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KTC 27M1

KTC 27M1 27-Inch QHD 210Hz Fast IPS Gaming Monitor User Manual

Model: 27M1

1. Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your KTC 27M1 27-inch QHD 210Hz Fast IPS Gaming Monitor. This monitor features a native 2560 x 1440 QHD resolution, a 210Hz refresh rate, 1ms (MPRT) response time, built-in dual 2W speakers, and a detachable shielding hood for an optimized viewing experience.

Figure 1: KTC 27M1 27-inch QHD 210Hz Fast IPS Gaming Monitor with Shielding Hood.

2. What's in the Box

Verify that all components are present in the package:

- Monitor x1
- Base x1
- Monitor Shielding Hood x2
- Quick Start Guide (QSG) x1
- DisplayPort (DP) Cable x1
- Adaptor x1
- Power Cord x1

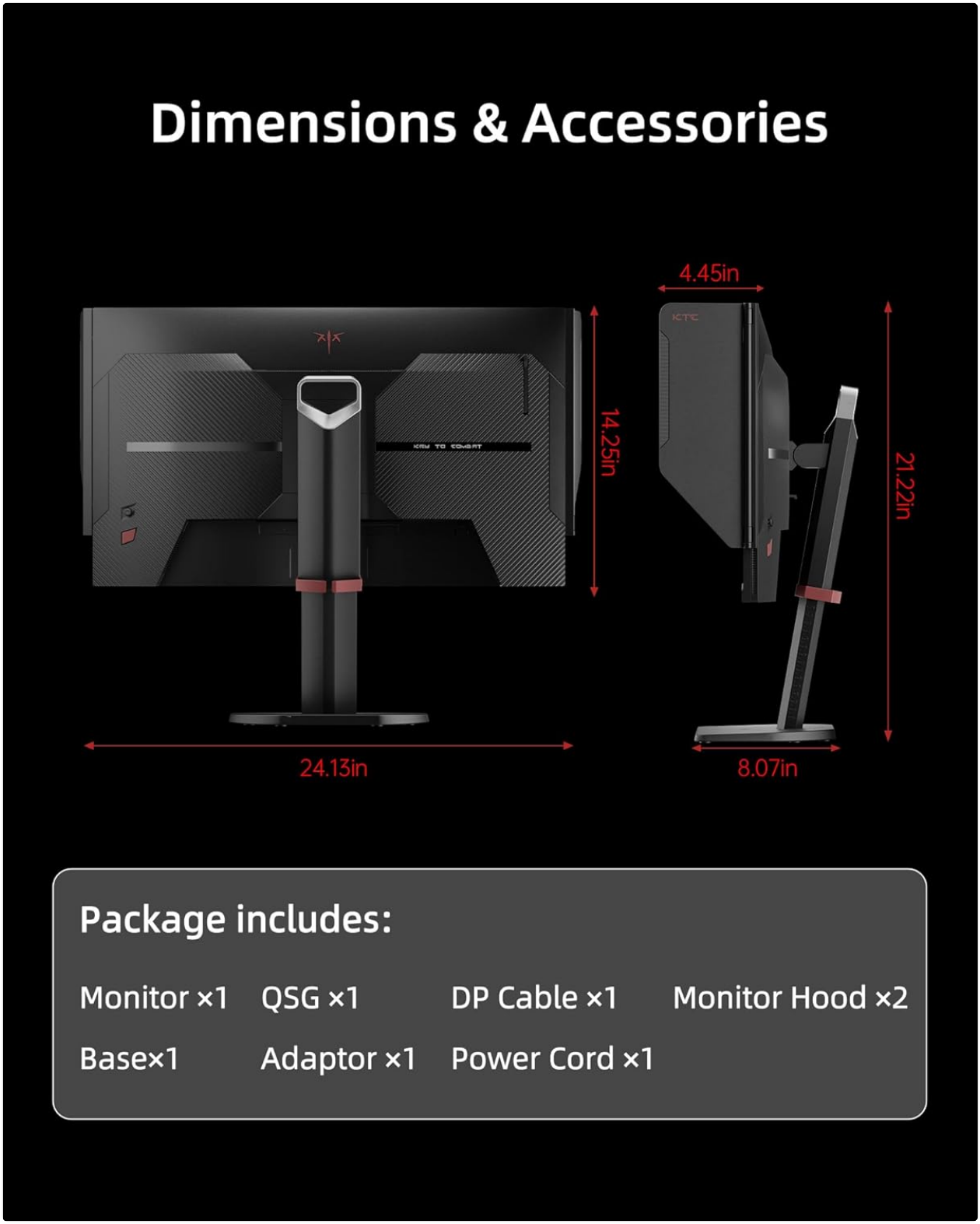

Figure 2: Package contents for the KTC 27M1 monitor.

3. Setup

3.1. Monitor Assembly

1. Carefully remove the monitor and base from the packaging.
2. Attach the base to the monitor stand. Ensure it clicks securely into place.
3. Attach the monitor shielding hoods to the sides of the monitor. These are designed to absorb light and reduce reflections, enhancing visual immersion.

3.2. Connecting the Monitor

The KTC 27M1 monitor offers versatile connectivity options:

- **DisplayPort 1.4 (DP):** Supports up to 200Hz (overclocked to 210Hz) QHD resolution. Use the included DP cable for optimal performance.
- **HDMI 2.0:** Supports up to 144Hz QHD resolution.
- **USB 2.0:** For firmware upgrades only.
- **Earphone Jack:** For audio output.

Connect the appropriate cable(s) from your computer or device to the monitor. Then, connect the power adapter and power cord to the monitor and a power outlet.

