arrangements.

Smooth Game Motion

Our ultra-fast screen eliminates image tearing and motion blur, creating an advantage for all players.



HDR Support



178° Viewing Angle



1ms GTG

Image 4.6: The monitor displaying a racing game, emphasizing smooth game motion with HDR support, a 178° viewing angle, and 1ms GTG response time.

5. MAINTENANCE

5.1 Cleaning the Screen

To clean the monitor screen:

- Turn off the monitor and unplug the power cord.
- Gently wipe the screen with a soft, lint-free cloth.
- For stubborn marks, lightly dampen the cloth with water or a mild, non-abrasive screen cleaner. Do not spray cleaner directly onto the screen.
- Avoid using alcohol, ammonia, or abrasive cleaners, as they can damage the screen surface.

5.2 Cleaning the Casing

Wipe the monitor casing with a soft, dry cloth. If necessary, use a slightly damp cloth. Do not use any liquid cleaners directly on the casing.

6. TROUBLESHOOTING

If you encounter issues with your monitor, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No image on screen	Power cable not connected; Video cable not connected; Incorrect input source selected.	Ensure power cable is securely connected. Check video cable (DP/HDMI) connections. Select the correct input source via the OSD menu.
Image is blurry or distorted	Incorrect resolution; Video cable issue.	Set the display resolution to 1920 x 1080. Ensure the video cable is securely connected and not damaged.
Screen flickering	Refresh rate mismatch; Cable quality; Graphics driver issue.	Ensure Adaptive-Sync is enabled. Check if the refresh rate is set correctly in your computer's display settings. Try a different DP/HDMI cable. Update graphics drivers.
No sound (if external speakers connected to monitor)	Audio cable not connected; Volume too low; Incorrect audio output device.	Ensure audio cable is connected. Adjust volume on monitor and computer. Select monitor as audio output device in computer settings.
Buttons not responding	OSD lock enabled; Monitor malfunction.	Refer to the Quick Start Guide for OSD lock/unlock procedures. If issue persists, power cycle the monitor.

7. SPECIFICATIONS

Feature	Detail
Brand	KTC
Model	H27E22P
Screen Size	27 Inches
Panel Type	Fast VA
Resolution	FHD 1080p (1920 x 1080 Pixels)
Refresh Rate	280Hz (via DP), 240Hz (via HDMI)
Response Time	1ms GTG

Feature	Detail
Image Brightness	300 Candela (cd/m ²)
Image Contrast Ratio	4000:1
Color Depth	8-bit, 1.07 billion colors
Color Gamut	126% sRGB coverage
HDR Support	Yes
Adaptive Sync	FreeSync & G-Sync Compatible
Viewing Angle	178°
Connectivity	2x HDMI 2.0, 1x DisplayPort 1.4, 1x USB 2.0 (Upgrade only)
VESA Mount	100 x 100 mm
Product Dimensions	6 x 27 x 18 inches
Item Weight	15.57 pounds

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included in your product packaging or visit the official KTC website. Keep your purchase receipt as proof of purchase for warranty claims.