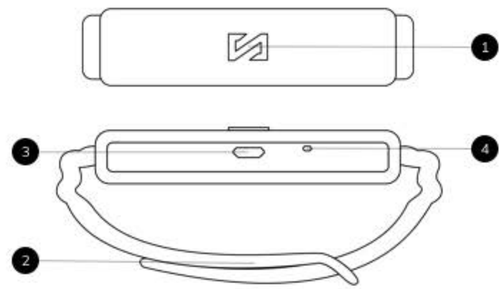
CONTROLLER
VGW0010

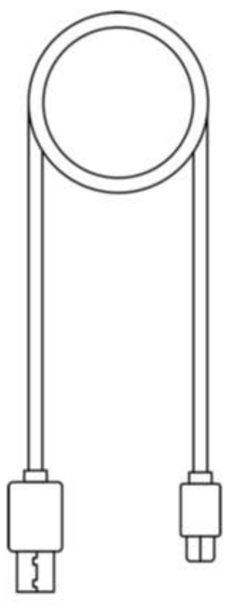
Quick Start Guide

Quick Start Guide

1. Package Contents



1. Power Button
2. Adjustable Strap
3. Micro USB Charging Port
4. LED Indicator



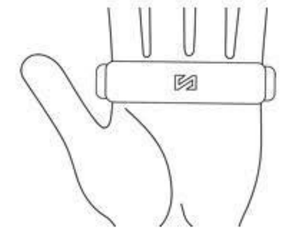
Micro USB - USB Charging Cable

Bluetooth Dongle

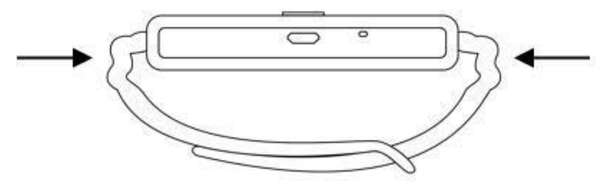
2. Getting Started

How to wear

The EUT is worn on the palm of your hand. Place your KAI on your palm such that the USB port & LED are facing your fingers. Move the adjustable straps to ensure that the KAI fits perfectly in your hand.

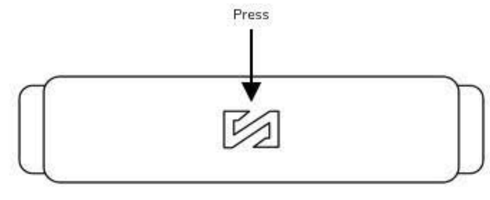


This step need not be repeated each time you wear the EUT. Once fit to size, you can simply press on the sides of the strap to remove the EUT without having to open the strap each time.



Turning Kai On/Off

The EUT's power button is placed below it's logo. Press and release the button to turn the EUT on or off.



Status Lights (LED)

On Use	
Pairing Mode	Blue Blinking
Connected	Green Solid
Battery Low	Red Solid
DFU Mode	Blue Solid

Charging	
Charging	Red Blinking
> 90% Charge	Green Solid
Fully Charged	Green Solid followed by LED Off

Pairing with PC

Follow the steps below to connect the EUT to your laptop/PC

- Insert the dongle into your laptop/PC's USB port.
- Turn the EUTOn. (Blue Blinking LED)
- The EUT will automatically search and connect to your device.
- A Green LED indicates a successful connection.

Downloading The Control Center

The EUT's control center is a software that let's you customize your and create custom profiles.

Visit **vcr.to/kcc** to download the EUTControl Center

3. Kai DFU Mode

All updates to the EUT will be delivered through OTA (Over The Air) updates. The EUT needs to be put in DFU mode (Device Firmware Update) to allow the installation of updates.

To put your EUT in DFU mode, turn your EUT off. Then press and hold down the power button for 5-7 seconds. A Blue LED light indicates that your EUT is in DFU mode.

4. Help & More

The EUT troubleshooting guide can be found on **vcr.to/trbst**

For any other queries, mail us at **support@vicara.co**

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VGW0010 Controller Guide

V1.3

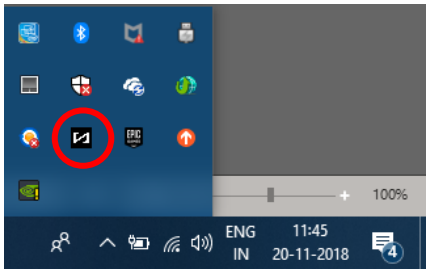
Note: We recommend charging the VGW0010 for at least an hour before beginning with this manual.

