

# AI Vision Assistant

An AI-powered NVDA add-on that captures your screen and identifies every visible, interactive UI element — so blind users can navigate and click even when standard accessibility APIs fail.

## Keyboard Shortcut

Gesture	Action
NVDA + Shift + U	Activate UI Mode — capture screen and list clickable elements

## Supported AI Providers

Provider	Model Used	Config Name
Google Gemini	gemini-1.5-flash	gemini
OpenAI	gpt-4o	openai
Anthropic Claude	claude-opus-4-5	anthropic
Groq API	llama-3.2-90b-vision-preview	groq

## Setup: Entering API Keys

1. Open **NVDA Menu** (Insert + N).
2. Go to **Preferences** → **Settings**.
3. Select **AI Vision Assistant** from the category list.
4. Choose your AI provider from the dropdown.
5. Paste your API key in the corresponding field.
6. Click **Test Connection** to verify the key works.
7. Press **OK** or **Apply** to save.

## How to Get API Keys

- **Google Gemini:** Visit [Google AI Studio](#) and create a free API key.
- **OpenAI:** Visit [OpenAI Platform](#) and generate a key (requires billing).
- **Anthropic Claude:** Visit [Anthropic Console](#) and create an API key.
- **Groq API:** Visit [Groq Console](#) and create a free API key to use their fast models.

## How UI Mode Works

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1. Press `NVDA + Shift + U`.
2. NVDA says "Capturing screen, please wait."
3. The add-on captures your focused window and sends it to the selected AI provider.
4. AI analyzes the image and returns a list of all visible, clickable elements.
5. A dialog opens listing those elements. Use the **Arrow keys** to navigate and **Enter** to select.
6. The add-on performs a mouse click on the selected element and NVDA announces "Clicked: [element name]".

## Troubleshooting

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- **No settings panel in NVDA:** Ensure the add-on is installed in `%APPDATA%\nvda\addons\` and NVDA has been restarted.
- **API key errors:** Use the *Test Connection* button to verify your key. Check `%TEMP%\nvda.log` for details.
- **SSL errors / connection failures:** The add-on bundles `certifi` for SSL. Ensure the `lib/` folder is present inside the add-on.
- **No elements found:** Try pressing the shortcut on a window with visible UI controls, or switch to a different AI provider.

## Requirements

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- NVDA 2023.1 or later
- Windows 10 or 11
- Internet connection (for AI API calls)
- A valid API key from at least one supported provider

## Privacy

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