



User's Guide

GK450 Mechanical Gaming Keyboard

Ver.:1.01

Caution: Read the user's guide for proper installation instructions.

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1 Package Contents and System Requirements

Package Contents

- GK450 gaming keyboard
- Quick setup guide
- Warranty card
- Keycap puller
- Detachable Type-C cable

Product Requirements

- Windows® 7 or above
- Available USB port

AOC G-Menu Requirements

- Windows® 7 or above
- 500MB free hard disk space
- Internet connection

Technical Support

- 2 years limited warranty

Free online technical support at www.aoc.com

2 Technical Specifications

- Pre-lubed AOC mechanical switches, rated for 60 million clicks.
- Light FX Rainbow and RGB LED sidelight
- All key programmable
- Up to 1000Hz/ms report rate
- N-key rollover and 100% anti-ghosting
- Detachable Type-C cable
- Double foldable stands
- On board memory
- 1.8 M PVC cable

Approximate Size & Weight

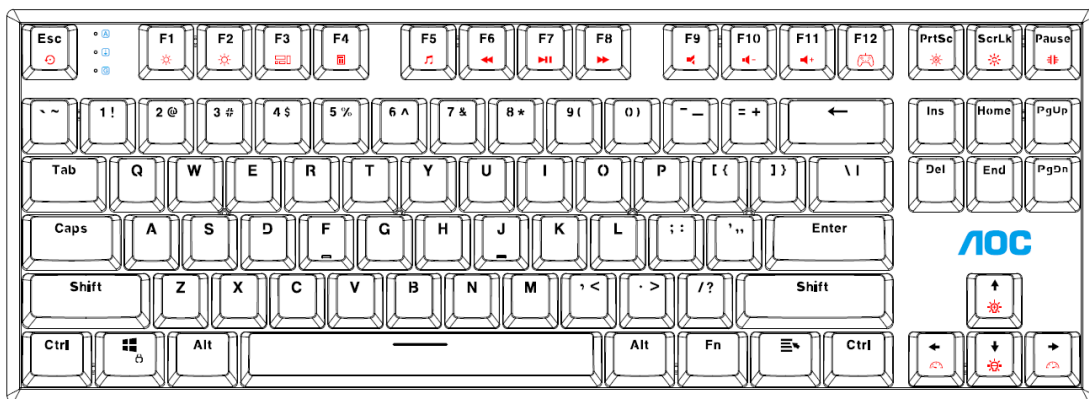
- Length: 355 mm/ 19.38 in
- Width: 128 mm/ 5.04 in
- Height: 40 mm/ 1.57 in

- Weight: 870 g/1.9 lbs
- Cable Length: 1.8 m/ 5.9 ft

Operating Environment

- Operating Temperature: 0 ° C (32 ° F) to 40 ° C (104 ° F)
- Operating Humidity: 10% - 85%

3 Device Layout

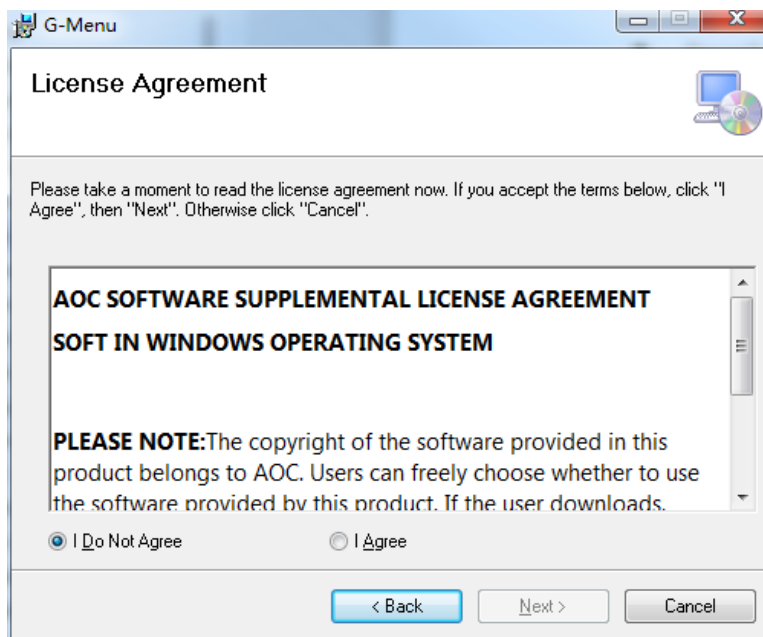


■ Combination Key Function

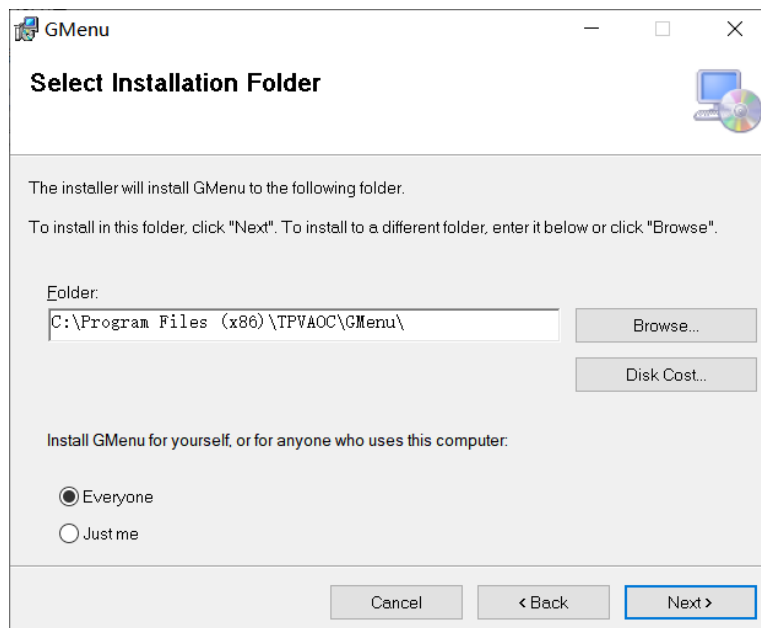
- FN + Esc = Press and hold for 3 seconds to restore factory settings
- FN + F1 = Decrease the brightness of screen
- FN + F2 = Increase the brightness of screen
- FN + F3 = Multitask display
- FN + F4 = Calculator
- FN + F5 = Music
- FN + F6 = Previous
- FN + F7 = Play/Pause
- FN + F8 = Next
- FN + F9 = Mute
- FN + F10 = Volume Down
- FN + F11 = Volume Up
- FN + F12 = Game mode (disable Windows key, Alt+F4, Alt+Tab functions)
- FN + PrtSc = Primary key area light ON/OFF switch
- FN + ScrLk = Primary key area light effect circulation switch
- FN + Pause = Switch side light effects
- FN + Arrow Up = Increase backlight intensity
- FN + Arrow Down = Decrease backlight intensity
- FN + Arrow Left = Accelerate light effect frequency
- FN + Arrow Right = Decelerate light effect frequency
- FN + Windows = Enable or disable Windows lock function

4 Windows Installation

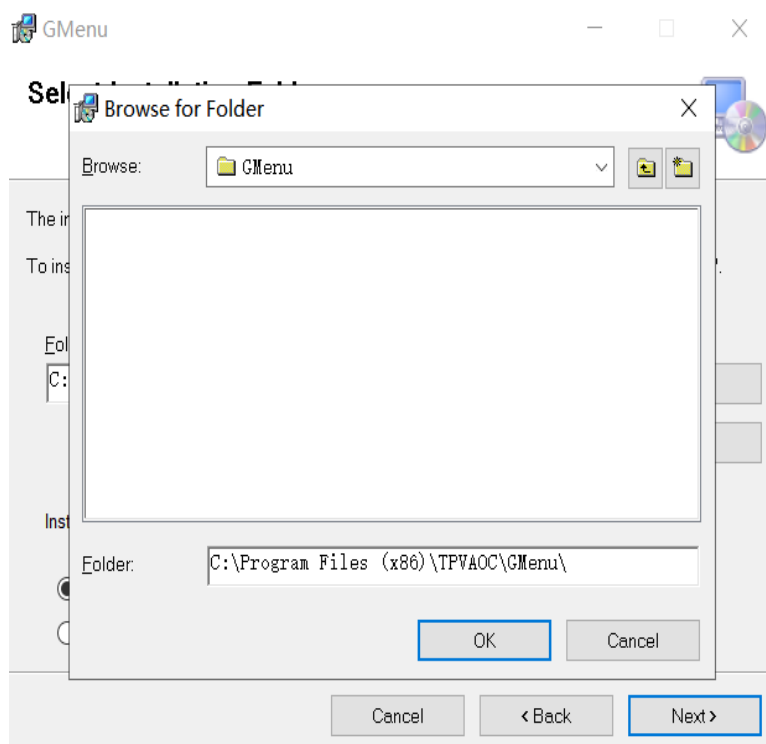
1. Download the AOC G-Menu executable, and double click the **EXE** file to start the installation.
2. Accept the license agreement by selecting the **I Agree** radio button, and clicking the **Next** button.



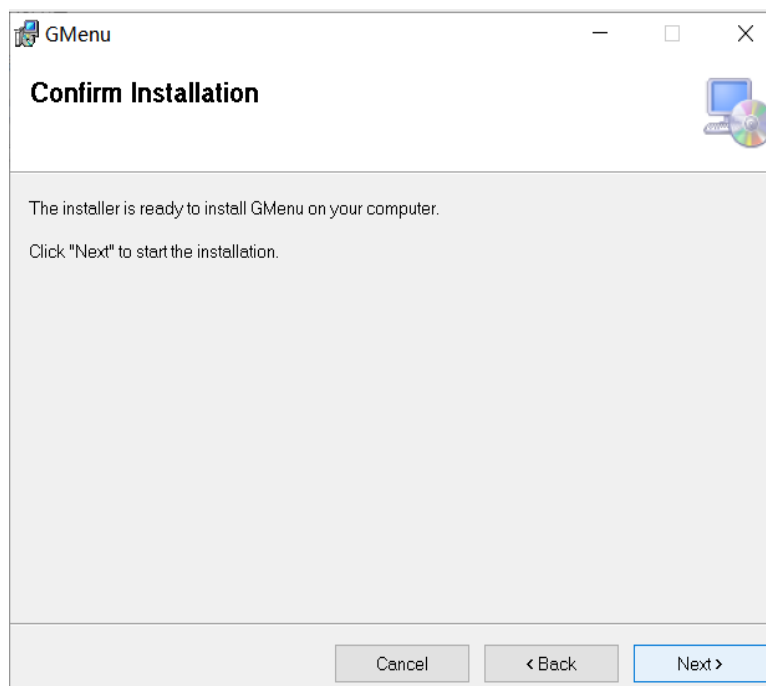
3. Select the installation folder. Select the default folder by pressing the **Next** button.



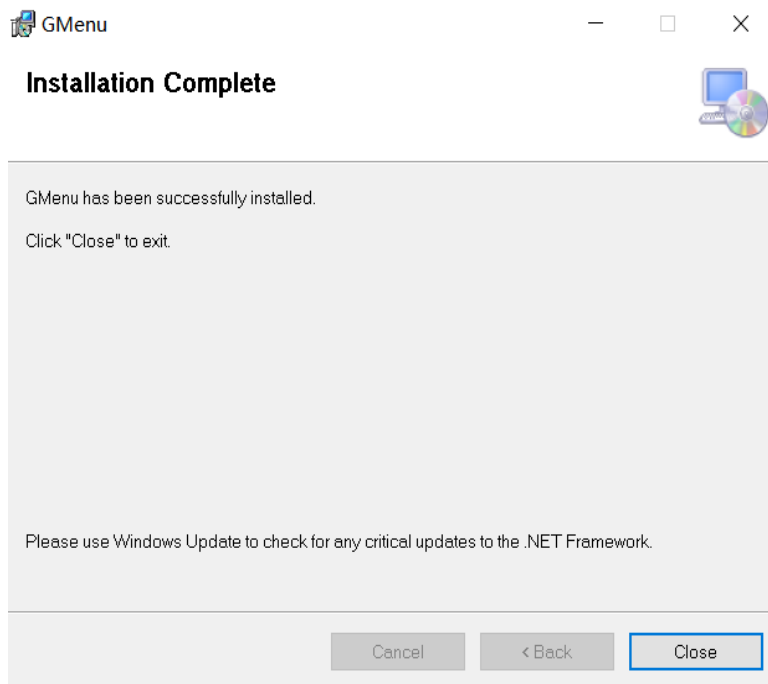
Selecting the **Browse** button will open a **Browse for Folder** dialog box.