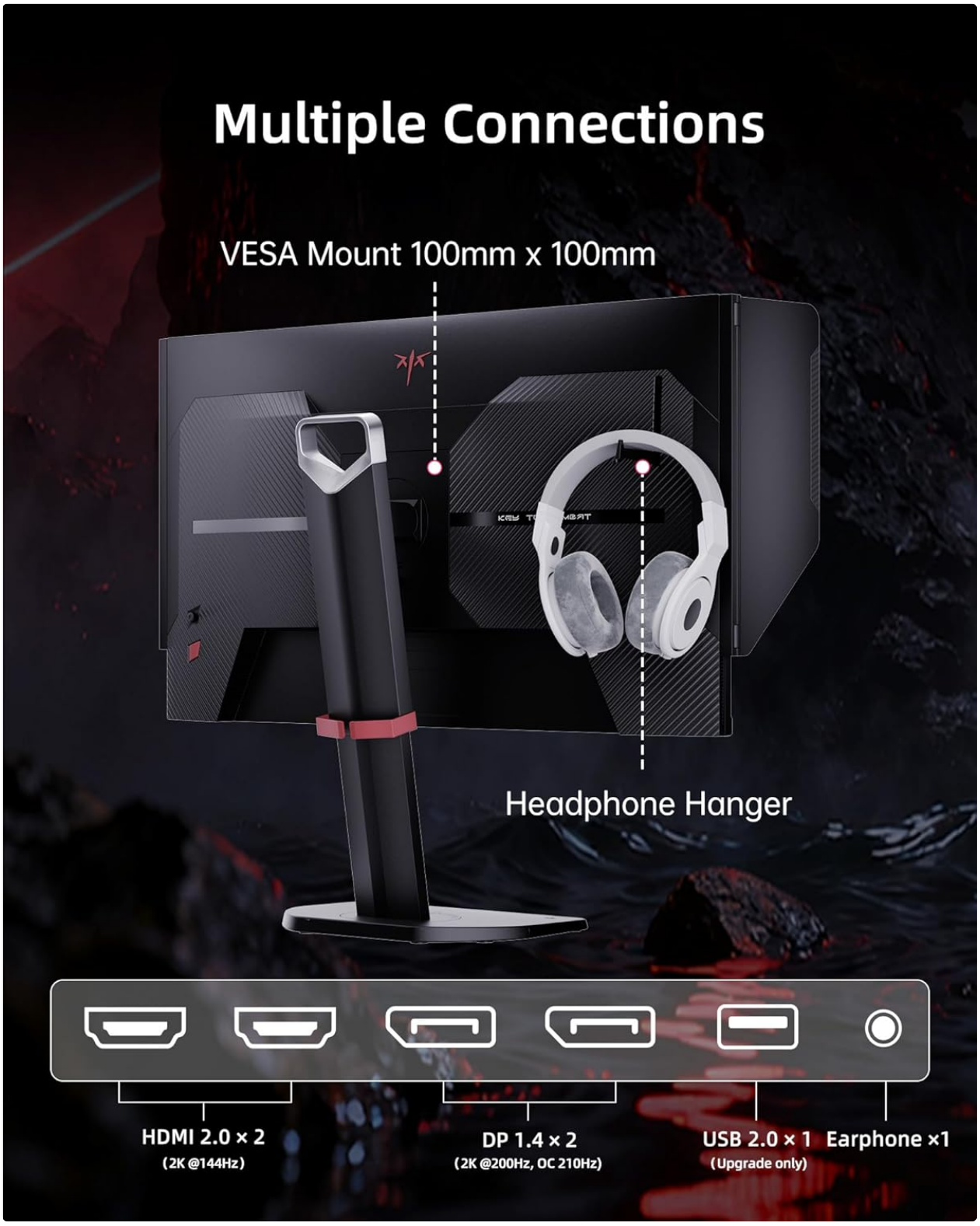

Figure 3: Multiple connection options and features on the KTC 27M1 monitor.

4. Operating the Monitor

4.1. Power On/Off

Press the power button located on the monitor to turn it on or off.

4.2. On-Screen Display (OSD) Menu Navigation

The monitor features a 5-way navigation joystick for easy access and control of the OSD menu. Push the joystick in to open the menu, then move it up, down, left, or right to navigate and select options.

4.3. Display Settings

- **Resolution:** The monitor supports a native 2560 x 1440 QHD resolution for sharp and clear visuals.
- **Refresh Rate:** Enjoy a smooth experience with a 210Hz refresh rate (when overclocked via DisplayPort 1.4).
- **Response Time:** A 1ms (MPRT) response time minimizes motion blur and ghosting.
- **Color Accuracy:** Features 130% sRGB color gamut area, 1.07 billion colors, 1000:1 contrast ratio, and 450cd/m² brightness with HDR support for professional, true-to-life colors.

Figure 4: QHD 2K Resolution for clear visual detail.

Figure 5: High refresh rate and fast response time for fluid gameplay.

4.4. Gaming Features

- **Adaptive Sync:** Supports Adaptive Sync technology for tear-free and stutter-free gaming.
- **Overdrive:** Adjust the overdrive setting for faster pixel response times.
- **MPRT:** Motion Picture Response Time can be enabled for reduced motion blur.
- **Game Assist:** Access various in-game enhancements like crosshairs or timers.
- **Black Equalizer:** Adjust dark areas in games for better visibility.
- **Game Mode/FPS Mode:** Pre-set display modes optimized for different game genres.

4.5. Audio

The monitor includes built-in dual 2W speakers, providing convenient audio without external speakers. An earphone jack is also available for private listening.

