Version: 1.05 **Date**: 20 Nov 2025



Application Note

Digital View, Al Ready – Demo 1

Using an LLM AI to control a Digital View LCD controller board

Application Note: GPT-Demo-1 Version: 1.05 Date

Date: 20 Nov 2025



Revision History

Date	Rev No.	Page	Summary
13 Nov 2025	1.00	All	First draft
15 Nov 2025	1.01	All	Minor updates
17 Nov 2025	1.02	6	Explain how to select Port
18 Nov 2025	1.03	All	Add DDC/Cl command support;
			Update screen capture of the new application version
18 Nov 2025	1.04	All	Add an option to select sending either DDC/CI or RS232 command;
			Update screen capture of the new application version
20 Nov 2025	1.05	All	Arrange LED indicators in 4 columns;
			Add appendix for API configuration instructions
			App version 2.3

Application Note: GPT-Demo-1 Version: 1.05 Date

Date: 20 Nov 2025



Contents

Α.	Objectives	4
В.	What You Need	4
C.	Connection & Setup	4
D.	Install the AI DV Controller Application	5
E.	Run the AI DV Controller Application	8
F.	Points to be noted	10
G.	Appendix 1	11
Н.	Appendix 2 - Troubleshooting	12
I.	Contact Details	13

Version: 1.05 **Date**: 20 Nov 2025



A. Objectives

Use the conversational power of an LLM such as ChatGPT, Llama, or Gemini to control the functionality of a Digital View LCD controller board and display.

B. What You Need

- PC running Windows 10 or 11
- Digital View application setup file AI-DV-controller-vX.X-setup.exe
- USB to RS-232 cable, e.g., USB-C to RS-232 converter cable
- Digital View LCD controller board (aka DV controller), e.g., DT-4096, and LCD panel.

C. Connection & Setup

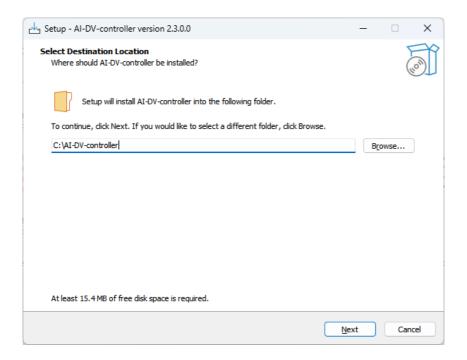
- Connect the USB to RS-232 converter cable to a USB port on the Windows PC and the DB-9 serial port on a DV controller. Then, power on the DV controller.
- Install the Digital View application *AI-DV-controller-vX.X-setup.exe*, see the following Section D.

Version: 1.05 **Date:** 20 Nov 2025



D. Install the AI DV Controller Application

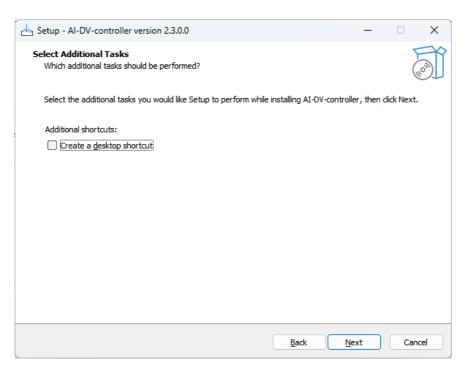
- Run AI-DV-controller-vX.X-setup.exe on the Windows PC
- After the following screen appears, accept or change the installation folder. It is
 important to choose a folder with user access rights (e.g. C:\AI-DV-controller) for
 saving the application's configuration file.
- Click Next button to continue