4. Confirm Installation by pressing the **Next** button.



5. Complete the installation by pressing the **Close** button. Congratulations on installing G-menu!



To uninstall G-Menu:

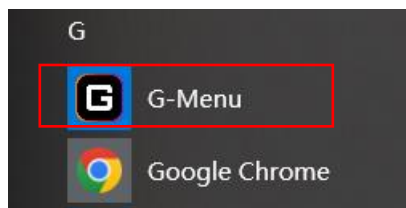
For **Windows 10**: Go to Windows Settings > Apps > Apps and Features > select G-Menu and press the Uninstall button.

For **Windows 7/8/8.1**: Go to Control Panel > Programs > Programs and Features > select G-Menu and press the Uninstall button.

5 Open Methods

There are 3 ways to access the G-Menu application.

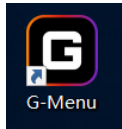
- ① Start Menu>G-Menu



- ② Taskbar>Right click on the taskbar icon

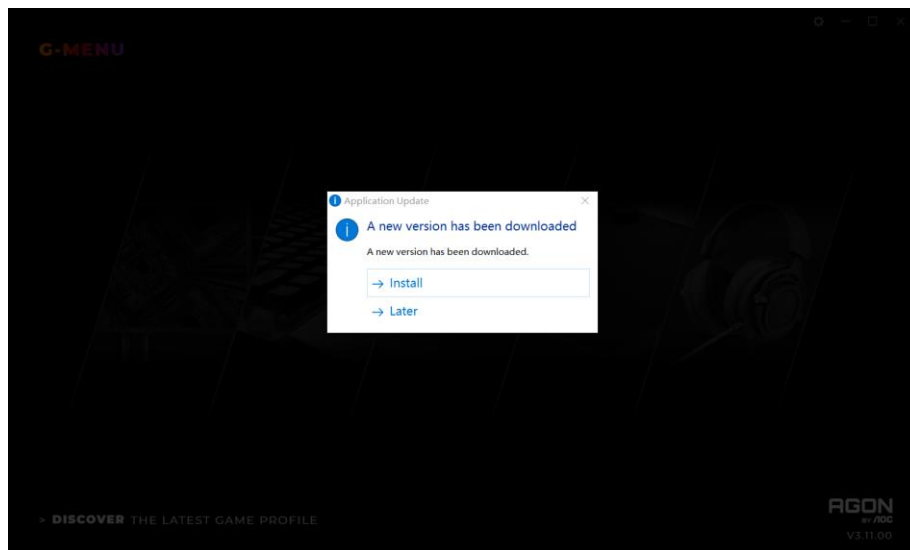


- ③ Shortcut on Desktop



6 Software Update

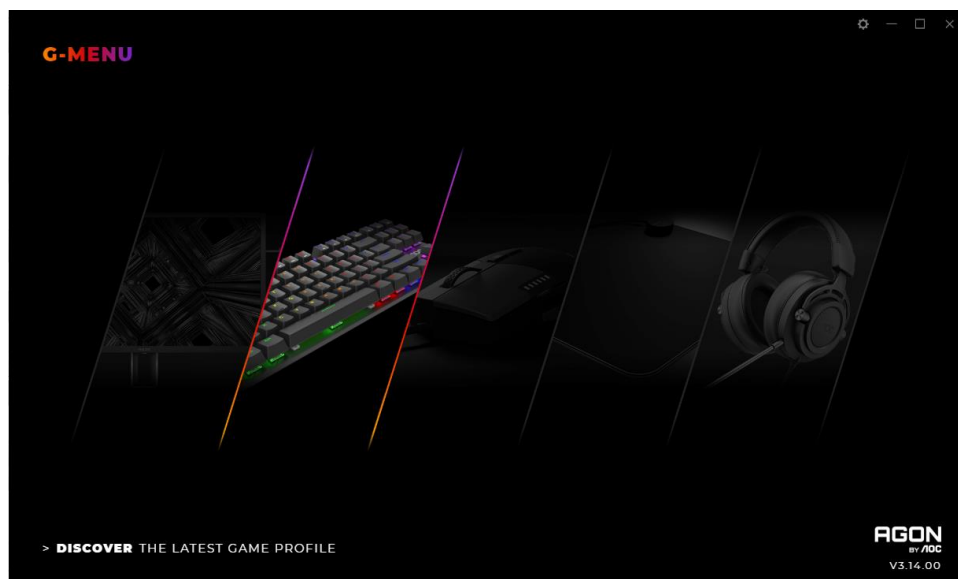
- When you enter the G-Menu home page, the software will automatically check for updates, if there is a new version, it will be downloaded in the background.
- After the download is complete, the interface will alert you to install the update.



- Note: If there is no network connection, G-Menu will not be able to detect updates.

7 Home

- Open AOC G-Menu application and enter the home page.



- 1) **Application name:** Displayed on the top left, not clickable.
- 2) **Brand logo, Software version:** Displayed at the bottom right, not clickable.
- 3) **Minimize/Restore:** Displayed at the top right. Click to switch the interface to zoom in/restore the display.
- 4) **Setting:** Displayed at the top right. Click to enter the setting interface, where you can set the language.
- 5) **Device display:**
 - The device types supported by the current software are displayed by default, including: Monitor, Keyboard, Mouse, Mouse mat, and Headset.
 - Currently connected devices are highlighted and may be clicked. Other device types are grayed out and cannot be clicked.
 - Click on the device icon to enter the device settings interface.
- 6) **Discover**
 - Click the **Discover** button to find the latest game profiles.
- 7) **Close:** Click the **Close** button to close the application interface, the actual application is still running in the background.

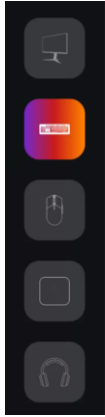
8 Device setting

1. Top Navigation



- G-Menu navigation options: Home, Monitor, Mouse, Keyboard, Mouse mat, Headset, and Macro.
- The names of unconnected devices are greyed out.
- Click an active button to open the device settings interface.
- Click the **Home** button to return to the homepage.

2. Left Navigation



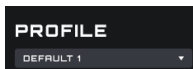
- Navigation buttons are, from top-to-bottom: Monitor, Keyboard, Mouse, Mouse mat, Headset.
- The icons of unconnected devices are hidden.

3. Multi-model



- Click on the **Model** drop-down menu to display a list of devices attached to the system.
- Data will start loading automatically after selecting a model.

4. Select a profile

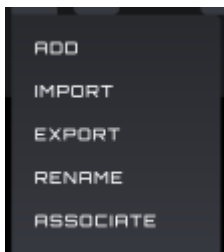


- Click on the **Profile** drop-down menu to display all local profiles.
- After switching the profile, it will be automatically configured on the current board and takes effect in real time.

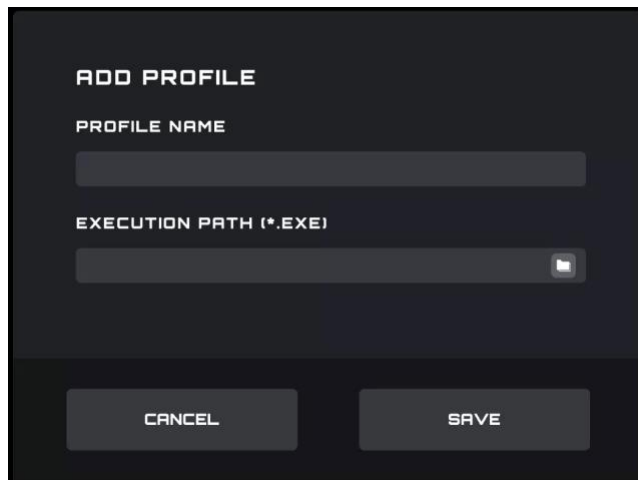
5. More Profile Management



- Click the **Meatball** menu to expand the profile selection item: Add, Import, Export, Rename, and Associate.



A) Add



- Enter the name of the new profile.
- Click the **File** button to open the local executable file or enter the execution path in the input box directly.
- Click the **Save** button to add the profile.
- Click the **Cancel** button to close the pop-up box.

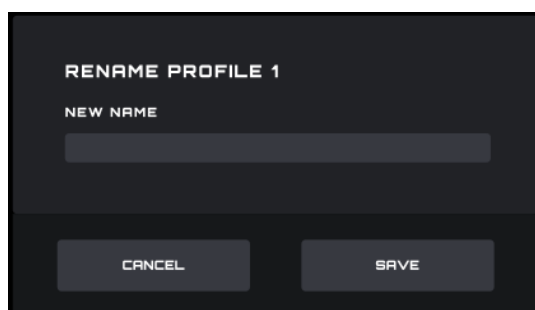
B) Import

- Opens a **File Explorer** dialog box.
- Locate the file to import and select it. Press the **OK** button to import the profile.
- The profile will be imported and populate the currently selected profile. The previous profile will be overwritten with the imported settings.

C) Export

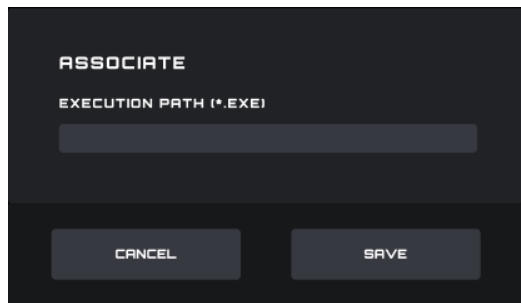
- The export command will only export the settings for the current profile.
- A **Save** dialog box will open, and you may navigate to where you wish to save the file.
- Click the **Save** button to save the exported profile.

D) Rename

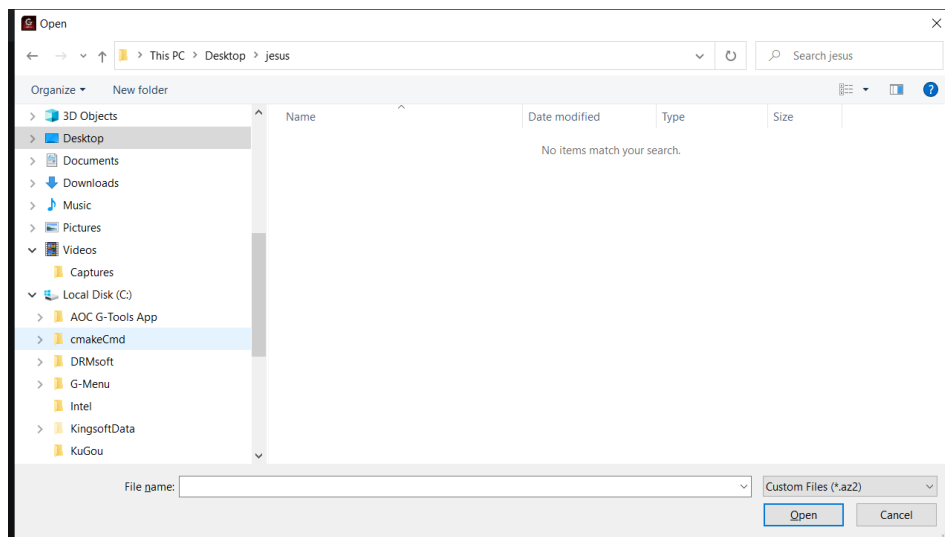


- Change the name of the current profile. It cannot be a duplicate of an existing profile name.
- Click the **Save** button to save the new name.
- Click the **Cancel** button to close the pop-up box.