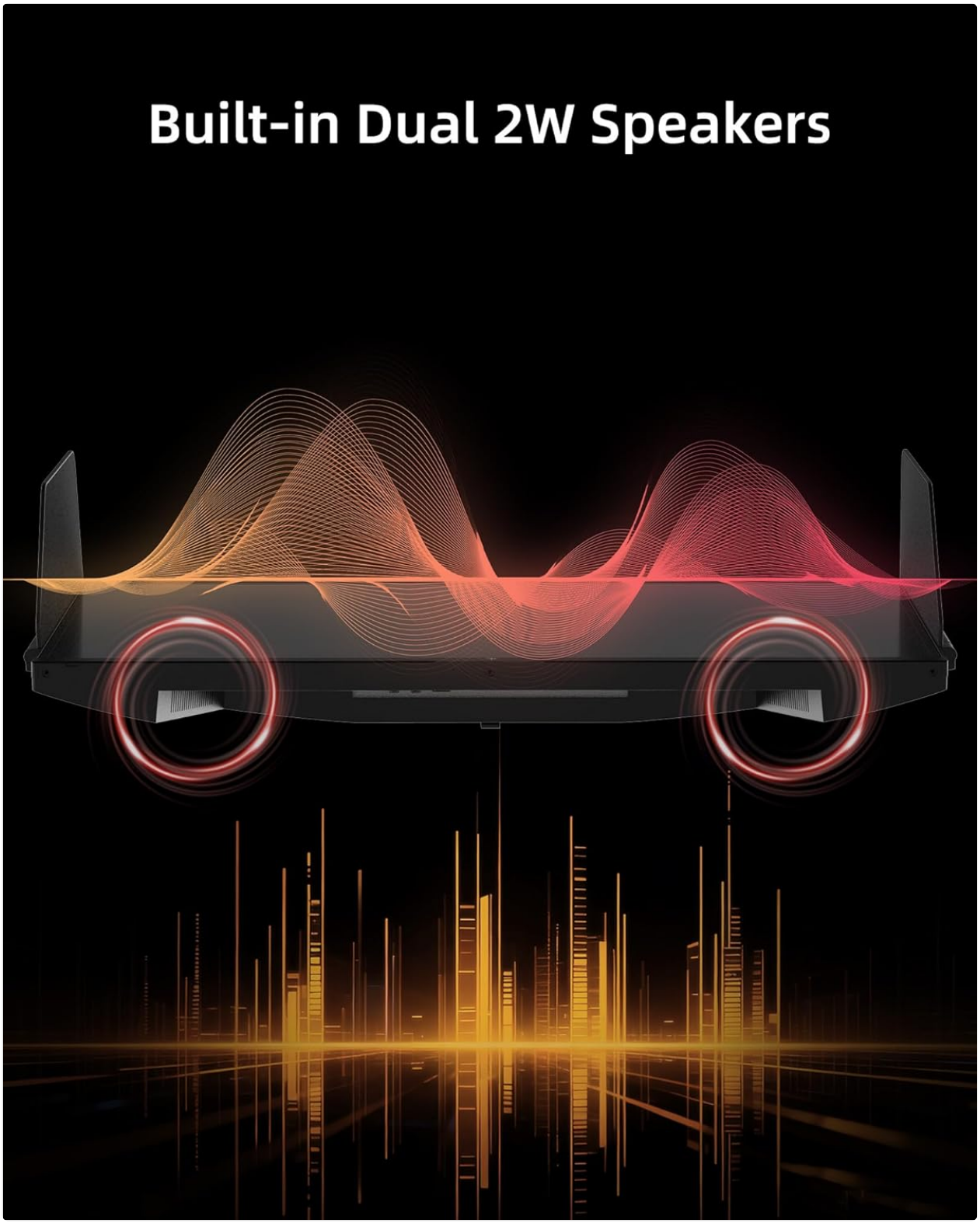

Figure 6: Built-in Dual 2W Speakers.

4.6. Shielding Hood

The detachable monitor hood, made of flocking material, helps eliminate frame reflections by absorbing ambient light. This enhances visual immersion and image contrast, and also provides a soft texture with sound-absorbing effects.

Figure 7: Detachable Monitor Hood to eliminate ambient light and reflection.

4.7. Ergonomic Adjustments

The monitor stand supports a range of adjustments for optimal viewing comfort:

- **Height Adjustment:** 150±5mm
- **Tilt:** -5° to 35°
- **Swivel:** -60° to 60°
- **Pivot:** -5° to 90° (for vertical orientation)

The monitor also supports VESA 100 x 100 mm mounting for alternative mounting solutions.