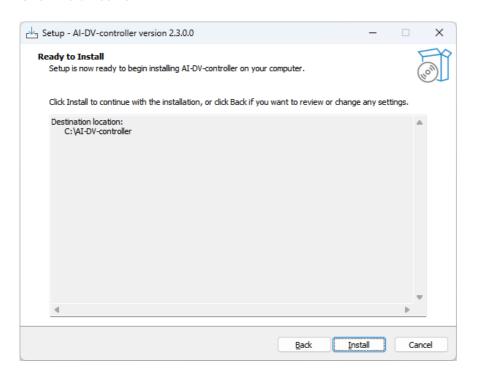
Version: 1.05 **Date:** 20 Nov 2025



• Click Next button again



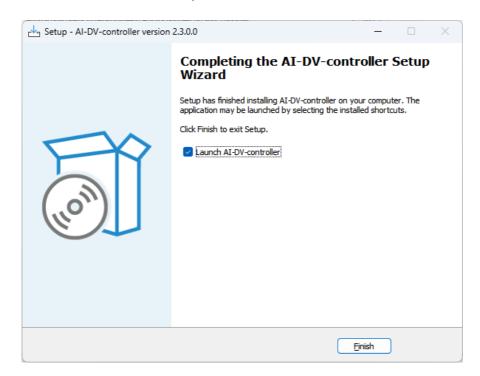
• Click Install button



Version: 1.05 **Date**: 20 Nov 2025



• Click Finish button to complete the installation



Version: 1.05 **Date**: 20 Nov 2025

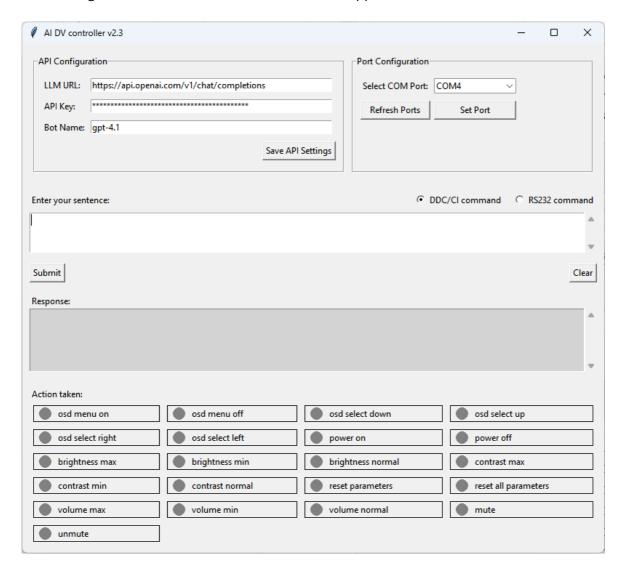


E. Run the AI DV Controller Application

The AI DV Controller Application has a single window, as shown below, with four sections:

- API Configuration: See the appendix for example instructions.
- Port Configuration: Use Windows' Device Manager to find out the newly created COM port just after connecting USB to RS-232 converter, select this COM port from the Select COM Port drop-down list and then click Set Port button
- Text window: For user natural language instructions
- Response window: The LLM text response
- Action indicators: A visual confirmation of the action taken

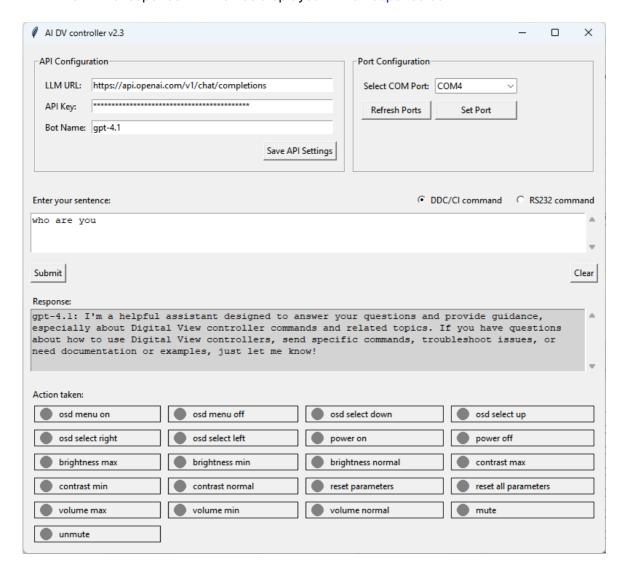
If the application is installed in a folder with user access rights, its settings will be stored in a local configuration file and loaded the next time the application runs.



