

# Digital View AI-Ready LCD Controller

# Overview

Digital View LCD controller boards can be operated using natural-language instructions via any major LLM (ChatGPT, Llama, Gemini). The Windows-based AI DV Controller application converts user natural language text into RS-232 or DDC/CI commands to control display functions.

## What You Need

- Windows 10/11 PC
- AI-DV-controller setup application, currently [AI-DV-controller-v2.3-setup.exe](#)
- USB-to-RS232 converter cable
- Digital View LCD controller board and LCD panel

## Setup

1. Connect the USB-RS232 cable between the PC and the controller board.
2. Install the AI-DV-controller application (ensure the installation folder has user write access).
3. Launch the application and configure:
  - **API Configuration:** LLM endpoint, API key, model name.
  - **Port Configuration:** Select the COM port detected by Windows.

## How It Works

- Enter a natural language request (e.g., “power off”, “increase brightness”, “who are you”).
- The application sends the text to the configured LLM.
- If the LLM response includes a supported command, the application sends the corresponding RS-232 or DDC/CI command to the controller.
- LED indicators provide visual confirmation of detected actions.

## Supported Command Categories

### RS-232

- Power (on/off)
- Brightness (min/max/normal/set value)
- Contrast (min/max/normal/set value)
- OSD navigation (menu on/off, up/down/left/right)
- Volume (min/max/normal)
- Mute/unmute
- Reset (parameters/all)
- Color temperature presets

### DDC/CI

- Power (on/off)
- Brightness (min/max/normal/set value)
- Contrast (min/max/normal/set value)
- Color temperature presets

## Notes

- Command availability varies by controller model.
- Settings persist if installed in a user-writable folder.
- If the API key does not save, reinstall it in a different folder.

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