E) Associate




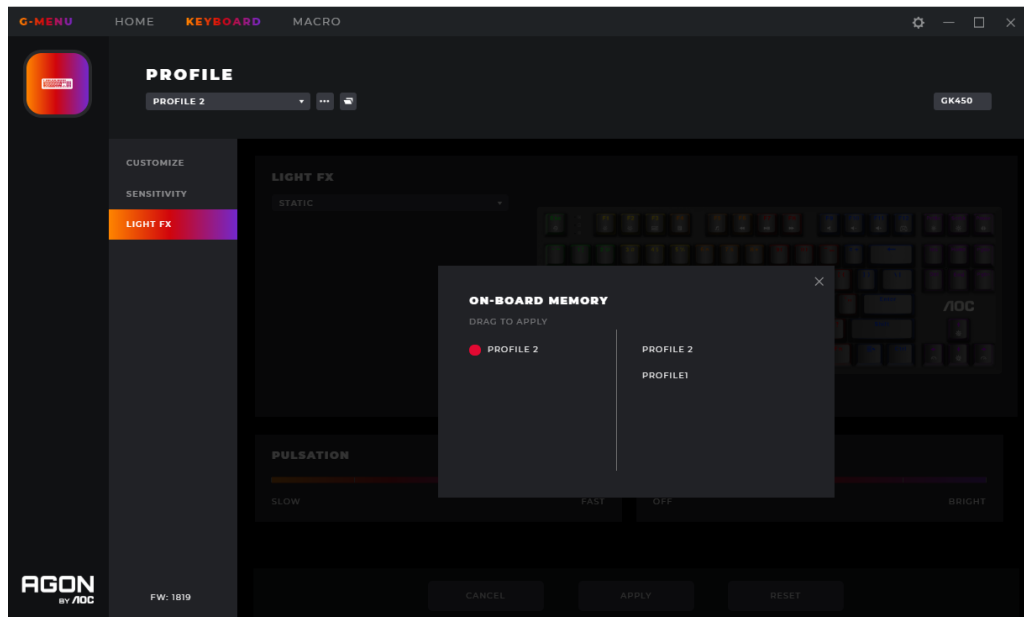
- You may associate an executable file to run each time the profile is selected.
- Click the **File** button to open a **File Explorer** dialog box that shows **.exe** files.
- Or you can directly enter the execution path in the input box.
- After selecting the application, click the **Open** button, the path will be automatically filled into the input box.



- Click the **Save** button to add the application to the profile.
- Click the **Cancel** button to close the pop-up box.

7. On board memory

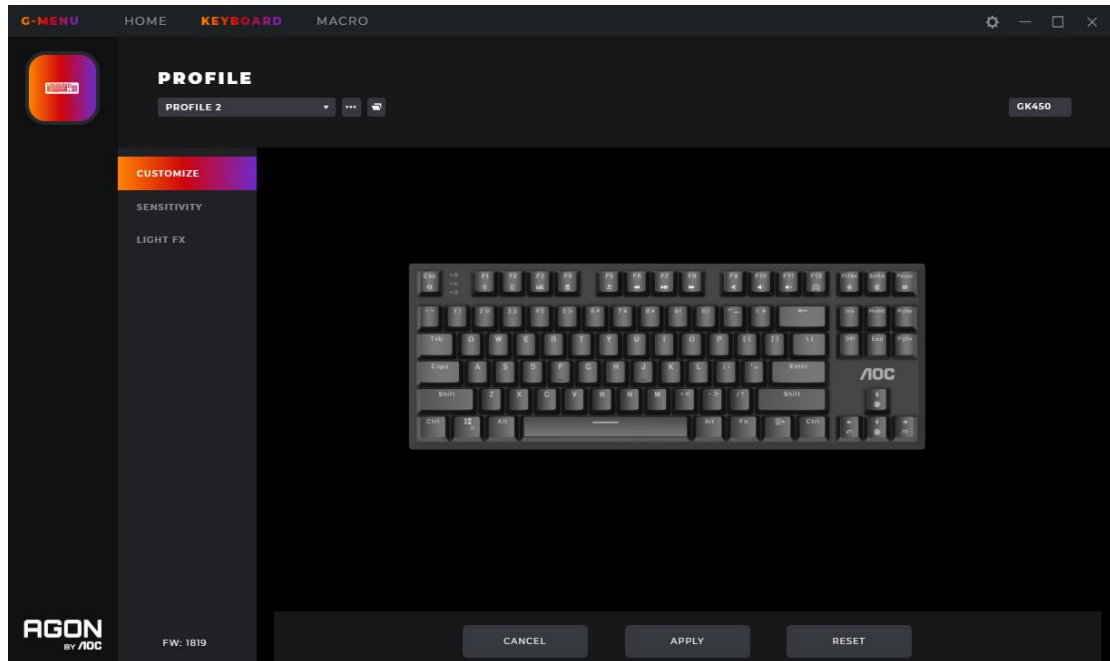
Click the icon  to open the On-Board Memory pop-up interface



1. The left side of the interface is the current device onboard, the right side is list of all local profile files.
2. **On-board adaptation:** Drag the profile file to the back of the corresponding on-board color. After completion, the profile will be immediately applied to the on-board to take effect.
3. **Delete a profile**
 - Click the delete icon behind the profile to delete it.
 - The profile currently in use does not support deletion.
 - Click the close icon to close the pop-up window.

8.1 Keyboard Settings

8.1.1 Customize



1. Buttons on keyboard

- Defined: Hover the mouse over a key to see what function has been defined to that key. Default, the marked value.
- Undefined: Hover the mouse over a key to highlight it. Select the key to change the function of that key. Functions include: Macro Manager, Multimedia settings, DPI Switch settings, RB (Right Button), LB (Left Button), Browser Backward, Browser Forward, Fire Button, Windows Key, (see section 8.1.1.1) and Button Off.

2. Cancel

- Click the **Cancel** button to cancel this setting and return to the last saved state.

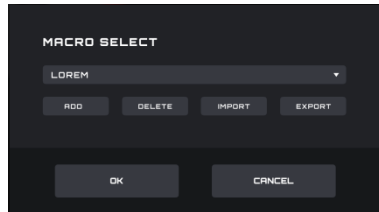
3. Apply

- Click the **Apply** button to save this setting.

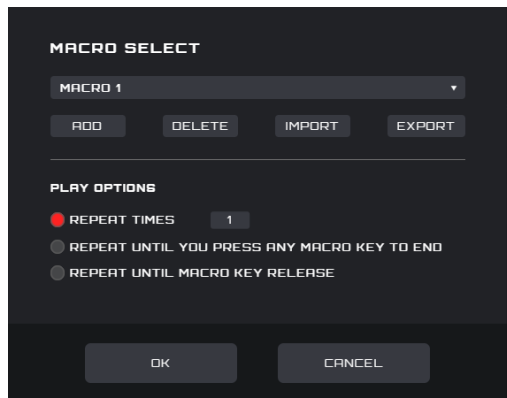
4. Reset

- Click the **Reset** button to restore the default factory settings.

8.1.1.1 Macro select



1. Click the drop-down box to select an existing macro.
2. Add
 - Click the **Add** button to display the macro editing interface.
3. Delete
 - Click the **Delete** button to remove the currently selected macro.
4. Import
 - Click the **Import** button to open a **File Explorer** dialog box, select the Macro file, and click the **Open** button to import the file.
5. Export
 - Click the **Export** button to open the export file dialog to save locally.
6. Select Play Option
 - After selecting a Macro play options are displayed at the bottom of the interface.

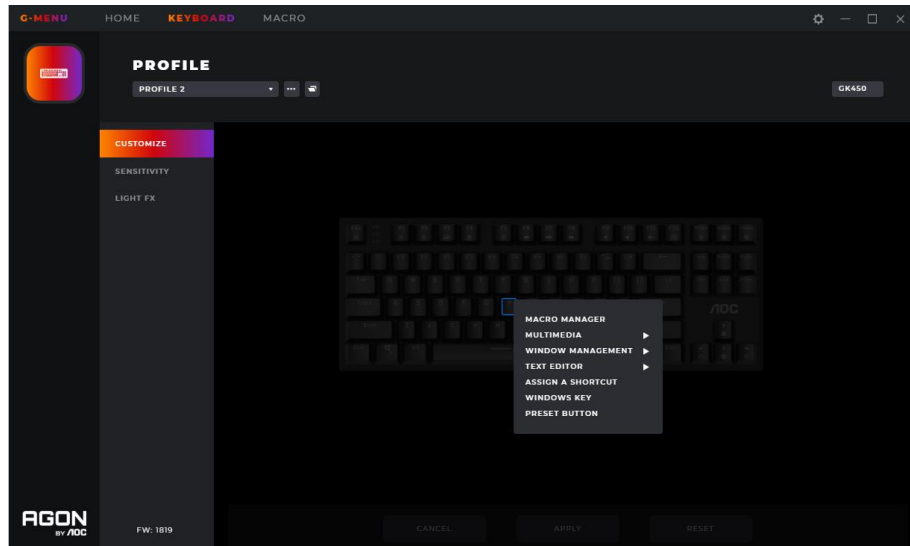


- **Repeat Times:** Enter the number of times to repeat the macro action, default 1.
 - **Repeat Until You Press Any Macro Key to End:** Repeat the macro action until you press any macro key to end replay of the macro.
 - **Repeat Until Macro Key Release:** Repeat the macro action only while the macro key is being pressed.
7. OK
 - Click the **OK** button to enable the macro definition and play options.

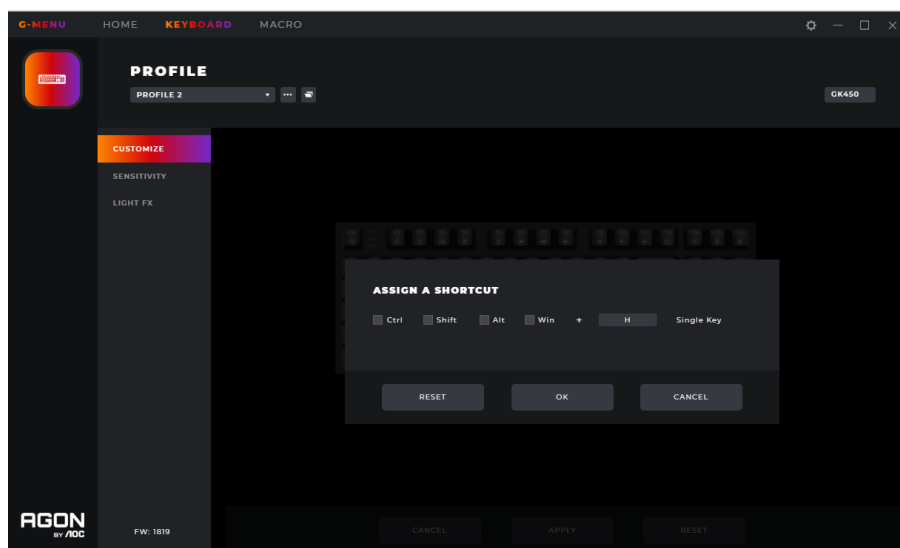
8. Cancel

- Click the **Cancel** button to cancel the button macro definition and close the dialog box.