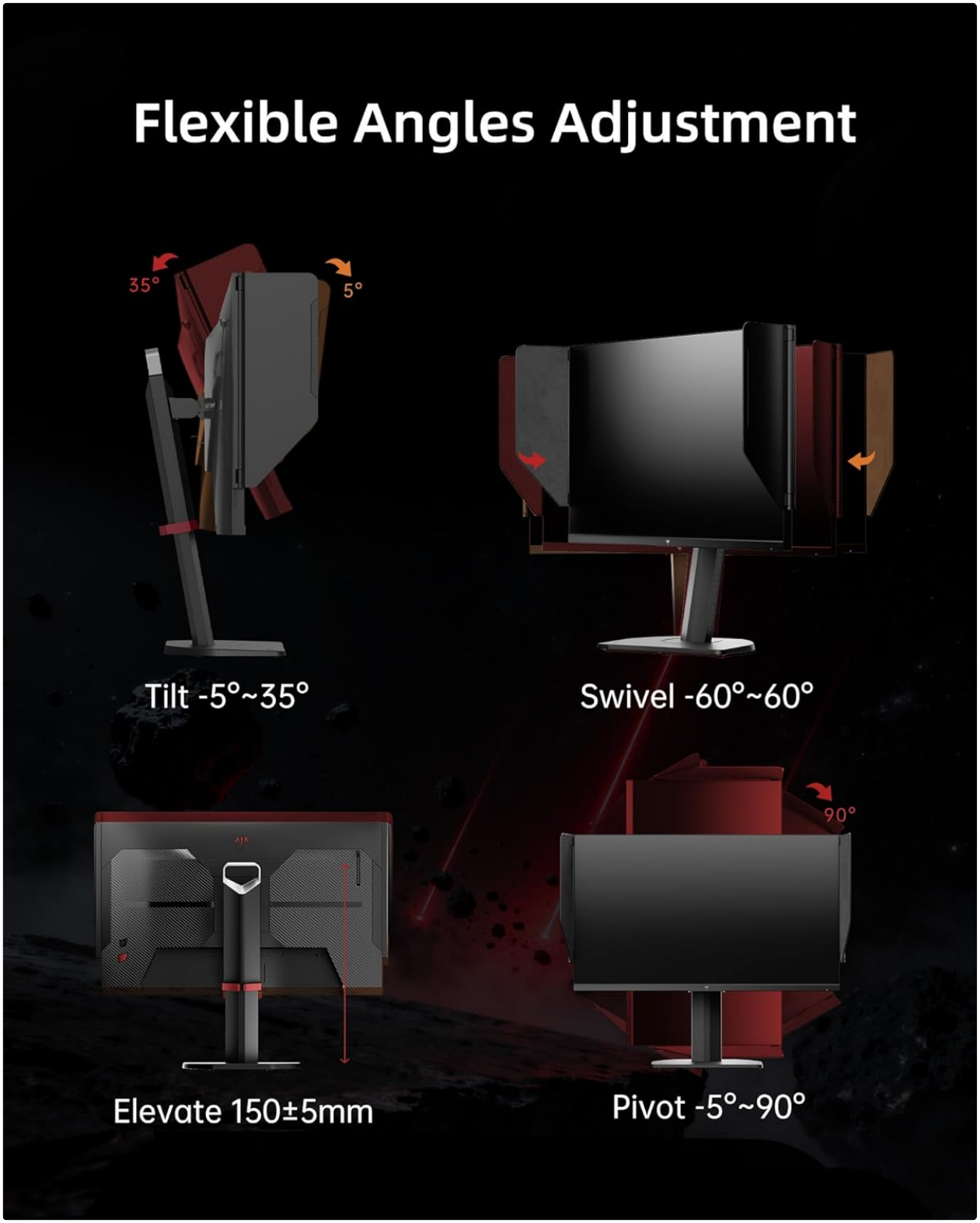

Figure 8: Flexible angle adjustments for personalized viewing.

4.8. Eye Comfort Features

The monitor incorporates low blue light and flicker-free technologies to reduce eye strain and enhance comfort during prolonged use.

4.9. Official Product Video

Video 1: Overview of the KTC 27 Inch 210Hz 2K Gaming Monitor with Shielding Hood, showcasing its features and design.

5. 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 slightly with water or a mild, non-abrasive screen cleaner. Avoid using harsh chemicals or abrasive materials.
- **Cleaning the Casing:** Use a soft, dry cloth to clean the monitor's casing.
- **Storage:** If storing the monitor for an extended period, place it in its original packaging or a protective cover in a cool, dry place.

