



LCD Information Center Users' Manual

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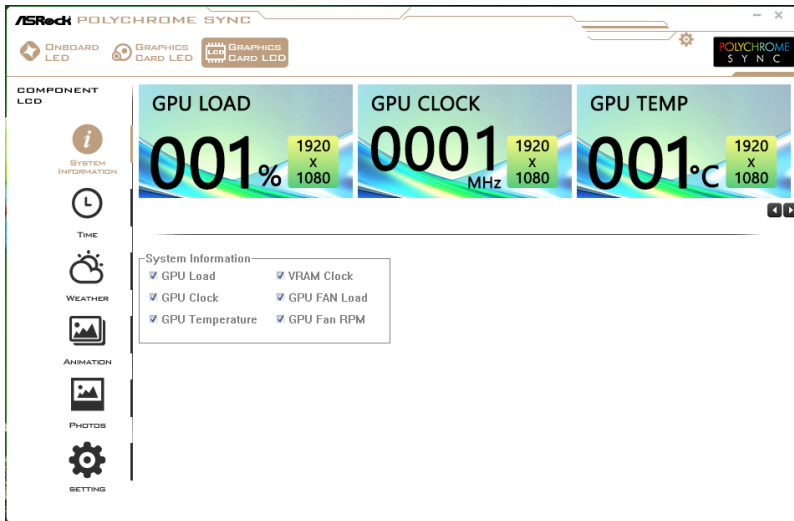
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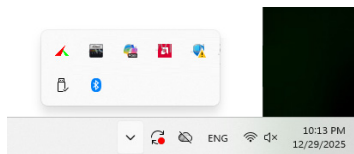
ASRock Polychrome SYNC: Graphics Card LCD

Welcome to the ASRock Polychrome SYNC control utility. This manual specifically covers the Graphics Card LCD tab, which allows you to customize the built-in display on your high-end ASRock graphics card. Use this tool to monitor system status, display time and weather information, or showcase personal images and animations on the graphics card LCD.



System Requirements

- Operating System: Windows 11.
- Connectivity: Active internet connection is required for weather updates.
- Application Status: The Polychrome SYNC application must be enabled and running in the background to update real-time data on the LCD.



Chapter 1. Installing ASRock Polychrome SYNC Utility

1. Download the Software

You can download the ASRock Polychrome SYNC utility from the ASRock Live Update & APP Shop or from our official website at <https://www.asrock.com>.

To do this, go to the product page of your specific motherboard or graphics card, select the "Support" tab, then click "Download" to find and download the ASRock Polychrome SYNC software.

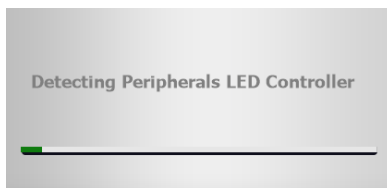
2. Install the Software

Once the download is complete, unzip the file and run the installer. Follow the on-screen instructions to complete the installation process.

3. Launch Polychrome SYNC

After the software is successfully installed, open the Polychrome SYNC application to begin customizing your lighting effects and LCD information.

Once launched, the software will automatically detect compatible RGB devices connected to the system. Please wait patiently until the main interface appears.