8.1.1.2 Assign a shortcut



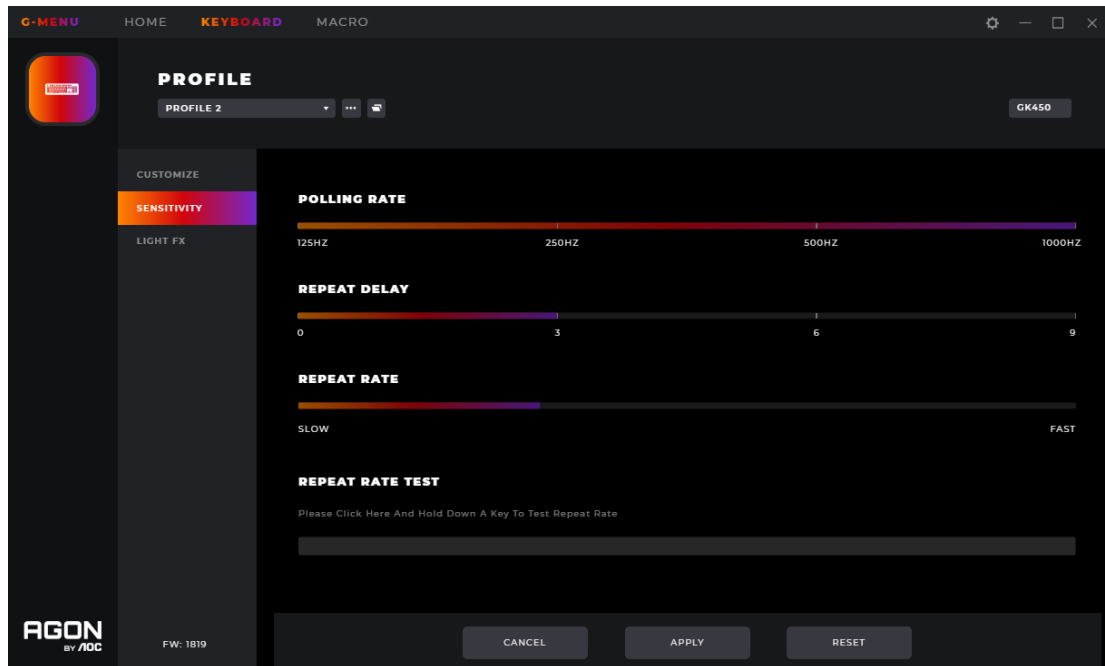
Select the **Assign A Shortcut** menu item to cause the **Assign A Shortcut** pop-up dialog box to appear:



- **Select one or more modifier key check boxes:** Ctrl/Shift/Alt/Win. Default, all deselected.
- **Single-key input box:** Press the key on the keyboard to set the Smart Key. The last key pressed will be entered. Default, empty.
- **Reset**
 - Click the **Reset** button to restore the default factory settings.
 - Click the **OK** button to save the settings, when the input box and check box are empty, the button is grayed out and cannot be clicked.

- **Cancel**
 - Click the **Cancel** button to cancel the key assignment and close the popup.

8.1.2 Sensitivity



1. Polling Rate

- Select how often key pressed are polled for: 125Hz/250Hz/500Hz/1000Hz. Default, 250Hz

2. Repeat Delay

- Select how long, in seconds, before a key begins repeating when held: 0/3/6/9. Default 3 secs.

3. Repeat Rate

- Select the repeat rate of a held key: Slow (0)- Fast (31). Default 5.

4. Repeat Rate Test

- Click in the text box to test settings.

5. Reset

- Click the **Reset** button to restore the default factory settings.

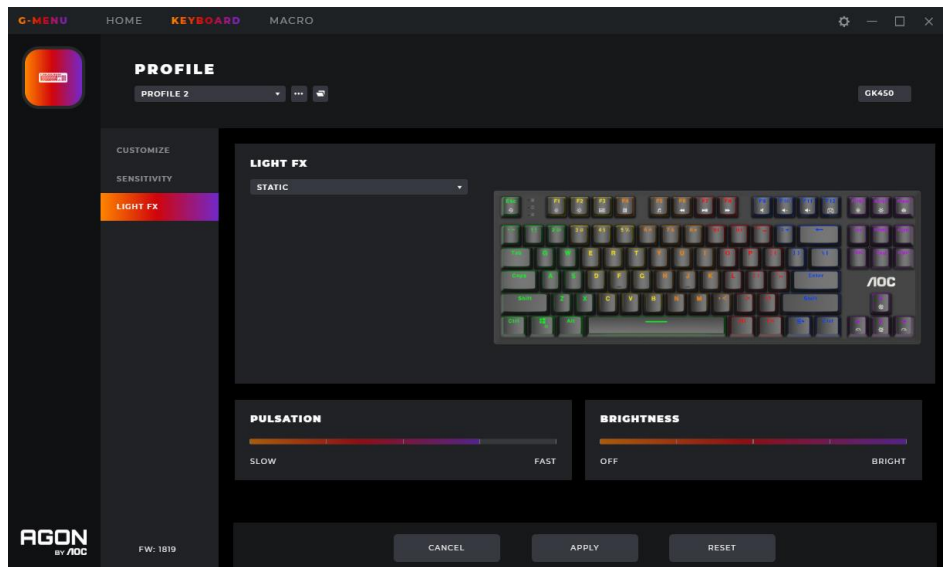
6. OK

- Click the **OK** button to save the settings.

7. Cancel

- Click the **Cancel** button to cancel this setting and return to the last saved state.

8.1.3 Light FX



1. Light FX

- Click the **Light FX** drop-down menu to select a light effect.
- Among them, **Custom Setup** lighting effects, you can customize the color lighting effects for the designated buttons separately.

2. Pulsation

- Select how fast the color will pulse.

3. Brightness

- Select the brightness the color will glow or turn off.

4. Rotation

- Control the direction of light effect movement: Clockwise/Counter clockwise.

5. Cancel

- Click the **Cancel** button to cancel this setting and return to the last saved state.

6. Apply

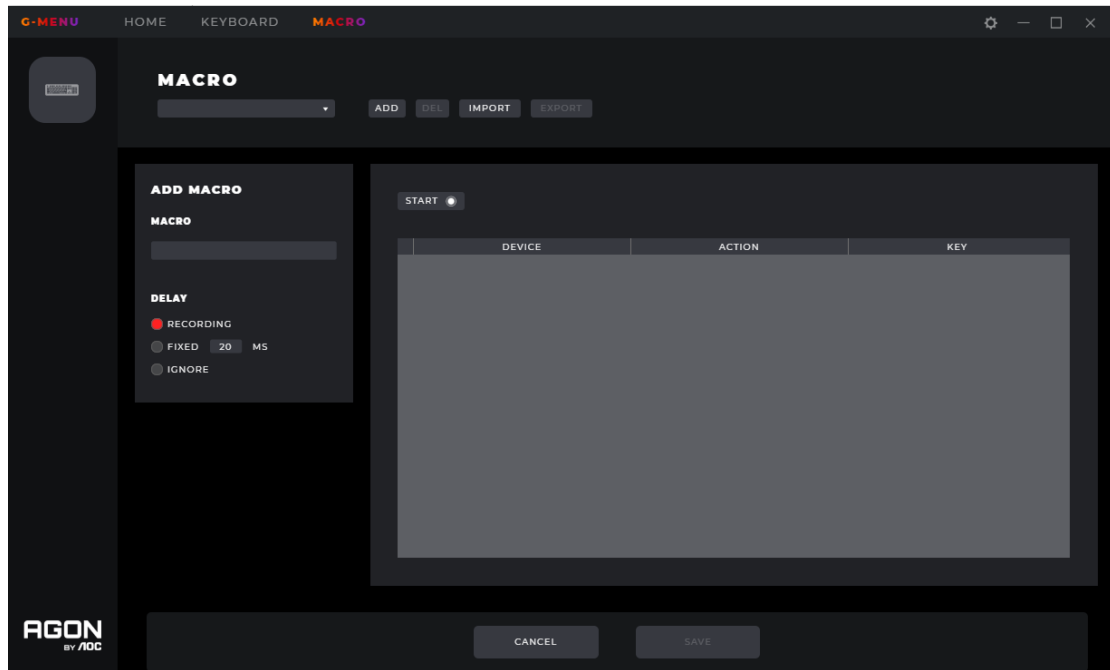
- Click the **Apply** button to save this setting.

7. Reset

- Click the **Reset** button to restore the default factory settings.

8.2 Macro

Create and edit macros from the Macro interface.



1. Edit

- Select a macro from the drop-down menu.

2. Add

- Click the **Add** button to display the macro editing interface.

1) Macro Name

- Enter a name into the text box. 50 characters max.

2) Delay

- Select the delay time for running the macro.
- **Recording:** Follow the delays between actions exactly as recorded. Default.
- **Fixed:** The trigger time between each action is fixed. Default, 20ms.
- **Ignore:** Do each action in order, without delay.

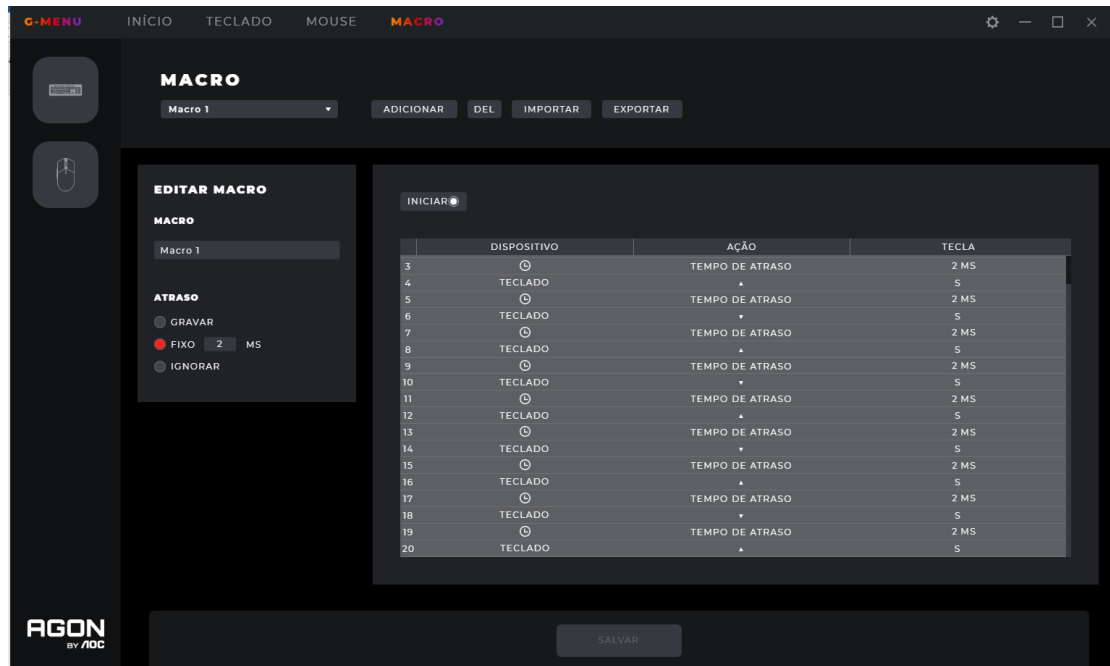
3) Start

- Click the **Start** button to begin recording a macro.
- If a macro exists, click the **Clear** button to remove the actions and begin a new recording.
- While recording, the **Start** button becomes a **Stop** button. During a recording, the macro setting options are disabled and only the keypress record box will be updated.
- Click the **Stop** button to finish recording.

4) Keypress record

- Provides a real-time recording of all device keypress operations.
- **Device:** Show which device initiated the event, or the delay between events.

- **Action:** Registers Key down, key up and delay time events.
- **Key:** Which key was pressed or the duration of the delay time between events.



5) Save

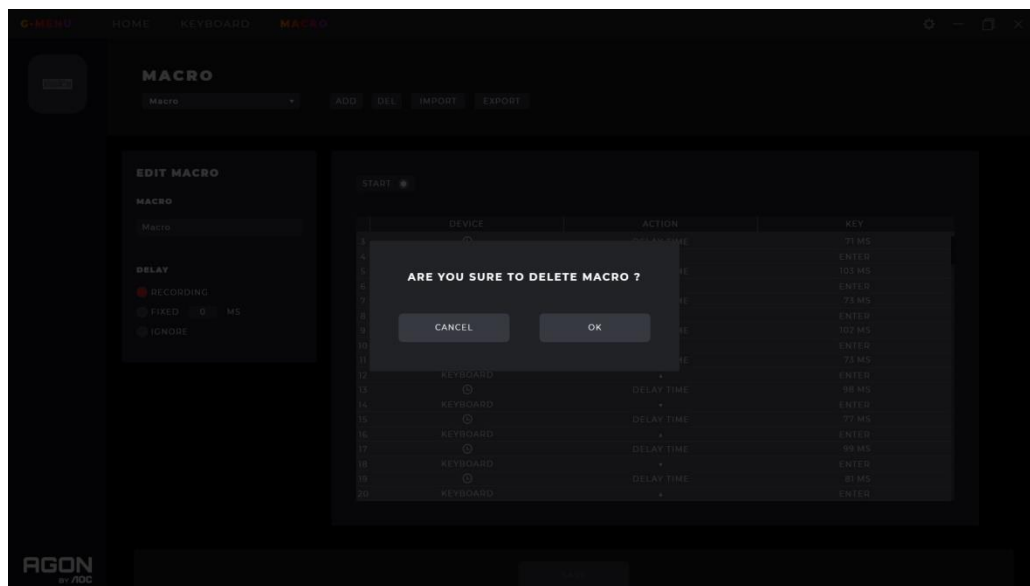
- Click the **Save** button to save the macro, making the macro editable.