Installation

1. Download the software package from the given link: https://1drv.ms/f/s!Ap6b1W2CJT_g1yrZ6Quzfcrz9J1p
2. If the download was in a .zip format, first extract it.
3. In the extracted folder, find the “Installer Folder” and double-click on it.
4. Here, right-click on “install-script.cmd” and “Run as Administrator”.
5. This will install all the required files and create a shortcut to the “Start VGW0010_sdk.exe” on your desktop. **Note:** You may be asked whether to run the kai-sdk on start-up. It is recommended to select yes.
6. To check if the required drivers have been installed, go to “Device Manager” (Windows Key + X, then press M).
7. Plug in the USB-dongle. Under “Ports” there should be an entry saying, “Silicon Labs CP210x USB to UART Bridge”. If there is no exclamation mark present here, you are good to go.
8. If there is an exclamation mark, in the “Installer Folder”, double-click on “Dongle Drivers” and then double-click on “CP210xVCPInstaller_x64.exe” and install the drivers.

Connecting to your PC

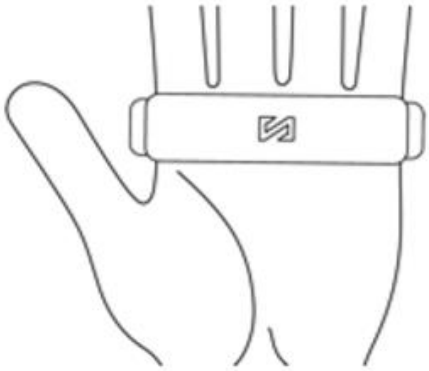
1. Make sure that the VGW0010 Software Package has been installed by following the steps under sub-heading “Installation”.
2. Make sure that the VGW0010-SDK is running in your taskbar.



3. Plug in the supplied Bluetooth dongle. **Note:** If the VGW0010-sdk is not already running, the dongle will not connect to the PC.
4. Power on the VGW0010, by firmly pressing the Vicara logo on it and releasing.
5. On successful connection, the LED on the VGW0010 Controller should be solid Green.
6. If not connected the VGW0010 Controller will blink blue.

Wearing your VGW0010 Controller

Note: If not worn correctly, the VGW0010 Controller may not perform as per expectation.



1. Set the strap buckle to an approximate hole, for the size of your palm.
2. Press on the sides of your strap with the wavy pattern and slide your palm through it. The USB slot should be pointing in the direction of your fingers and the logo should lie on the inner side of your palm. **Note:** Refer the above figure for correct placement.
3. The face of the VGW0010 Controller with the USB slot should be just below/in-line with the base of your fingers.
4. The length of the VGW0010 Controller should match the length of your palm as closely as possible.
5. To remove the VGW0010 Controller, simply press on the sides of the strap with the wavy pattern and slide your palm out.

Power On/Off

1. To power on/off your VGW0010 Controller, all you need to do is press the logo (1) firmly on the strap and release it once you hear a click. Refer to the video “Power On/Off” in the “Video Resources > Operations” Folder.
2. To indicate the power being on, the LED on the VGW0010 should turn on.
3. When on your hand, we recommend pressing the button with your thumb or your hand without the VGW0010 Controller on it.

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LED Status Guide

S. No.	LED Status	Meaning
1	Blue and blinking	The VGW0010 is waiting to connect
2	Green solid	The VGW0010 is connected
3	Red and blinking	The VGW0010 is charging
4	Red solid	The VGW0010 is in DFU mode

Calibrating your VGW0010 Controller

Note: Perform these steps only if the VGW0010 Controller does not exhibit expected behaviour.

Hand Orientation

1. This helps the VGW0010 Controller understand which hand you are wearing it on and accordingly translate gestures.
2. Make sure the VGW0010 Controller is switched on and connected. (Green solid LED)
3. Right-click on the VGW0010-SDK running in the taskbar.
4. Click on “Calibrate to right hand” or “Calibrate to left hand”.
5. The calibration should be complete.