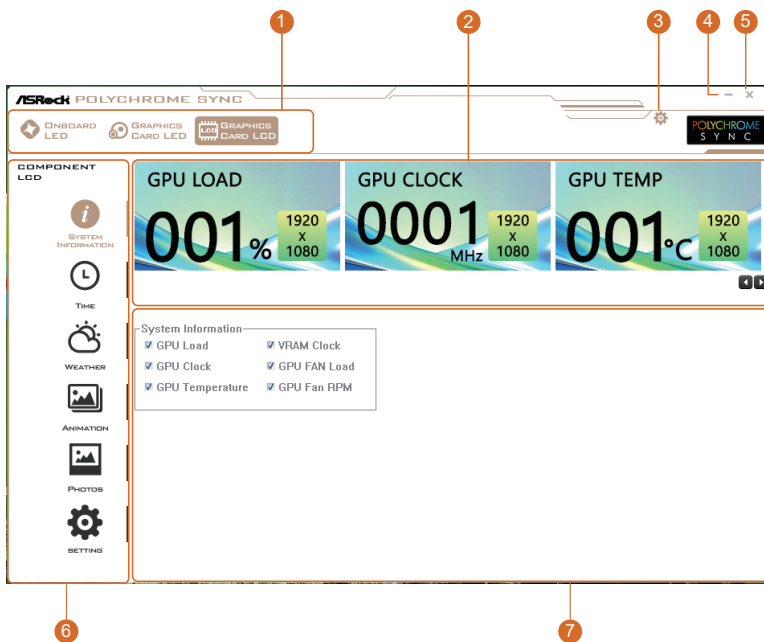
Chapter 2. Interface Overview

At the top of the application, ensure that Graphics Card LCD is selected.



The Graphics Card LCD tab appears only when you have a supported graphics card with LCD feature installed in your system.

In this panel, you can personalize what to display on your physical Graphics Card LCD screen.



No.	Item	Description
1	Device Category Tabs	The software automatically detects compatible RGB devices, including ASRock motherboard zones, ASRock graphics card, ASRock monitors, ASRock ARGB module, other compatible devices, and Razer Chroma RGB devices. Tabs are displayed dynamically based on the devices detected.
2	Preview Window	Displays a preview of the content shown on the physical Graphics Card LCD screen. Left and right arrow buttons are available for navigating through images.
3	Settings	Allows users to view the current software version and to enable or disable the "Auto-run on Windows startup" option.
4	Minimize	Minimizes the application window to the taskbar.
5	Close	Closes the application window and running in the background.
6	Display Modes / Settings	Select a display mode to customize its settings, including System Information, Time, Weather, Photos, and Animation. The Settings page is used for configuration only and is not included in the playback loop.
7	Configuration Area	Configure the related settings for the selected display mode.

2.1 Display Modes

There are up to five categories of information (Display Modes) that can be displayed on the ASRock Graphics card's LCD screen in the following order and loop sequence.

Users can select a mode to configure its settings:

- System Information: Real-time hardware monitoring.
- Time: Local and global clock displays.
- Weather: Current and forecast weather conditions.
- Photos: Personalized visual content.
- Animation: Personalized animated content.
- Setting: Display preferences.

When multiple display modes are enabled, the LCD cycles through the modes in the following order: System Information, Time, Weather, Photos, and Animation.

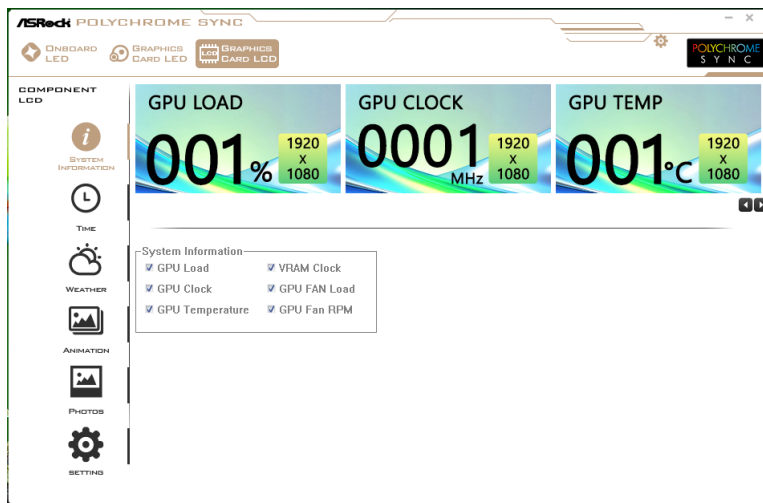
Within each display mode, items checked earlier will appear earlier in the playback sequence.

By default, each image is displayed for 3 seconds before switching to the next one. The display interval can be customized in the Settings page.

If no mode is enabled, the Graphics Card LCD will play the default boot animation.