6) Cancel

- Click the **Cancel** button to cancel the macro creation process.

3. Delete

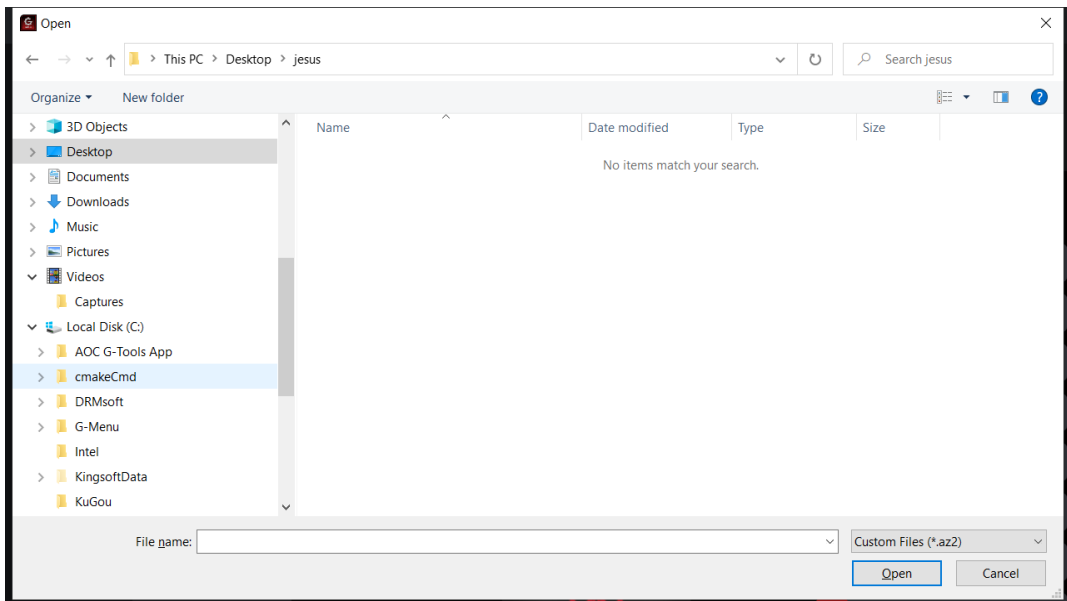
- Click the **Delete** button to delete the macro. Then confirm or cancel the deletion.



4. Import

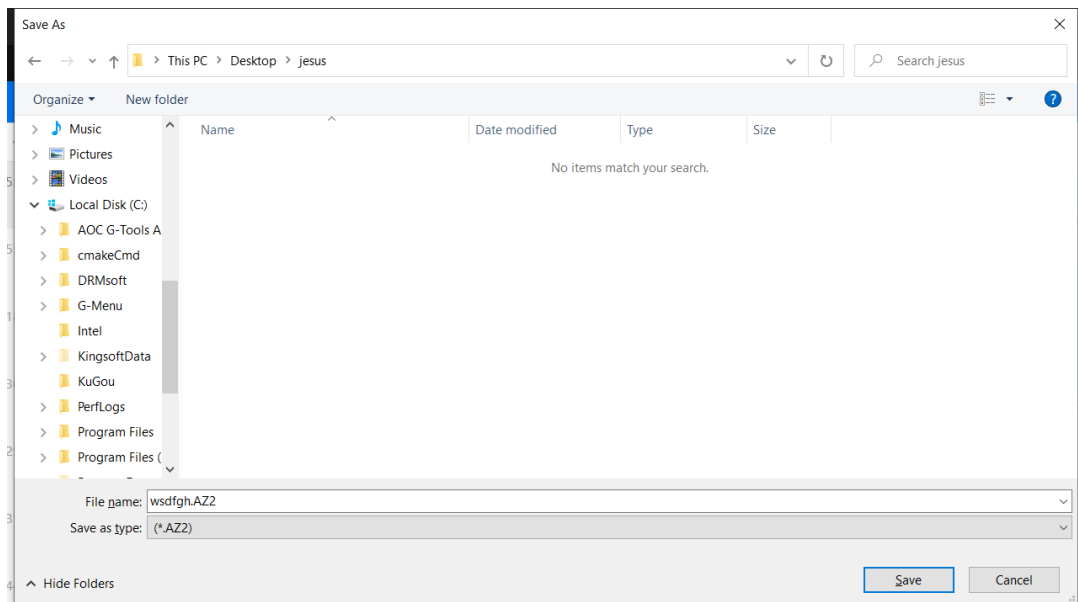
- Click the **Import** button to open a **File Explorer** dialog box.

- Find the macro file to import.
- Click the **Open** button to import the macro file.
- Click the **Cancel** button to cancel the import, and close the dialog box.



5.Export

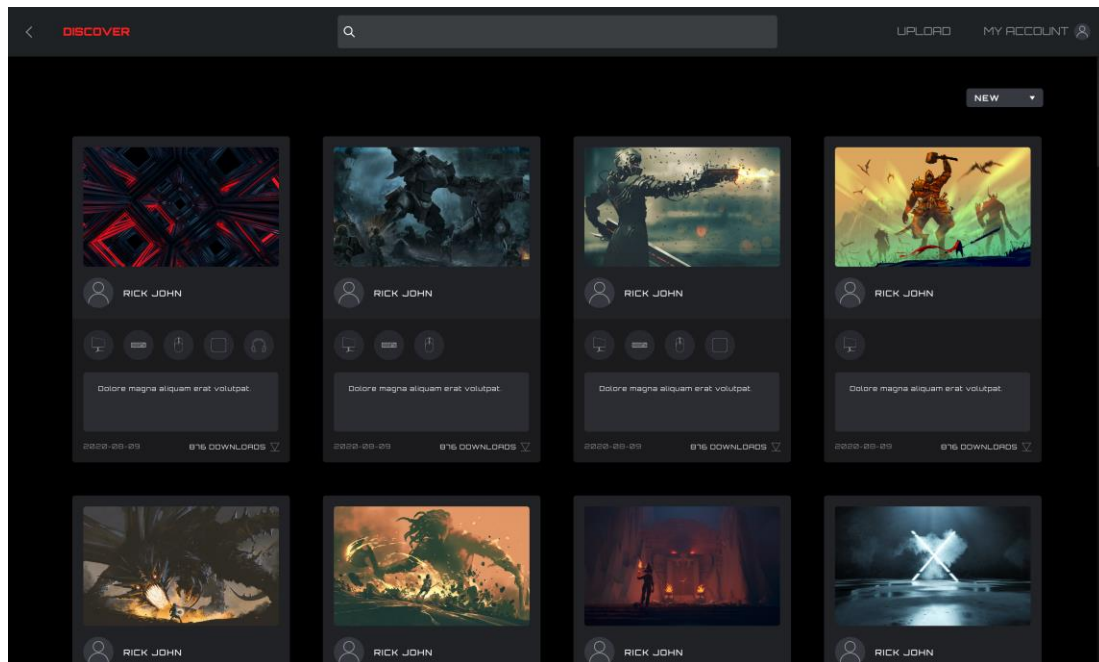
- Click the **Export** button to open a **Save As** dialog box, the file name defaults to the current macro name.
- Navigate to your desired export folder.



- Click the **Save** button to export the macro file.
- Click the **Cancel** button to cancel the export, and close the dialog box.

8.3 Discover

Discover and share profiles with others on the G-Menu network.



1. Back

- Click the < (**Back**) button to return to the main menu.

2. Discover

- Click the **Discover** button in the upper left corner to refresh the screen.

3. Search Bar

- Click in the **Search** bar to find profiles containing the search term in the publisher, title or description.

4. Upload

- Click on the **Upload** button to open the upload interface.
- If not logged in, the login interface opens.

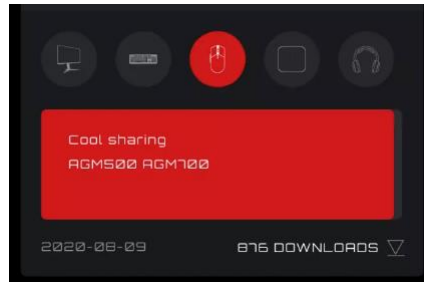
5. My Account

- Displays the current account name and avatar. If the name is too long, it will be shown truncated with an ellipsis "...".
- If not logged in, enter the login credentials and click the Login button. See below for creating an account.

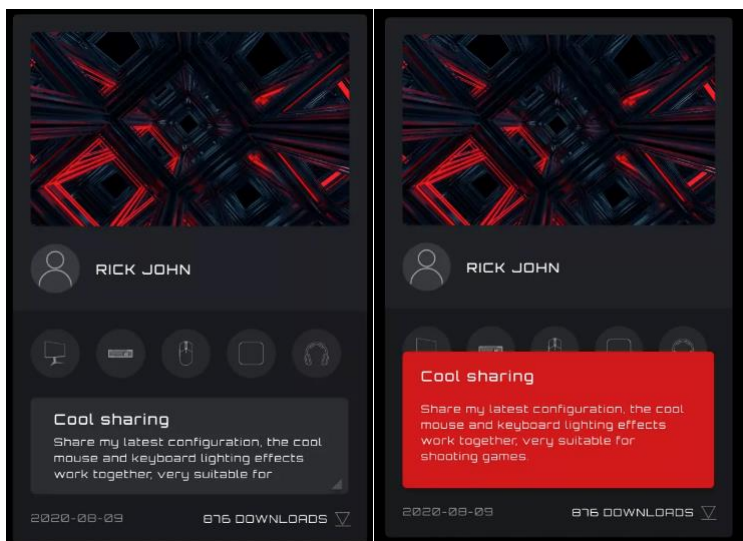
6 Profiles

- Select a sorting method from the drop-down menu:
 - **Hot** (default): Displays the most popular profiles.

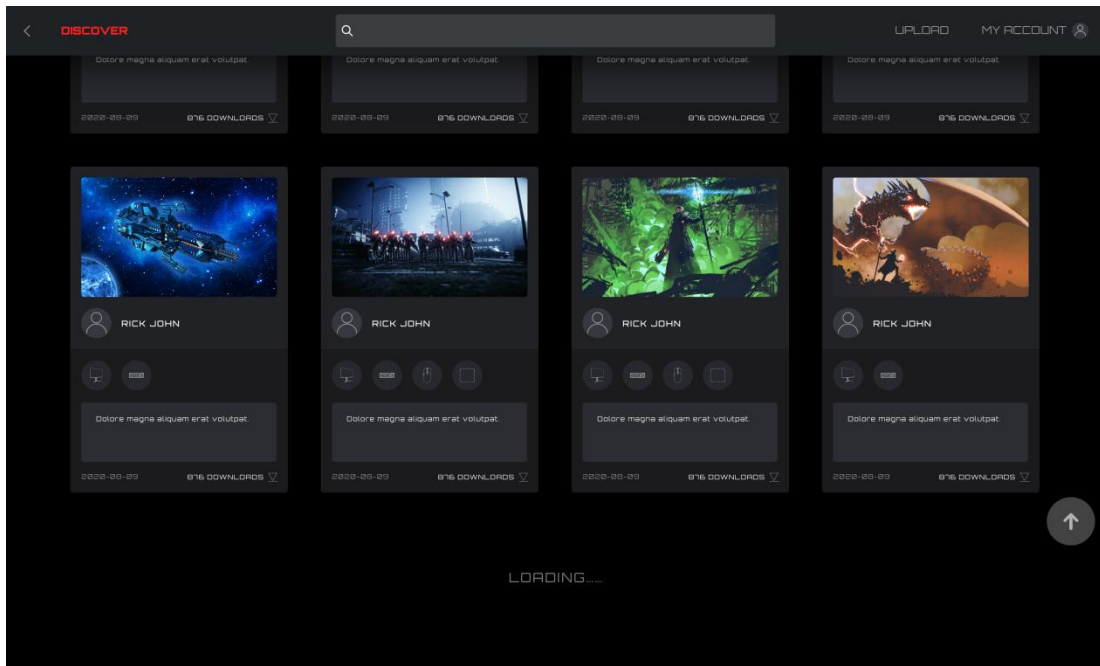
- **New:** Displays the newest profiles.
- Profile Details
 - **Cover image:** Each profile comes with a cover image.
 - **Publisher name:** The account that created and uploaded the profile.
 - **Supported devices:** Select the icon to reveal the supported model details.



