INNOCN GA27T1M

INNOCN GA27T1M 27-Inch 1440p 320Hz Mini LED Monitor User Manual

Your comprehensive guide to setup, operation, and maintenance.

1. Introduction

Thank you for choosing the INNOCN GA27T1M 27-inch 1440p 320Hz Mini LED Monitor. This manual provides detailed instructions to help you set up, operate, and maintain your new monitor. Please read this manual thoroughly before use to ensure optimal performance and longevity of your device.

Key Features:

- **27-inch 2K QHD (2560x1440p) Display:** Experience sharp visuals with a high-resolution screen.
- **320Hz Refresh Rate & 1ms Response Time:** Enjoy ultra-smooth motion and minimal input lag, ideal for gaming.
- **Mini-LED Backlight Technology:** Features 1152-zone local dimming and up to 1000 nits peak brightness for superior contrast and HDR1000 support.
- **MPCS Technology:** Moving Picture Clear and Smooth Motion for enhanced visual clarity in dynamic scenes.
- **VRR Support:** Automatically adjusts the display's refresh rate to match the video source, reducing screen tearing and stuttering.
- **Wide Color Gamut:** 100% sRGB for accurate and vibrant color reproduction.
- **Connectivity:** Equipped with HDMI 2.1 and DisplayPort 1.4 for broad compatibility with PCs and gaming consoles.
- **Ergonomic Stand:** Offers height, swivel, pivot, and tilt adjustments for comfortable viewing.
- **Eye-Care Features:** Blue light reduction and flicker-free technology to minimize eye strain.

2. Package Contents

Please verify that all items are present in your package. If any items are missing or damaged, contact INNOCN customer support.

- INNOCN GA27T1M Monitor Display
- Monitor Stand (Base and Neck)
- Power Adapter and Cable

- HDMI Cable
- DisplayPort (DP) Cable
- USB-B to USB-A Cable (for USB Hub functionality)
- User Manual

3. Setup Instructions

3.1 Assembling the Stand

1. Carefully remove the monitor and stand components from the packaging.
2. Attach the stand neck to the monitor panel by aligning the mounting points and securing with screws if provided.
3. Connect the stand base to the stand neck, ensuring it clicks into place or is secured with the provided thumb screw.
4. Place the assembled monitor on a stable, flat surface.



Figure 3.1: Front view of the INNOCN GA27T1M monitor with its stand.

3.2 Connecting the Monitor

Connect the necessary cables to the corresponding ports on the back of the monitor and your computer or gaming console.

- **Power:** Connect the power adapter to the DC input port on the monitor and then to a power outlet.
- **Video Input:** Connect either an HDMI cable (to HDMI 1 or HDMI 2) or a DisplayPort (DP) cable to the respective port on the monitor and your device.
- **USB Hub:** To enable the monitor's USB-A ports, connect the USB-B to USB-A cable from the monitor's USB-B port to a USB-A port on your computer.
- **Audio Output:** If desired, connect external speakers or headphones to the 3.5mm audio output jack.



Figure 3.2: Rear view of the monitor displaying connectivity ports including HDMI, DisplayPort, USB Hub, Audio, and DC power input.

[redacted]

Video 3.1: This video demonstrates the physical setup, including connecting the DisplayPort cable and showcasing the monitor's design and features.

4. Operating the Monitor

4.1 Power On/Off

Press the power button, usually located on the back or bottom right of the monitor, to turn the monitor on or off. The power indicator light will illuminate when the monitor is on.

4.2 On-Screen Display (OSD) Menu Navigation

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



Figure 4.1: Example of the OSD menu interface, showing options for picture mode, game settings, and more.

4.3 Adjusting Display Settings

Within the OSD menu, you can customize settings such as:

- **Brightness/Contrast:** Adjust the overall luminance and difference between light and dark areas.
- **Color Settings:** Fine-tune color temperature, gamma, and color space (sRGB, DCI-P3, Adobe RGB).
- **Picture Mode:** Select from various presets like Standard, Movie, FPS, RTS, MOBA, Mac-View, and E-Book modes.
- **Input Source:** Manually select between HDMI 1, HDMI 2, or DisplayPort.