2.1.1 System Information

The LCD can display the real-time performance metrics of your GPU, allowing users to monitor the system status.



Check the boxes next to the items you wish to see. The preview window displays how the content will appear on the Graphics Card LCD screen. Left and right arrow buttons are available for navigating through images.

The features will be displayed on the LCD in the order they are selected. Items checked earlier will appear earlier in the playback loop.

There are up to six metrics that can be displayed, as follows.

Core Metrics

- GPU Load (%): Current GPU utilization percentage
- GPU Clock (MHz): Current operating frequency of the GPU core
- GPU Temperature (°C/°F): Current GPU temperature

Fan & Memory

- VRAM Clock: Current operating frequency of the video memory
 - GPU Fan Load: Current GPU fan workload
 - GPU Fan RPM: Current rotational speed of the GPU fan
-

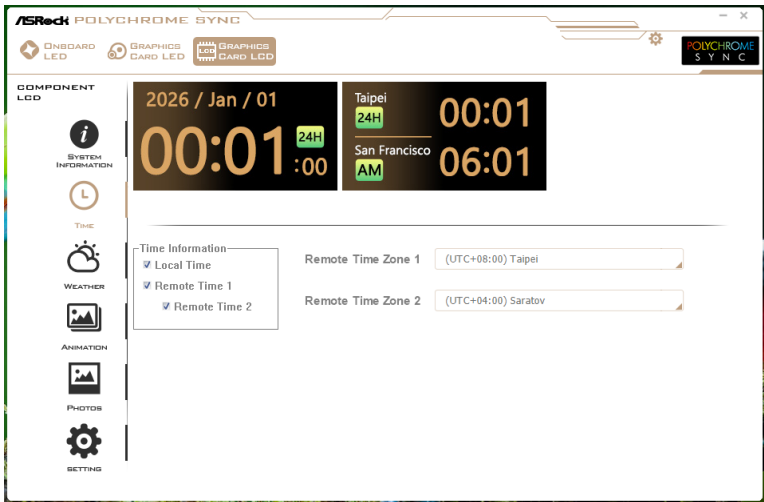


Please note that data capture of the monitor resolution (e.g., 1920 x 1080) is limited to the Primary Monitor (Monitor 1) only. Resolution information will not be retrieved from a secondary monitor.

2.1.2 Time

The LCD can display the current time, allowing users to keep track of time globally or locally.

The time mode will sync with local system time or display up to two remote time zones as configured.



Check the boxes for "Local Time," "Remote Time 1," or "Remote Time 2" to enable them. The preview window displays how the content will appear on the Graphics Card LCD screen. Time display type can be adjusted in the Settings page.

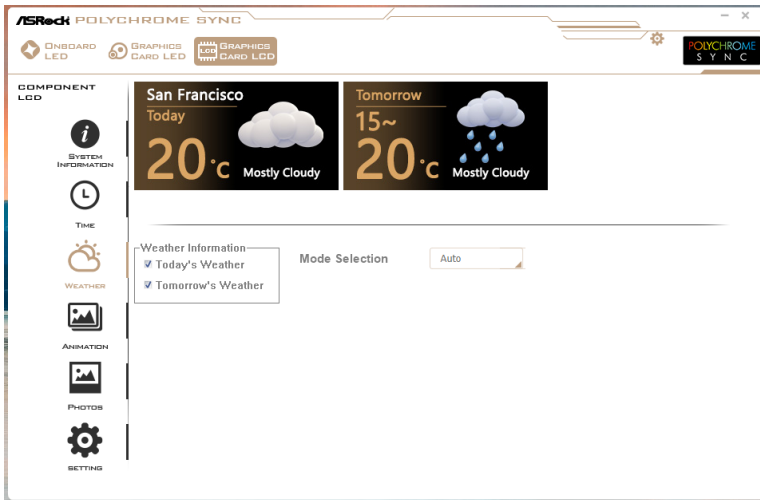
- Local Time: Displays the current time based on your PC's system clock.
- Remote Time: You can enable up to two additional time zones to track time for other regions. Use the dropdown menus to select specific cities or UTC offsets.