- Profile Title and Introduction
 - ◆ The profile's title and description, click on the ellipsis "...".
Maximum 50 characters.

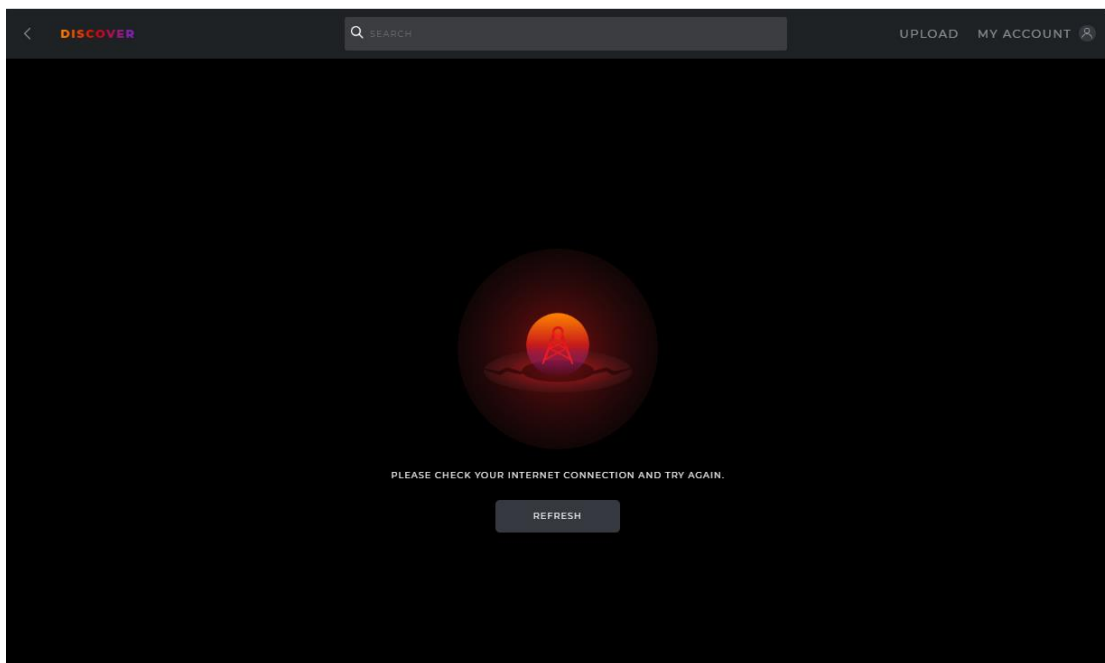


- Upload Date: When the profile was uploaded, in year-month-day (yyyy-mm-dd) format.
- Downloads: Shows how often the profile was downloaded.
- Download Icon: Click on the **Download** button to download the profile.
- Once the profile has been downloaded, the profile will be available for configuration. Click the **Configure** button to enter the configuration dialog box.
- Load a Profile
 - Double-click on a profile to load a profile for use.



7. If the network cannot be reached the following error screen will appear.

- Click the **Retry** button to try connecting again.



8.3.1 Download profile

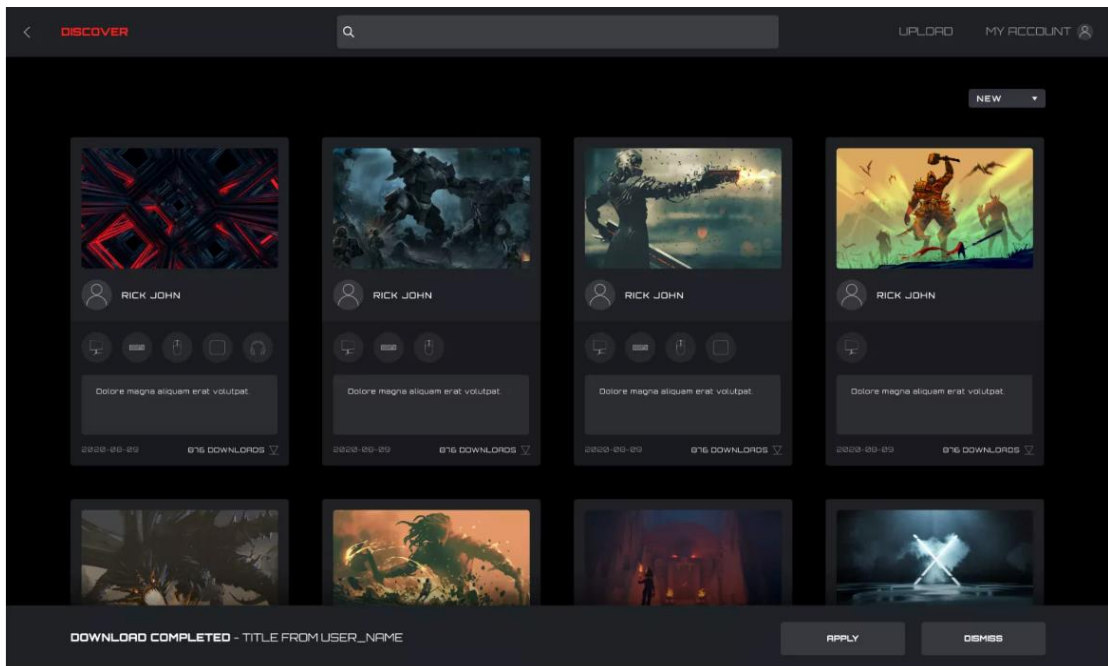
1. Click the **Download** button to start downloading the selected profile.

- This display will change to 'Downloading...'



2. After the download is complete.

- Click the **Apply** button to begin configuration.
- Click the **Dismiss** button to configure later.



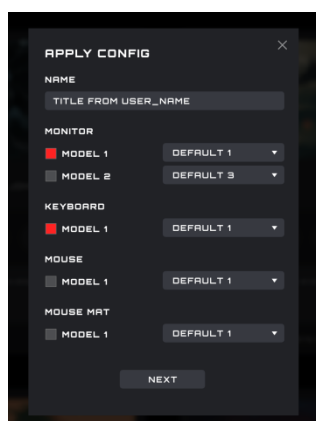
3. Abnormal situation

- If the download is interrupted, the software will attempt to continue or you may re-download later.

8.3.2 Configure Profile

1. When the profile download is complete, click the **Apply** button.

- Enter the **Profile Configuration**.

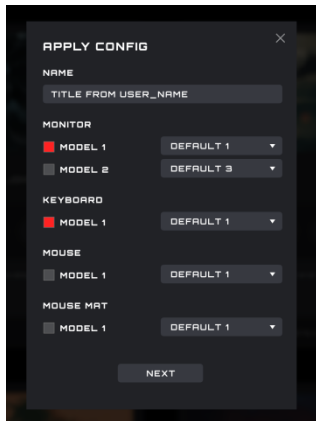


- If there is currently no compatible device available an error will appear.



- Click the **OK** button to close.

2. Configure



1) Name

- Enter a name for the configuration.

2) Devices

- Select your specific device models.

3) Profile

- The current profile is displayed by default, and the selection cannot be switched.

4) Close

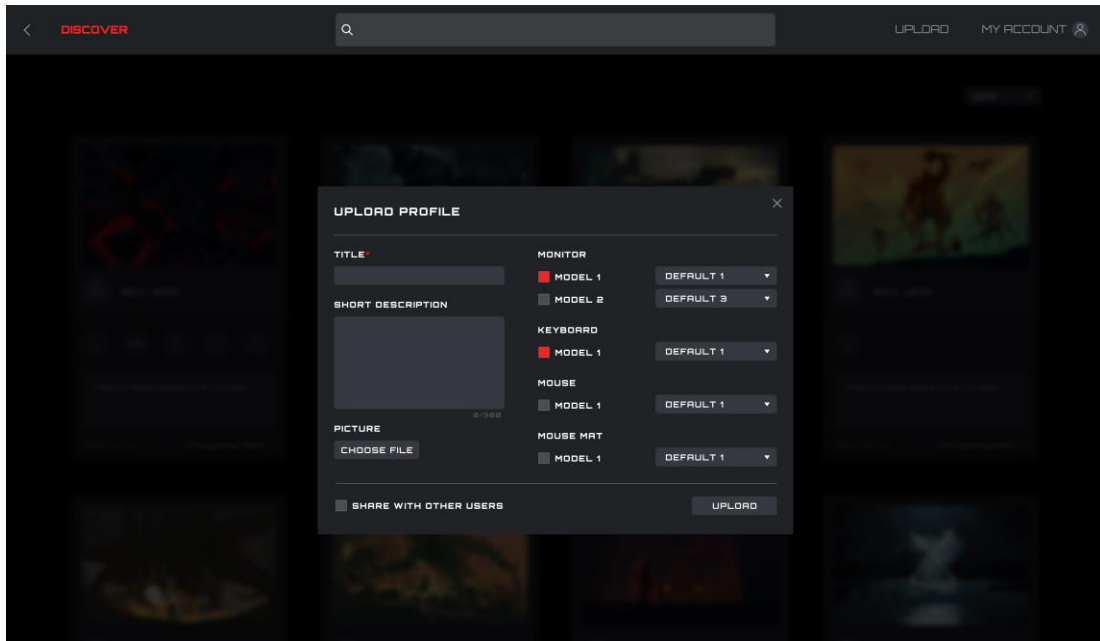
- Click the **Close** button to cancel the configuration.

5) Next

- Click the **Next** button to apply the current profile to your device(s).

8.3.3 Upload

Configure a profile and upload to share with others.



1. Title

- Enter a title. This is a required field.
- The number of input characters is limited to 50 characters.

2. Input short description

- Enter a description of the profile. The character limit is 300.

3. Picture

- Click the **Choose File** button to open a File Explorer dialog box to add a picture to the profile.

4. Monitor, Keyboard, Mouse, and Mouse Pad Models

- With the checkboxes, select the connected devices and device models for this profile.

5. Select a profile

- Select an existing profile to use with each device.

6. Share with Other Users

- Enabled: Shares this profile with the public.
- Disabled: Only visible in your **My Upload** screen.

7. Upload

- Click the **Upload** button to upload the profile.

8. Close

- Click the **Close** button to cancel upload.

9. After the upload is successful, the **“Upload Successfully!”** pop-up dialog box will appear.

8.3.4 Search

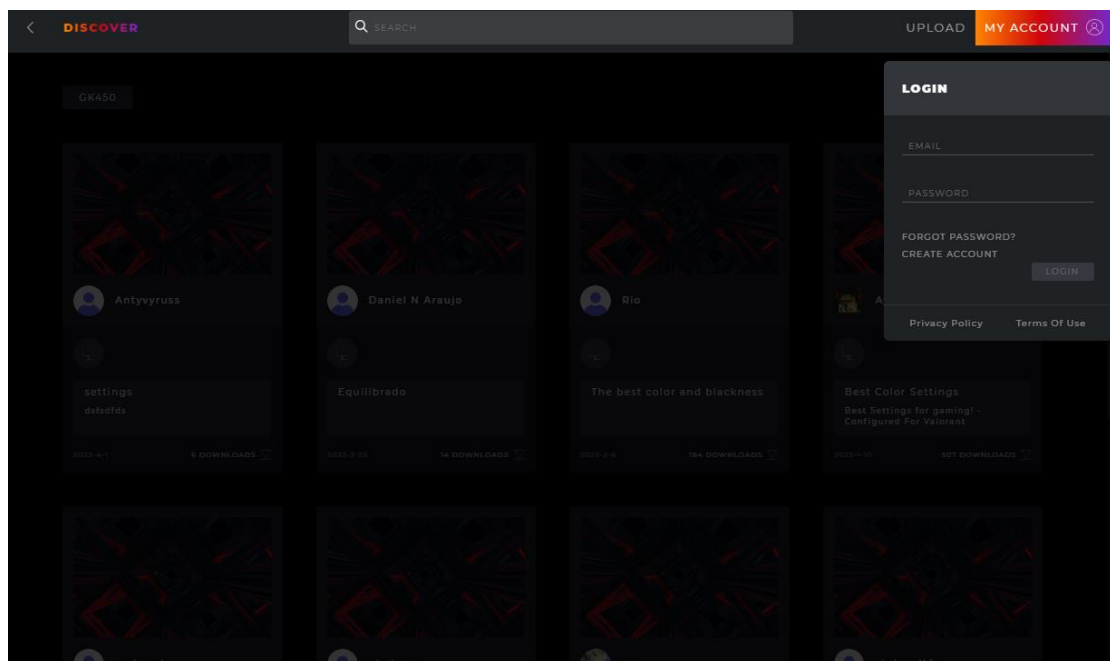
Prerequisite: Click the search bar

- Supports search of the publisher, profile name, and description text.