6. Troubleshooting

If you encounter any issues with your KTC 27M1 monitor, refer to the following common problems and solutions:

- **No Display:**
  - Ensure the power cable is securely connected to both the monitor and the power outlet.
  - Verify that the video cable (DP or HDMI) is correctly connected to both the monitor and your computer/device.
  - Check if the correct input source is selected in the OSD menu.
  - Test the monitor with another device or cable if possible.
- **Flickering Screen:**
  - Ensure the video cable is securely connected.
  - Check your graphics card drivers and update them if necessary.
  - Disable any overclocking settings if enabled.
  - Verify that the refresh rate is set correctly in your operating system's display settings.
- **Color Issues:**
  - Adjust color settings (brightness, contrast, color temperature) in the OSD menu.
  - Ensure HDR is enabled or disabled as desired in both the monitor's OSD and your device's settings.
  - Reset the monitor to factory default settings via the OSD menu.
- **No Sound from Speakers:**
  - Check the volume level on the monitor and your connected device.
  - Ensure the audio output is correctly routed to the monitor in your device's sound settings.
  - If using the earphone jack, ensure headphones are properly plugged in.

7. Specifications

Feature	Specification
Model Number	27M1
Screen Size	27 Inches
Resolution	2560 x 1440 Pixels (QHD Wide 1440p)

Feature	Specification
Refresh Rate	210Hz (OC) via DisplayPort 1.4, 144Hz via HDMI 2.0
Response Time	1ms (MPRT)
Panel Type	Fast IPS
Aspect Ratio	21:9
Color Gamut	130% sRGB
Colors Supported	1.07 Billion
Contrast Ratio	1000:1
Brightness	450 cd/m²
HDR Support	Yes
Speakers	Built-in Dual 2W Speakers
Connectivity	DisplayPort 1.4 x2, HDMI 2.0 x2, USB 2.0 x1 (Upgrade only), Earphone x1
VESA Mount	100 x 100 mm
Ergonomics	Height Adjustment (150±5mm), Tilt (-5°~35°), Swivel (-60°~60°), Pivot (-5°~90°)
Eye Care Features	Low Blue Light, Flicker-Free
Product Dimensions	8.03 x 24.09 x 21.18 inches
Item Weight	12.54 pounds

8. Warranty and Support

KTC provides a three-year warranty for the 27M1 monitor. For any issues or inquiries, please contact Ktcmonitor-Official customer support. They aim to respond within 12 hours.
You can typically find contact information on the seller's page or through your purchase platform.

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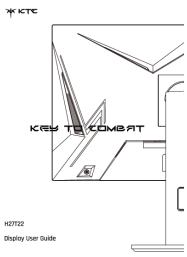
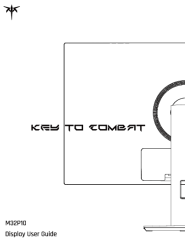
	KTC H27T22 Display User Guide User guide for the KTC H27T22 display, covering product introduction, installation, operation, troubleshooting, and technical specifications.
	KTC M32P10 Display User Guide User guide for the KTC M32P10 display, covering safety precautions, installation, connection, operation, troubleshooting, and technical specifications. This 32-inch 4K UHD MiniLED gaming monitor features 144Hz refresh rate, 1ms response time, HDR1000, and multiple connectivity options including HDMI, DP, USB, and Type-C.
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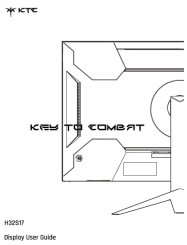	KTC H32S17 31.5-inch QHD 165Hz Gaming Monitor User Guide Comprehensive user guide for the KTC H32S17 31.5-inch QHD 165Hz gaming monitor, covering installation, operation, troubleshooting, and technical specifications.
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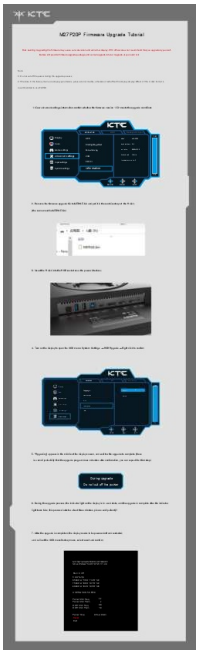	KTC M27P20P Firmware Upgrade Tutorial A step-by-step guide for upgrading the firmware on the KTC M27P20P monitor. Includes instructions on preparing the USB drive, performing the upgrade, and resetting the monitor.