IMU Calibration

1. This calibration helps the VGW0010 Controller understand the orientation it is in more accurately.
2. Take off the VGW0010 Controller and place it, logo side down on a flat surface. Refer to the video “IMU Calibration” in the “Video Resources > Operations” Folder.
3. Right-click on the VGW0010-SDK running in the taskbar.
4. Click on “IMU Calibration”.
5. After about 10 seconds, the VGW0010 Controller should vibrate.
6. The calibration should be complete.

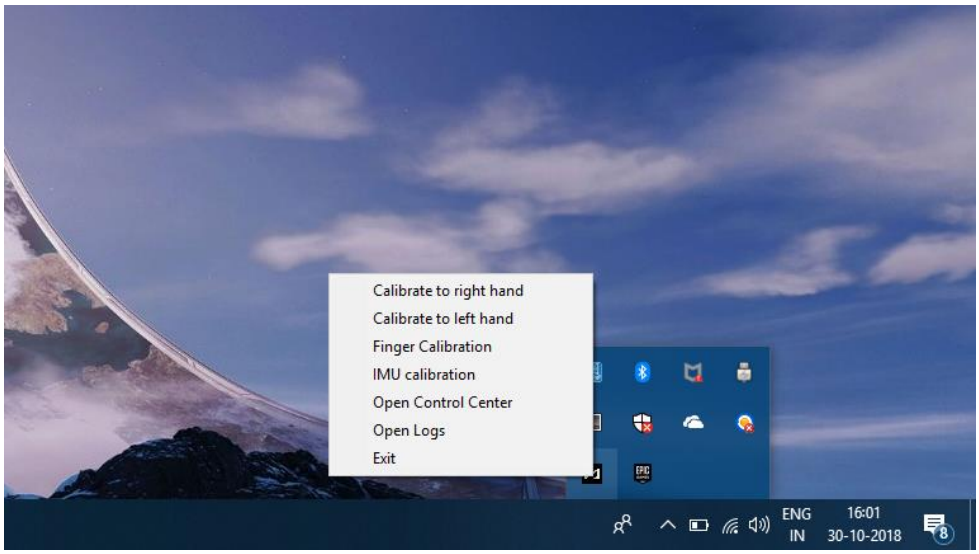
Finger Calibration

1. This calibration helps the VGW0010 Controller understand when, which fingers of yours are down and when they’re not.
2. Wear the VGW0010 Controller appropriately as described in subheading “Wearing your VGW0010 Controller”.
3. Right-click on the VGW0010-SDK running in the taskbar.
4. Click on “Finger Calibration”.
5. Slowly bring down each finger individually until it is about a finger’s width from the black inner module and take it back up. Refer to the video “Finger Calibration” in the “Video Resources > Operations” Folder.
6. Once you have done this for all 4 fingers, keep your fingers clear of the face of the VGW0010 Controller with the USB slot.
7. After about 10 seconds the VGW0010 Controller will vibrate.
8. The calibration should be complete.