8.3.5 Login

Log into your account.

- When not logged in, you may also click on the **Upload** button to enter the login interface.



1. Email

- Enter your Email address.

2. Password

- Enter your password.

3. Login

- Click the **Login** button to log into your account.

4. Forgot Password

- Click the **Forgot Password** button to reset your password. For more information, see below.

5. Create Account.

- Click the **Create Account** button to create an account. For more information, see below.

6. Privacy Policy

- Click the **Privacy Policy** button to read the privacy policy for this software.

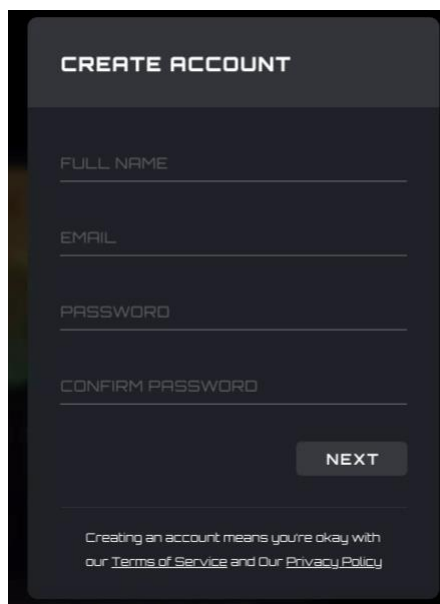
7. Terms of Service

- Click the **Terms of Service** button to read the Terms of Service for this software.

8. Back

- Click in the main window to dismiss the menu.

8.3.5.1 Create Account



CREATE ACCOUNT

FULL NAME

EMAIL

PASSWORD

CONFIRM PASSWORD

NEXT

Creating an account means you're okay with our [Terms of Service](#) and [Our Privacy Policy](#)

1. Full Name

- Enter your name.

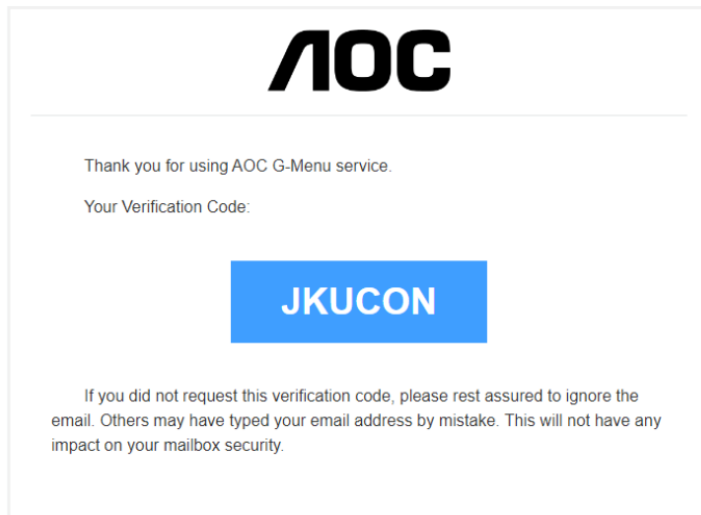
2. Email

- Enter your email address.

3. Password and Confirm Password

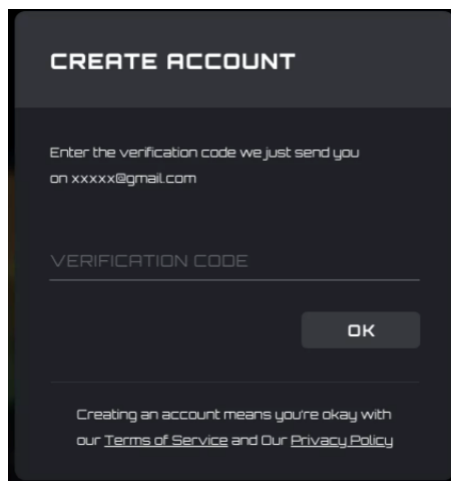
- Enter and confirm a password. From 6-18 characters (letters, digits or special characters).

4. Click the **Next** button to receive a verification code email. The code will expire in 15 minutes.

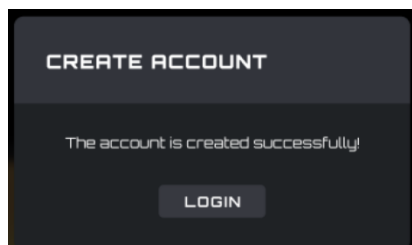


5. Verification code confirmation

- Enter the verification code you received.

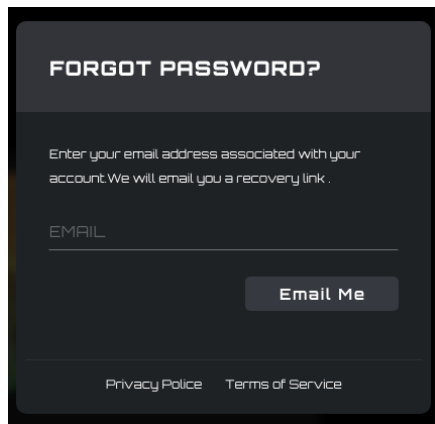


- Click the **OK** button:
 - If the verification code is correct, it will prompt that the account is created successfully, click the **Login** button to re-enter the account login interface.



- If the verification code is wrong, the error "The verification code is wrong" will appear.
- If the verification code is expired, the error "Verification code has expired" will appear.

8.3.5.2 Forgot Password



FORGOT PASSWORD?

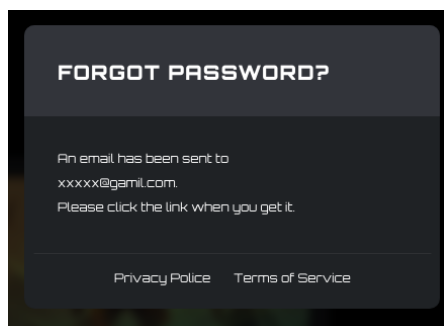
Enter your email address associated with your account. We will email you a recovery link .

EMAIL

Email Me

[Privacy Policy](#) [Terms of Service](#)

1. To reset your password: Enter the email address associated with your account. A recovery link will be sent.
2. Click the **Email Me** button to have the password reset email sent.



FORGOT PASSWORD?

An email has been sent to
xxxxx@gamil.com.
Please click the link when you get it.

[Privacy Policy](#) [Terms of Service](#)

3. Email password reset
 - 1) Password reset link received in the email
 - Click on the **Reset Password** button:



You are receiving this because you (or someone else) requested the reset of the account.

Please click on the following link in 2 hours:

[Reset Password](#)

Or copy and paste the following link to open it in your browser? <http://acc-gmenu.zeasn.tv/resetPassword?resetToken=10e7e0f1aa8da244789d8e3cac7e296233>

If you received this in error, you can safely ignore it.

- Alternatively, copy and paste the link into your browser to open it there.
- Link valid time: 2 hours.

2) Password reset interface



Reset Password

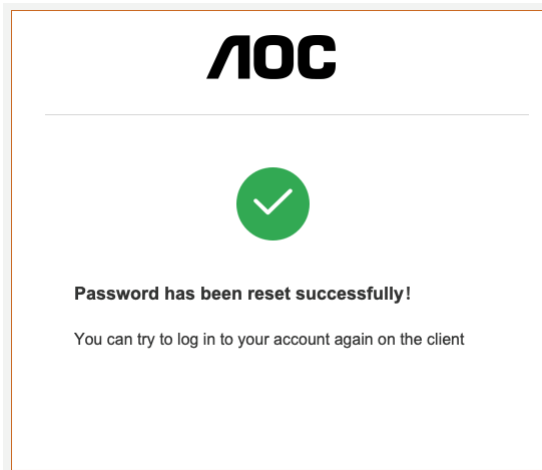
Please enter a password with no less than 6 characters.

New Password

Re-enter Your New Password

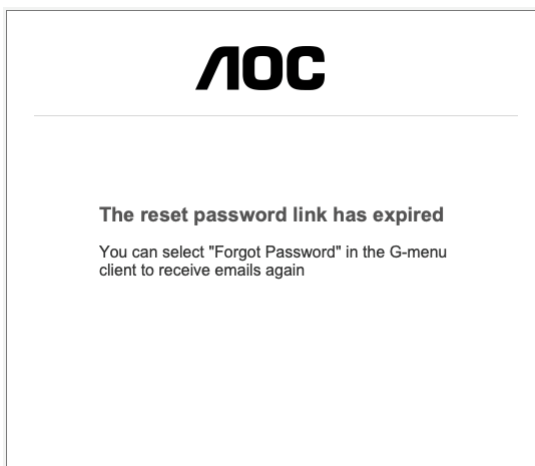
[Reset Password](#)

- Enter and confirm a password containing between 6 to 18 characters (numbers or letters).
- Click the **Reset Password** button:
 - If the passwords match and pass verification, the password is changes, and the success dialog box appears.



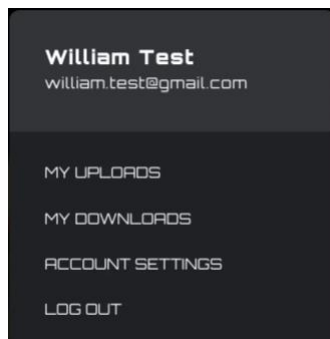
3) Error message: The reset password link has expired

- The link sent in the email was not clicked on within the 2-hour reset period.



8.3.6 My Account

Prerequisite: You must be logged in to access your account information.

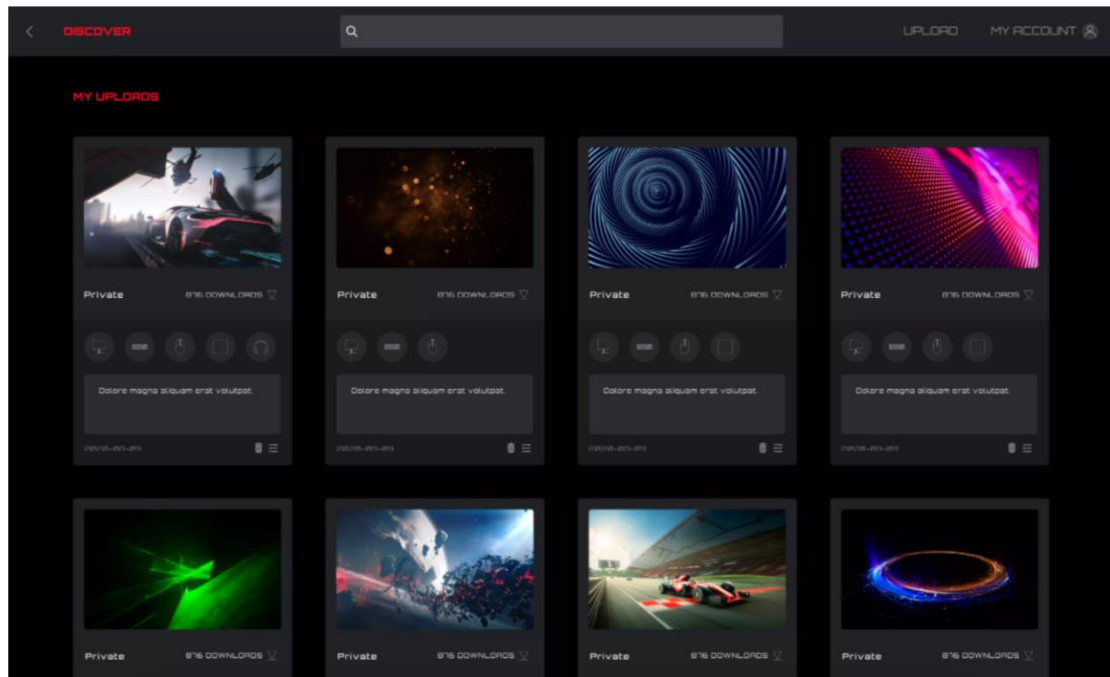


Click on the **My Account** button to display the account information.