2.1.3 Weather

The LCD can display the current weather conditions and forecast for a selected city.



An active internet connection is required for Weather mode. Weather data synchronization depends on network availability. If the network is unavailable, the weather feature will not be available.



Select "Today's Weather" or "Tomorrow's Weather" to enable them.

The preview window displays how the content will appear on the Graphics Card LCD screen, including the temperature, city name, and the type of weather (e.g., Mostly Cloudy). Temperature unit (°C / °F) can be adjusted in the Settings page.

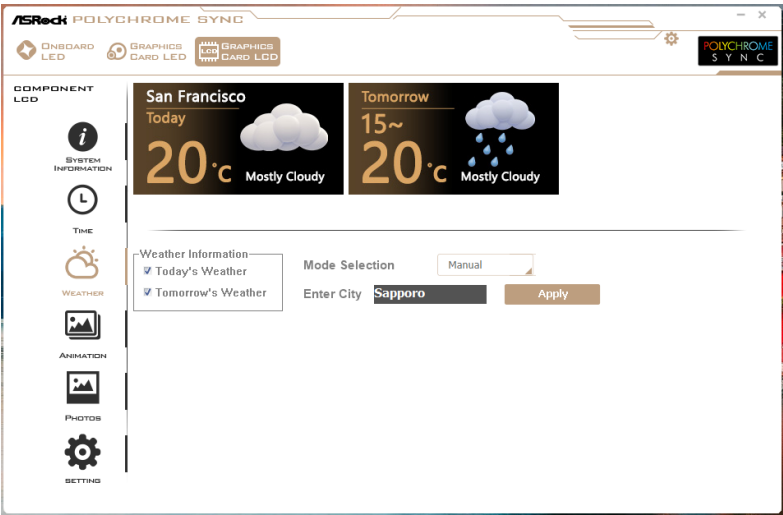
Mode Selection:

- Auto Mode: Detects location based on your IP address.

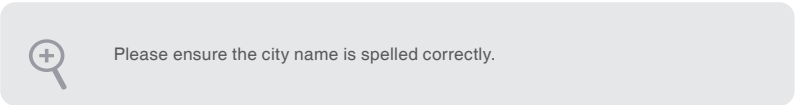


Auto-detection may have geographical deviations due to IP routing.

- Manual Mode: Set to Manual to specify a location for precise weather reporting.

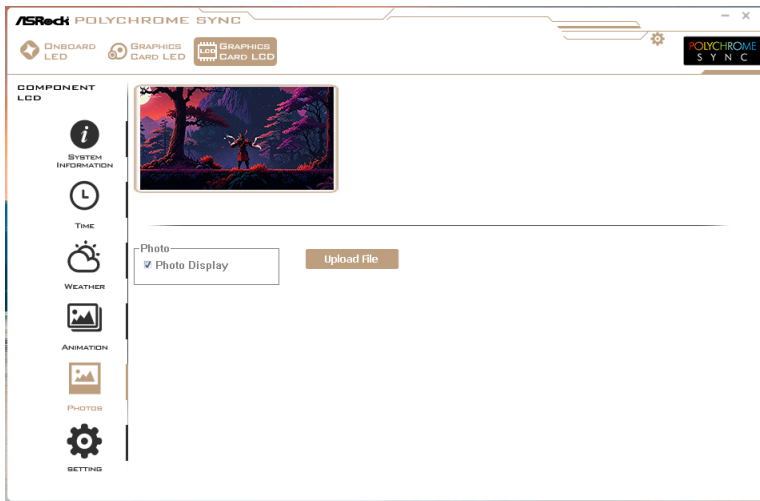


Type your city name in the text box and click Apply to update the data.



2.1.4 Photos

The LCD can display the photos you upload. In this mode, you can personalize your graphics card with custom imagery.