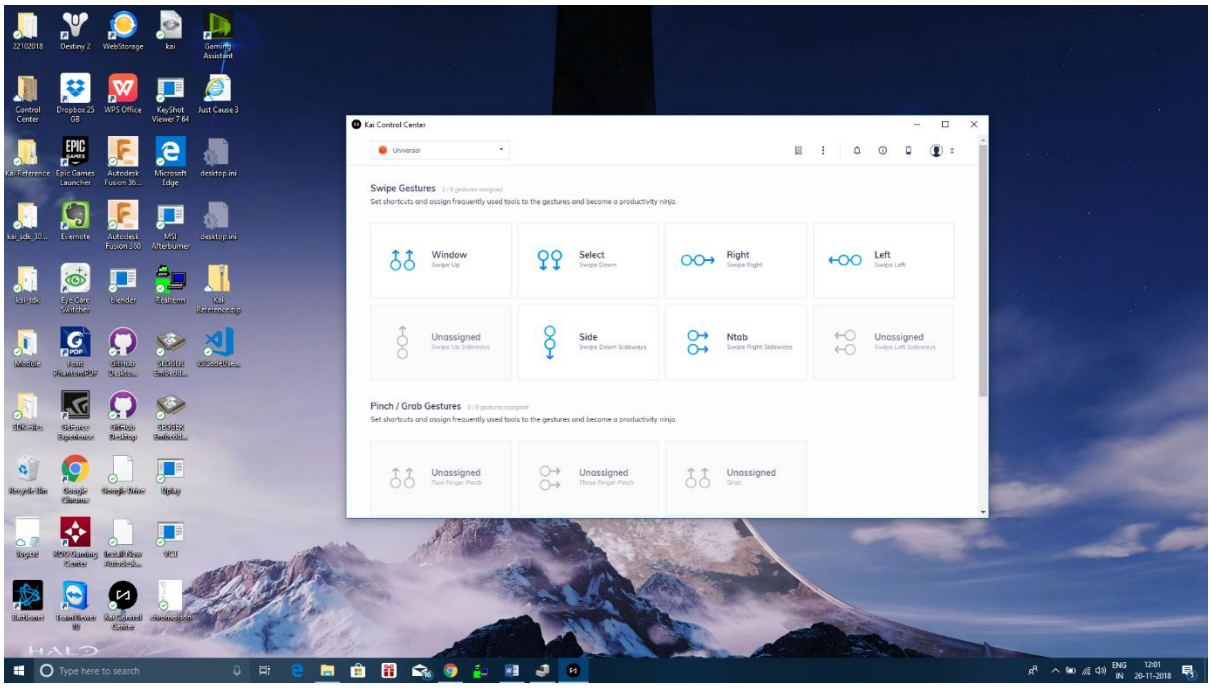
Configuring Gestures

Opening the Control Center

1. Right-click on the VGW0010-SDK icon in the taskbar and click on “Open Control Center”.



2. This should bring up the Control-Center. The tab named universal executes gestures in Windows 10 related screens, like the file explorer and desktop.