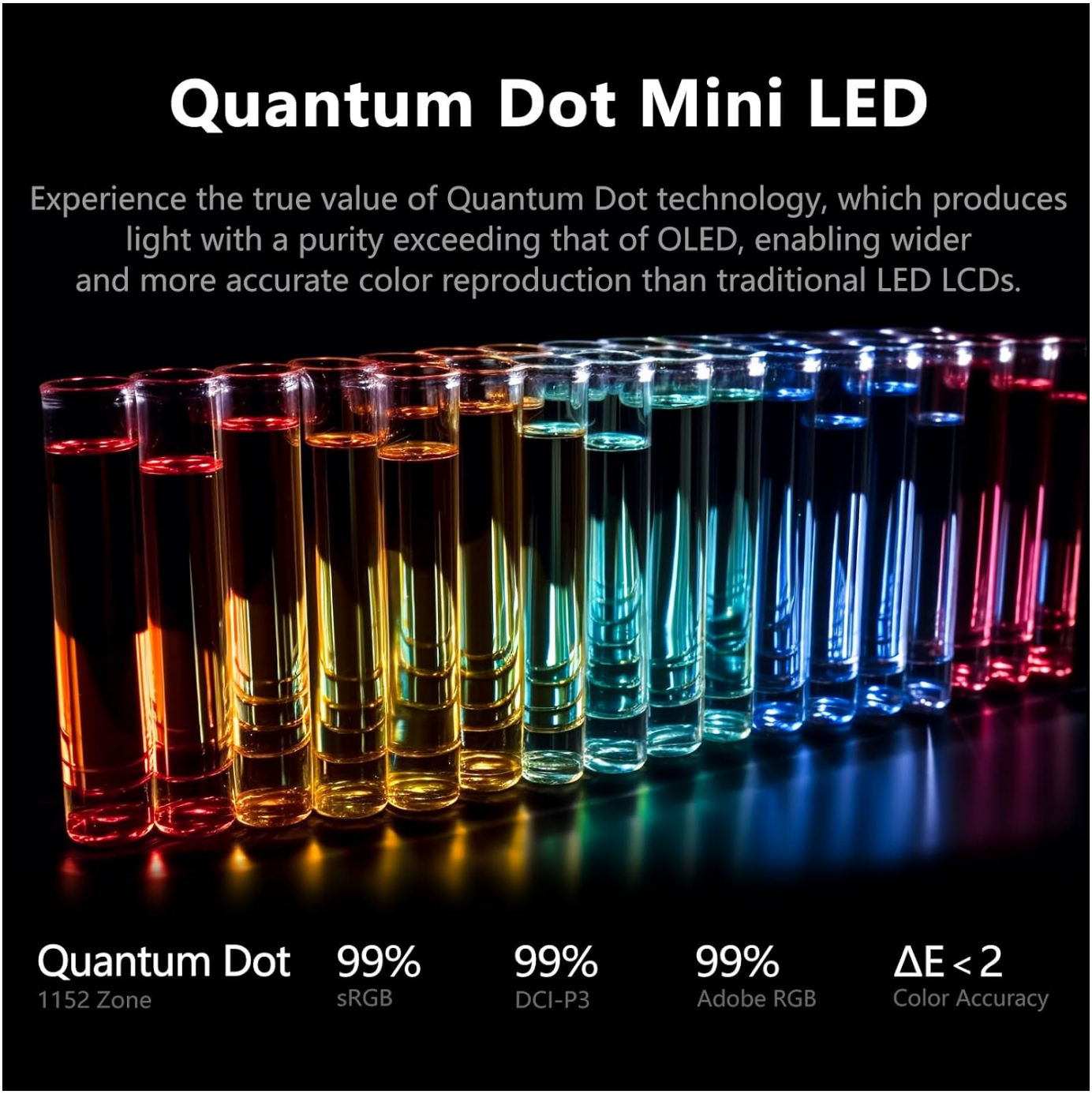


Figure 4.2: Visual representation of Quantum Dot Mini LED technology, highlighting 1152 zones, 99% sRGB, 99% DCI-P3, 99% Adobe RGB, and Delta E < 2 color accuracy.