Version: 1.05 **Date**: 20 Nov 2025



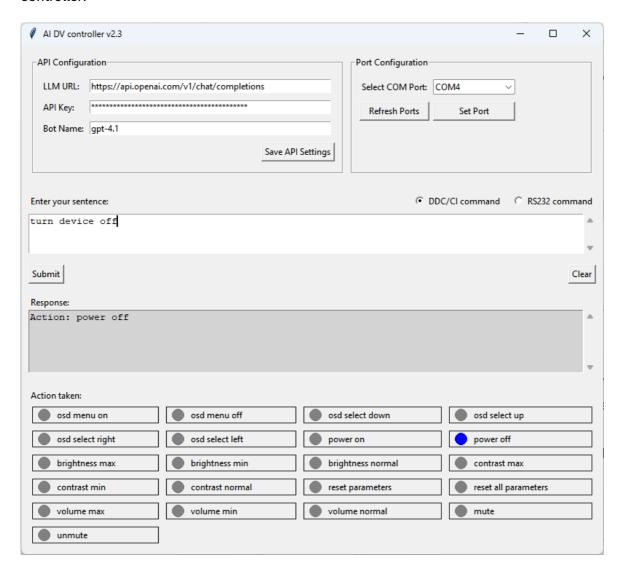
If you enter a normal inquiry (e.g. who are you) in the text box labeled Enter your sentence and then click the Submit button or simply press <Enter>, the message will be sent to the LLM. The LLM's response will then be displayed in the Response box.



Version: 1.05 **Date**: 20 Nov 2025



If you enter a panel operations-related command (e.g. turn device off) in the same text box and then click the Submit button or simply press <Enter>, the corresponding LED in the Action taken section would blink. According to the radio button selection, the application would send either DDC/CI command to the display monitor or RS232 command to the DV controller.



F. Points to be noted

- a) The following RS232 command functions have been enabled. Depending on the model of the Digital View LCD controller board, there may be many more functions that could be enabled.
 - osd menu on
 - osd menu off
 - osd select down
 - osd select up

Version: 1.05 **Date**: 20 Nov 2025



- osd select right
- osd select left
- power on
- power off
- brightness max
- brightness min
- brightness normal
- contrast max
- contrast min
- contrast normal
- reset parameters
- reset all parameters
- volume max
- volume min
- volume normal
- mute
- unmute
- set brightness < number >
- set contrast < number >
- set color temperature <5800K, 6500K, 7500K, 9300K or sRGB>
- b) The following DDC/CI command functions have been enabled. Depending on the model of the Digital View LCD controller board, there may be many more functions that could be enabled.
 - power on
 - power off
 - brightness max
 - brightness min
 - brightness normal
 - contrast max
 - contrast min
 - contrast normal
 - set brightness < number >
 - set contrast < number >
 - set color temperature <5800K, 6500K, 7500K, 9300K or sRGB>

G. Appendix 1

The user should change the default LLM API setting to their own in the API configuration section.

 Edit the LLM URL text box to your own LLM API endpoint For example,

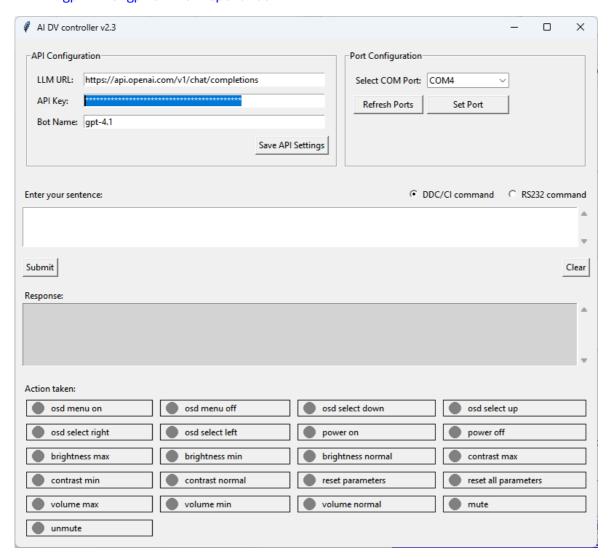
> https://api.openai.com/v1/chat/completions https://generativelanguage.googleapis.com/v1beta/openai/chat/completions https://api.llama.com/v1/chat/completions

Version: 1.05 **Date**: 20 Nov 2025



- Copy and paste your own API key in API Key text box
- Edit Bot Name text box to one of the LLM names provided by the API provider For example,

gpt-4.1 or gpt-5.1 from openai.com



H. Appendix 2 - Troubleshooting

If you enter the API key but it doesn't save, you may need to choose another folder with suitable access rights to allow the system to save the settings.

Version: 1.05 **Date**: 20 Nov 2025



I. Contact Details

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Specifications subject to change without notice

Appnote – Concept for Al Ready on Windows System (18 Nov 2025)