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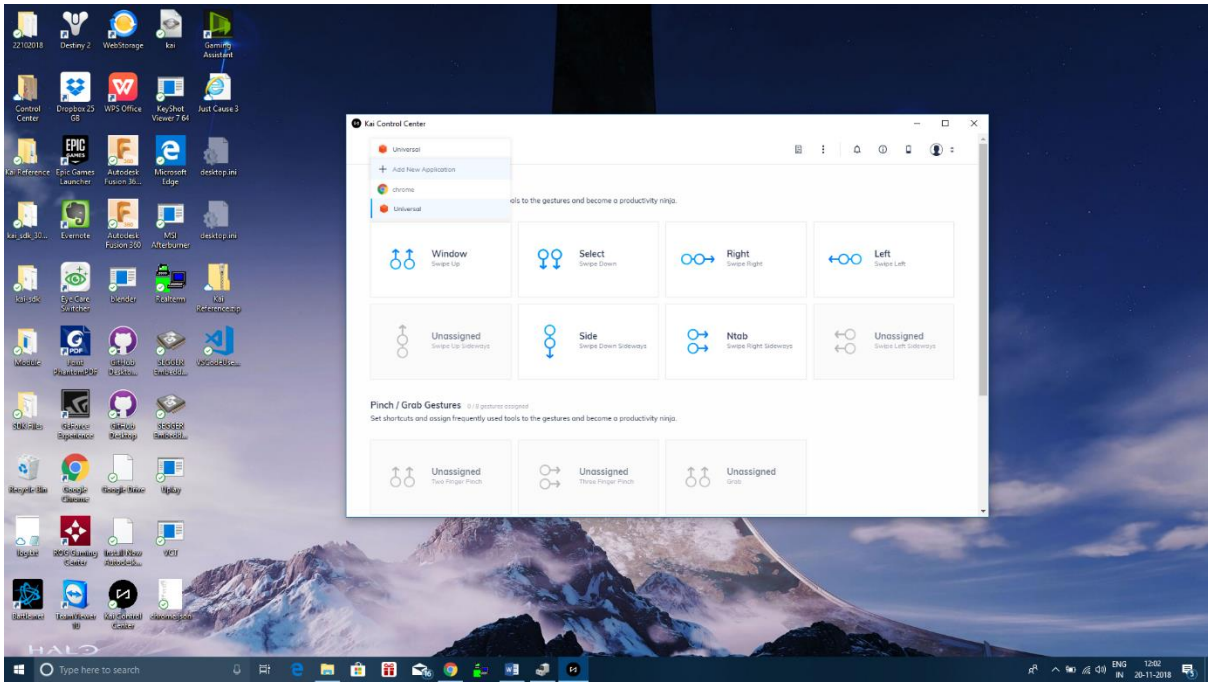
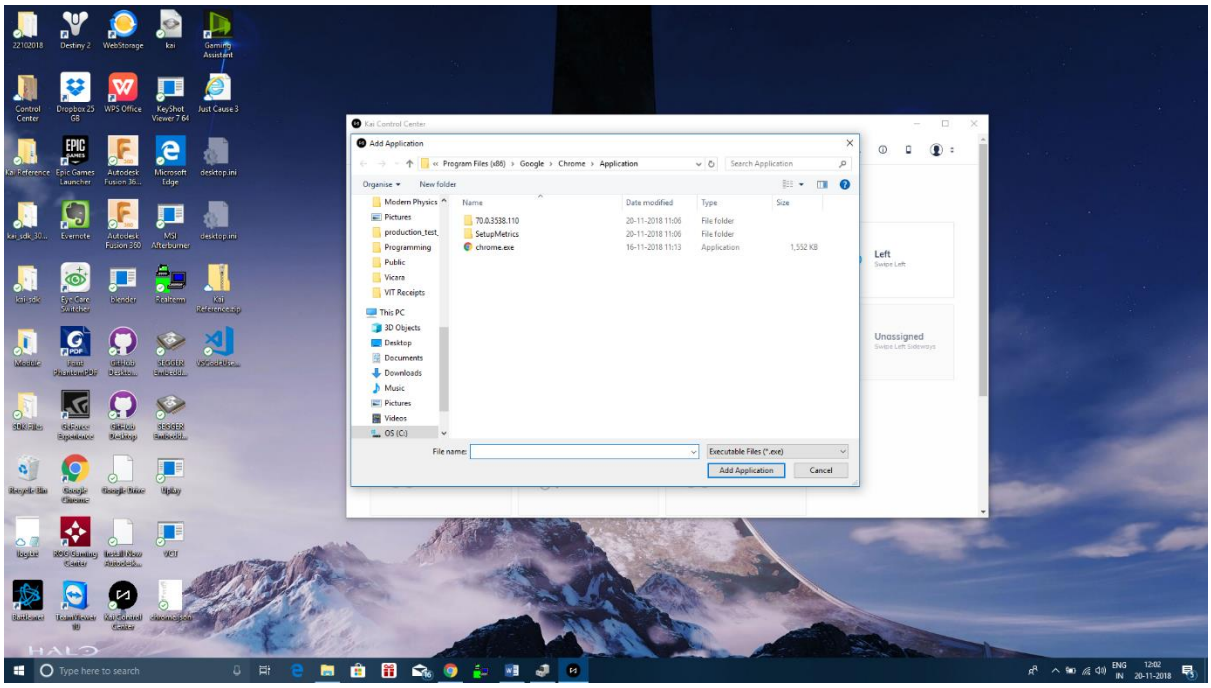
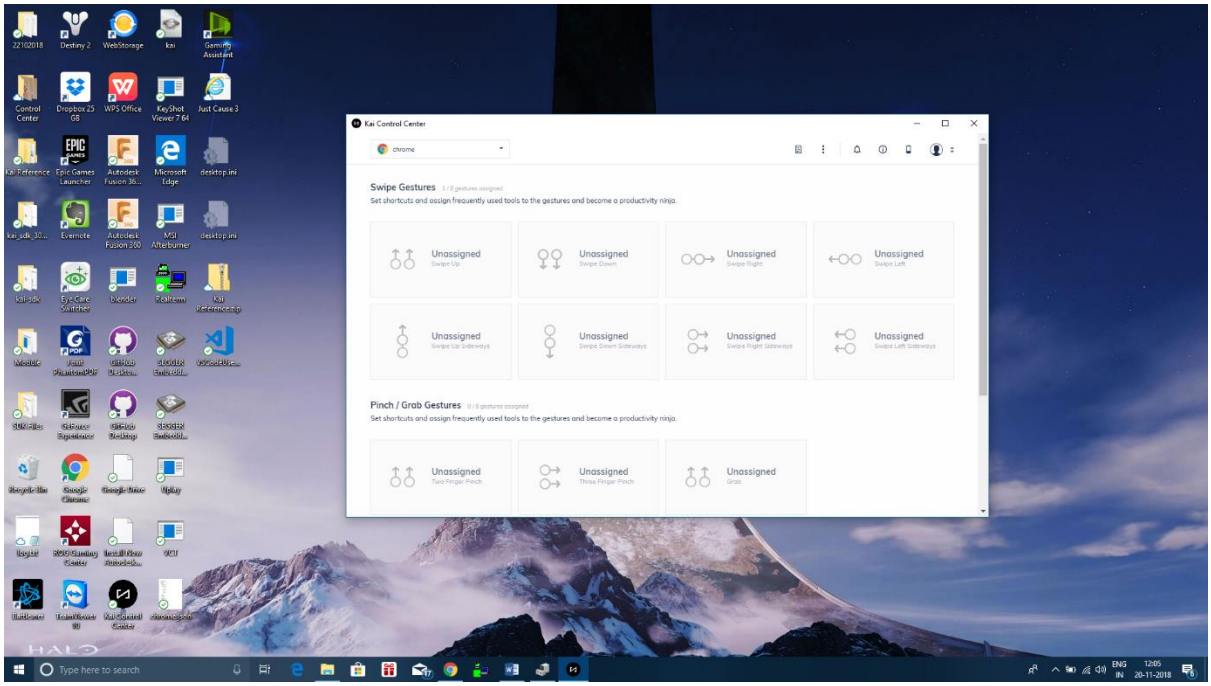
Adding a New Application Profile