4.4 Gaming Features

The GA27T1M monitor is equipped with features to enhance your gaming experience:

- **MPCS/ULL (Moving Picture Clear and Smooth / Ultra Low Latency) FPS Mode:**Optimized for fast-paced games, this mode reduces screen ghosting and enhances clarity.
- **MPCS/LD (Moving Picture Clear and Smooth / Local Dimming) MOBA/3A Mode:**Enhances brightness and contrast for more immersive visuals in games with varied lighting.
- **VRR (Variable Refresh Rate):** Automatically synchronizes the monitor's refresh rate with your GPU's frame rate to eliminate screen tearing and stuttering.



Figure 4.3: Demonstrates the visual improvement with MPCS Gaming Assistance enabled, showing reduced motion blur and ghosting in a gaming scenario.

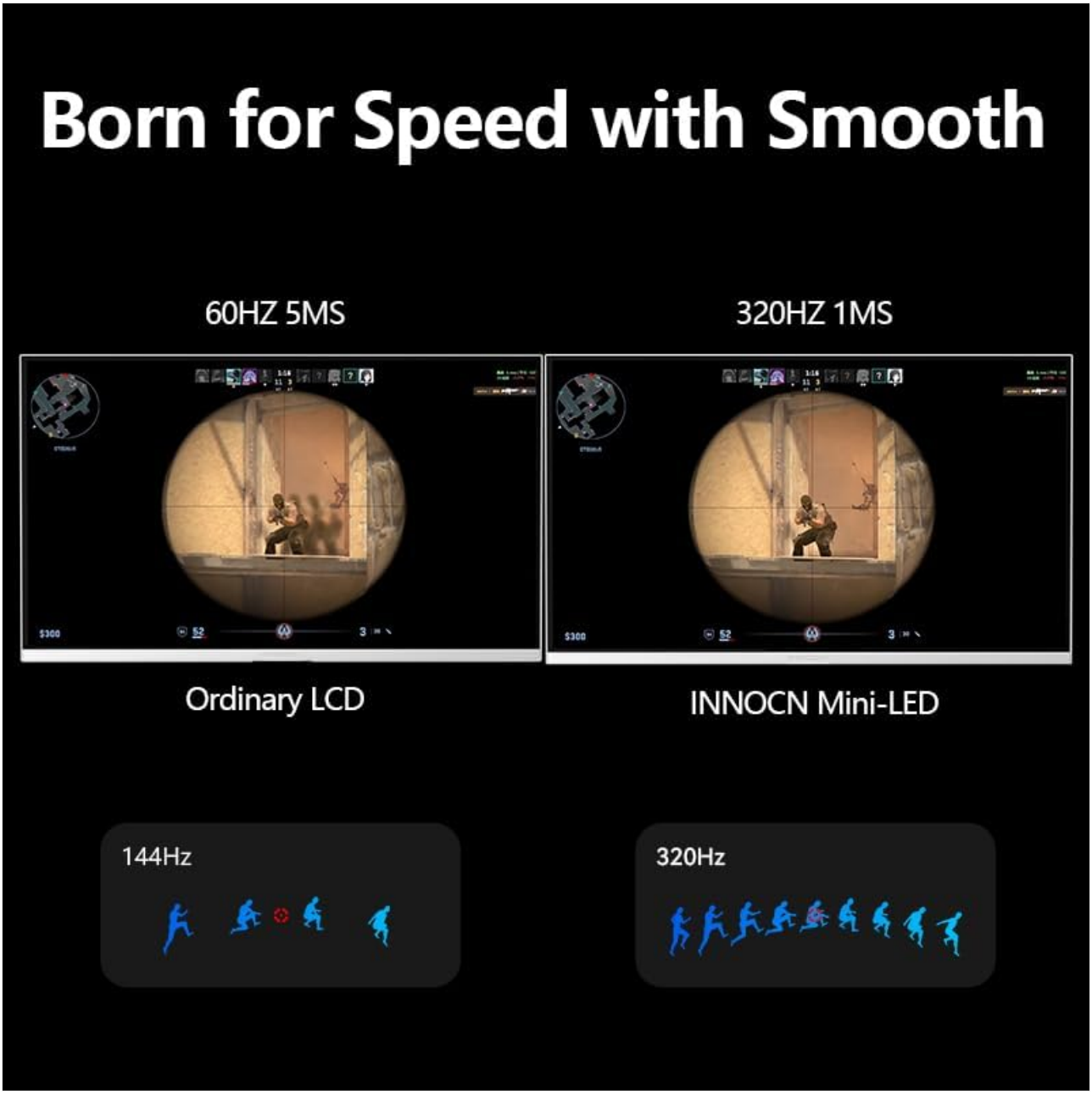


Figure 4.4: Illustrates the difference between a standard LCD (60Hz 5ms) and the INNOCN Mini-LED (320Hz 1ms) in terms of motion clarity and responsiveness.