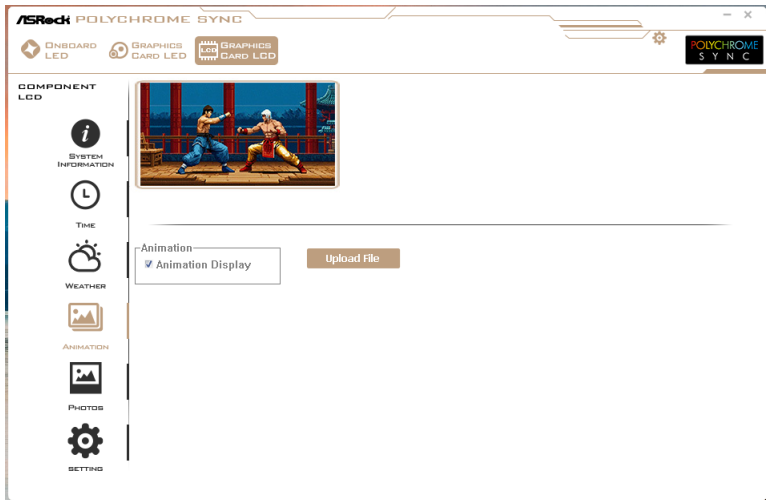
Check the "Photo Display" box to enable this mode, and click the Upload File button to select a static image from your computer. The preview window displays how the content will appear on the Graphics Card LCD screen.

Media Specifications:

- Maximum Resolution: 320 × 170 pixels.
- File Formats: GIF, PNG, JPG, BMP
- File Size Limits: GIF: 1.4MB / JPG, PNG, BMP: 450KB

2.1.5 Animation

The LCD can display animated content you upload. In this mode, you can personalize your graphics card with dynamic visuals.



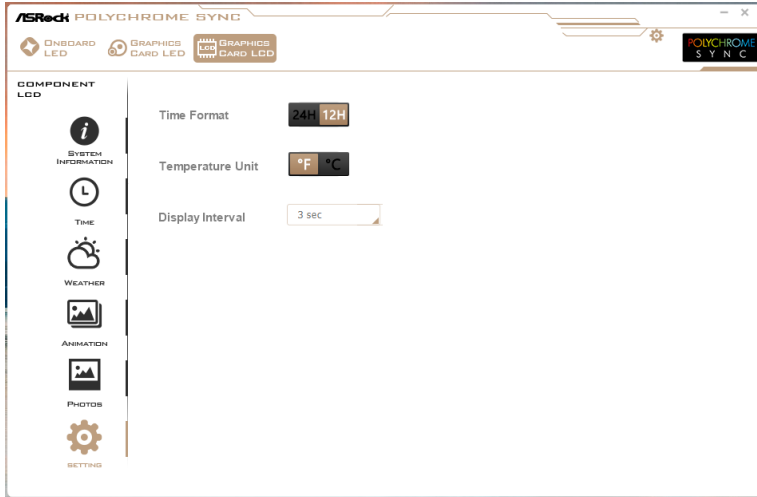
Check the "Animation Display" box to enable this mode, and click the Upload File button to upload GIF files for dynamic visual. The preview window displays how the content will appear on the Graphics Card LCD screen.

Media Specifications:

- Maximum Resolution: 320 × 170 pixels.
- File Formats: GIF
- File Size Limits: 1.4MB

2.1.6 Settings

The Settings page allows you to configure the display behavior and general preferences for the Graphics Card LCD. Here, you can customize the time format, temperature unit, and the display interval for each mode.



Click the Setting icon at the bottom of the sidebar to configure the display behavior:

- Time Format: Toggle between 24H (Military time) and 12H (AM/PM).
- Temperature Unit: Choose between Celsius (°C) and Fahrenheit (°F).
- Display Interval: Set the duration (3s to 7s) for each screen before it cycles to the next image.

Changes made in this page will take effect immediately and apply to all active display modes.

2.2 Troubleshooting

- If the Graphics Card LCD does not update, ensure Polychrome SYNC is running in the background.
- Verify that your graphics card model supports the LCD feature.