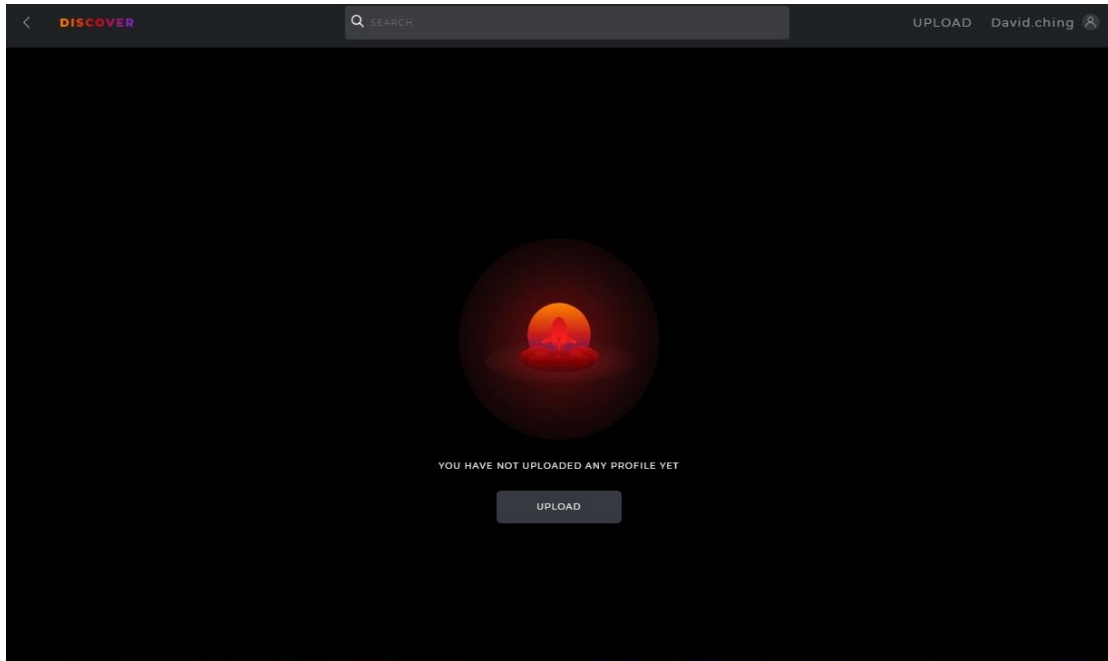
1) Account options:

- Click the **My Uploads** button to enter the **My Uploads** interface.
- Click the **My Downloads** button to enter the **My Downloads** interface.
- Click the **Account Setting** button to enter the **Account Settings** interface.
- Click the **Log out** button to log the account out of the device.

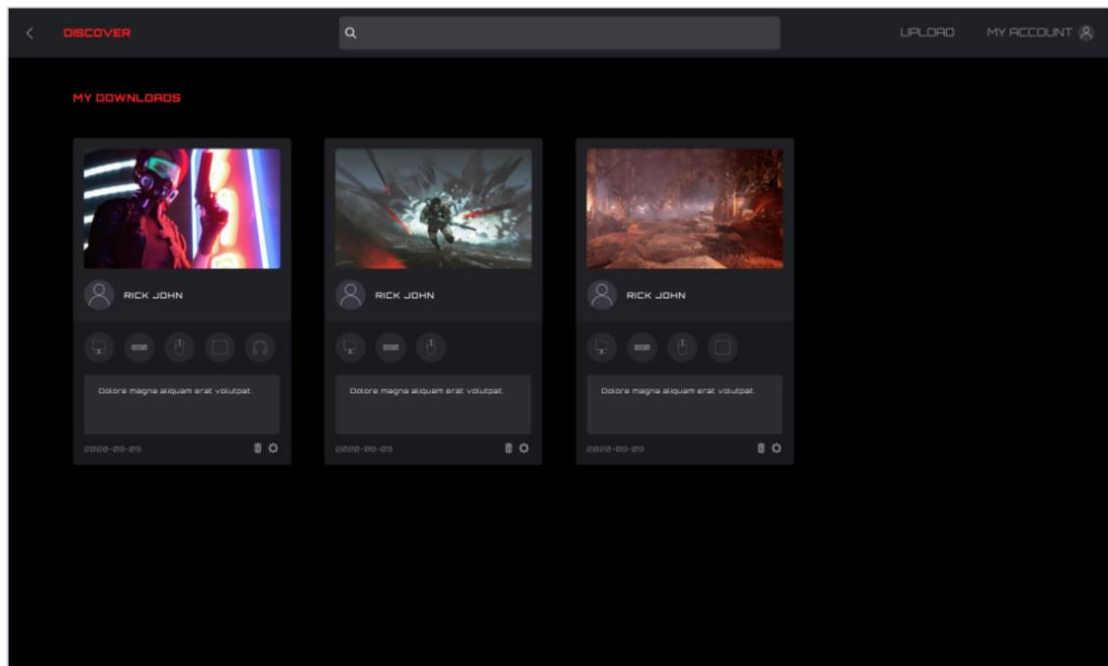
8.3.6.1 My uploads



1. Click the **Discover** button to return to the discover homepage.
2. Click the **Back** button to return to the main menu.
3. Profile content:
 - Cover
 - Publisher's nickname and avatar
 - Profile title and introduction
 - Adaptation equipment and model
 - Public/Private
 - Release time
 - Download (configure)/delete button
4. Click the **Delete** button to delete the Profile file from the discover screen.
5. Click the **Upload** button to upload a profile.

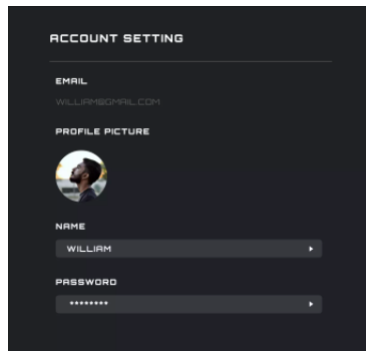


8.3.6.2 My downloads



1. Display the profile information and download time of profiles that have been downloaded and saved locally.
2. Click the **Configuration** button to enter the configuration interface.
3. Click the **Delete** button to delete the profile file locally and return to the Profile list.

8.3.6.3 Account settings

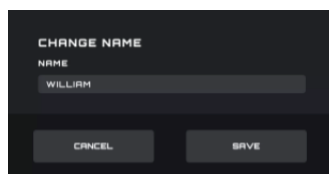


1. The Email address cannot be changed, to change the email address create a new account.

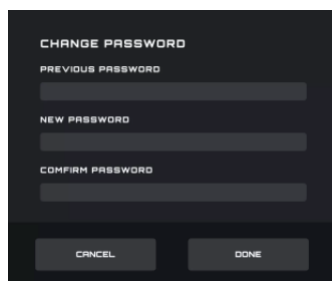
2. Profile picture

- Click to open a **File Explorer** dialog box to change the picture.

3. Edit Name



4. Edit password



- The old password input box always obscures the password field.
- New password and new password confirmation input field always obscures the password field.
- Click the **Cancel** button to cancel the modification.
- Click the **Done** button. After verification, the new password takes effect, and the login interface is opened to log into.

5. Back

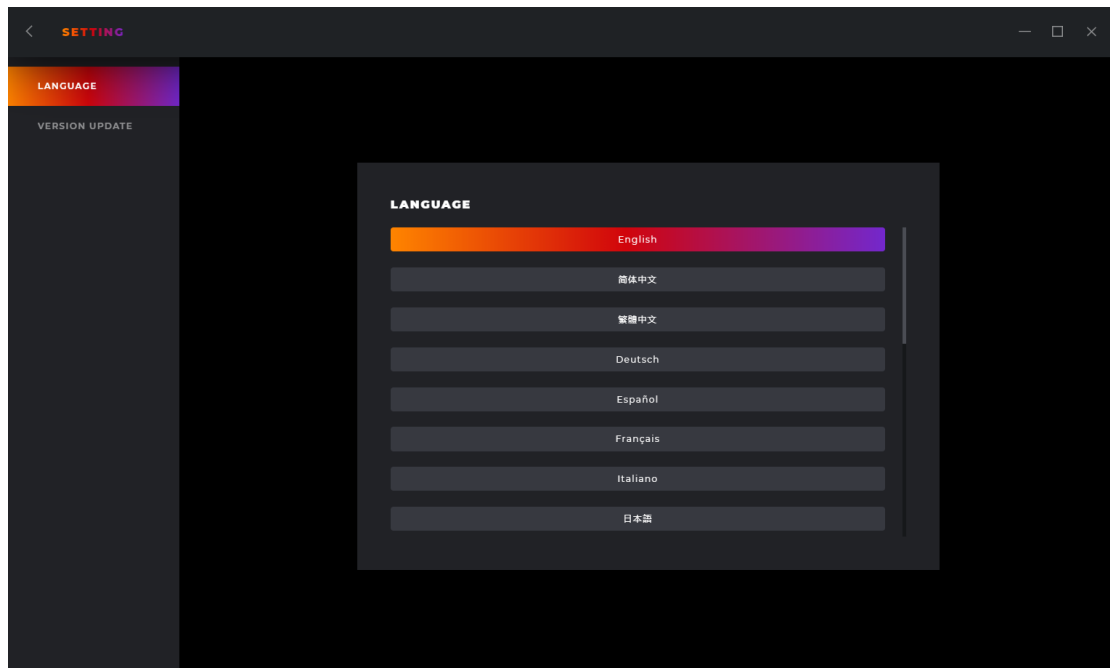
- Click the **Back** button to return to the previous interface.

8.4 Setting

Change the setting for G-Menu.

Switch Language

- Displays all currently supported languages, among which the currently used language is highlighted.
- Click the appropriate language button to switch languages immediately.



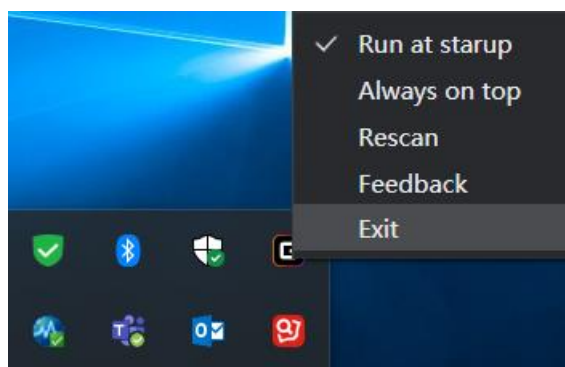
Back

- Click the < **(Back)** button to return to the previous interface.

8.5 Tray

Exit

- Click the **Exit** button to exit the application.



9 Safety Guide and Maintenance

Safety

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note:

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Safety Guidelines

1. The tracking beam is always on. Do not look directly at the device's tracking beam or point at anyone's eyes. The tracking beam is not visible to the unaided eye.
2. Do not operate the device outside of normal conditions. Keep the device away from liquids or moisture.
3. Normal operating conditions: between 0°C (32°F) and 40°C (104°F). If the temperature is too high unplug the device until conditions are normal.
4. Warranty void, if disassembled. Do not attempt to repair the device.
5. Troubleshoot by unplugging the device and plugging it back in. If this does not resolve the issue, unplug the device and visit www.aoc.com for support.

Maintenance

Monthly maintenance: Unplug the device and wipe with a soft cloth or cotton swab. Moisten the cloth with warm water for stubborn dirt. Do not use soap or harsh detergents.