4.5 Mac-View Mode

The integrated Mac-View mode is designed to optimize display settings for Apple MacBooks (M5, M4 Pro/Max), providing a color-accurate and visually pleasing experience.





Figure 4.5: The monitor in Mac-View mode, connected to a MacBook, showcasing optimized display for macOS environments.

4.6 Physical Adjustments

The ergonomic stand allows for various adjustments to achieve your preferred viewing angle:

- **Height Adjustment:** Raise or lower the monitor to eye level.
- **Swivel:** Rotate the monitor horizontally left or right.
- **Pivot:** Rotate the monitor vertically (portrait mode).
- **Tilt:** Adjust the screen angle forwards or backwards.

5. Maintenance

5.1 Cleaning the Screen

To clean the monitor screen, gently wipe it with a soft, lint-free cloth. For stubborn marks, lightly dampen the cloth with water or a screen-specific cleaning solution. Avoid using harsh chemicals, abrasive materials, or spraying liquid directly onto the screen.

5.2 General Care

- Keep the monitor away from direct sunlight, excessive heat, and humidity.
- Ensure proper ventilation around the monitor to prevent overheating.
- Avoid placing heavy objects on the monitor or its cables.
- Unplug the monitor from the power outlet during lightning storms or when unused for extended periods.

6. Troubleshooting

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

Problem	Possible Cause	Solution
No Power	Power cable not connected; Power outlet not working.	Ensure power cable is securely connected to monitor and outlet. Test outlet with another device.
No Signal	Video cable not connected; Incorrect input source selected.	Check HDMI/DP cable connections. Use OSD menu to select correct input source. Ensure computer/console is on.
Flickering Screen	Incorrect refresh rate; Faulty cable; Graphics driver issue.	Adjust refresh rate in OS display settings. Try a different video cable. Update graphics drivers.
Image Ghosting/Blur	MPCS/ULL mode not enabled; Response time setting.	Enable MPCS/ULL mode in OSD game settings. Adjust overdrive/response time settings if available.
Dead Pixels	Manufacturing defect.	Refer to warranty policy for pixel defect guidelines.

If the problem persists after trying these solutions, please contact INNOCN customer support.

7. Specifications

Feature	Specification
Model Number	GA27T1M

Feature	Specification
Screen Size	27 Inches
Resolution	2560 x 1440 Pixels (QHD Wide 1440p)
Refresh Rate	Up to 320Hz
Response Time	1ms
Panel Type	IPS with Mini-LED Backlight
Local Dimming Zones	1152 Zones
Peak Brightness	1000 Candela (nits)
HDR Support	HDR1000
Color Gamut	100% sRGB
Aspect Ratio	16:9
Connectivity	HDMI 2.1 (x2), DisplayPort 1.4 (x1), USB Hub (USB-A x2, USB-B x1), Audio Out (3.5mm)
VESA Mount Compatible	100x100 mm
Product Dimensions (without stand)	2 x 24.13 x 14.17 inches
Item Weight (without stand)	11.66 lbs (5.29 kg)

8. Warranty and Support

8.1 Product Warranty

INNOCN provides a 1-year product quality service for the GA27T1M monitor from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use.

8.2 Customer Support

For any product or order-related issues, technical assistance, or warranty claims, please contact INNOCN customer support. Our team is available 7 days a week, 24 hours a day, to provide quick solutions.

Contact Information:

- **Website:** www.innocn.com
- **Email:** support@innocn.com
- **Phone:** (Refer to your region's INNOCN website for local contact numbers)

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

How can I adjust the brightness on my INNOCN GA27T1M monitor when using a PS5 or Nintendo Switch, as the brightness adjustment is currently unavailable?

If you are unable to adjust the brightness on your INNOCN GA27T1M monitor while using a PS5 or Nintendo Switch, it is likely due to certain display modes or features being active that lock...

Read full answer