1. To add a gesture profile to an application, click on the drop-down menu on the top left corner. Then click on the “+ Add New Application” button and select the executable file for the application.



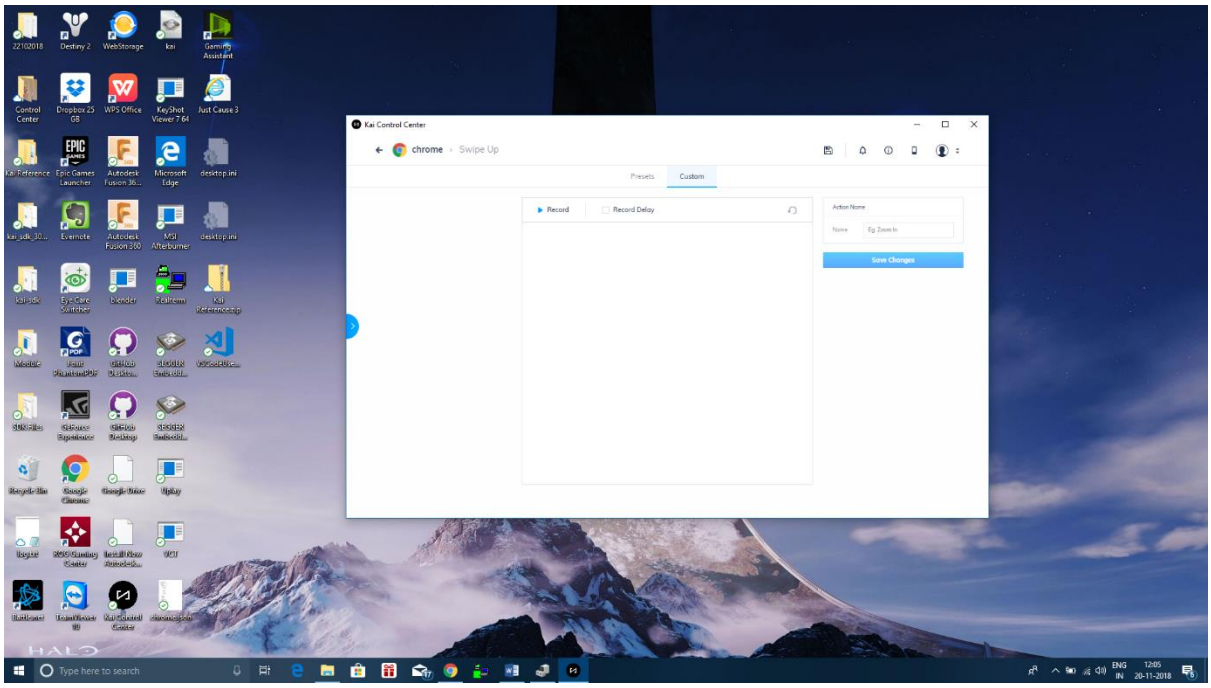


2. This will open a new menu that is named after the application with unmapped gestures.

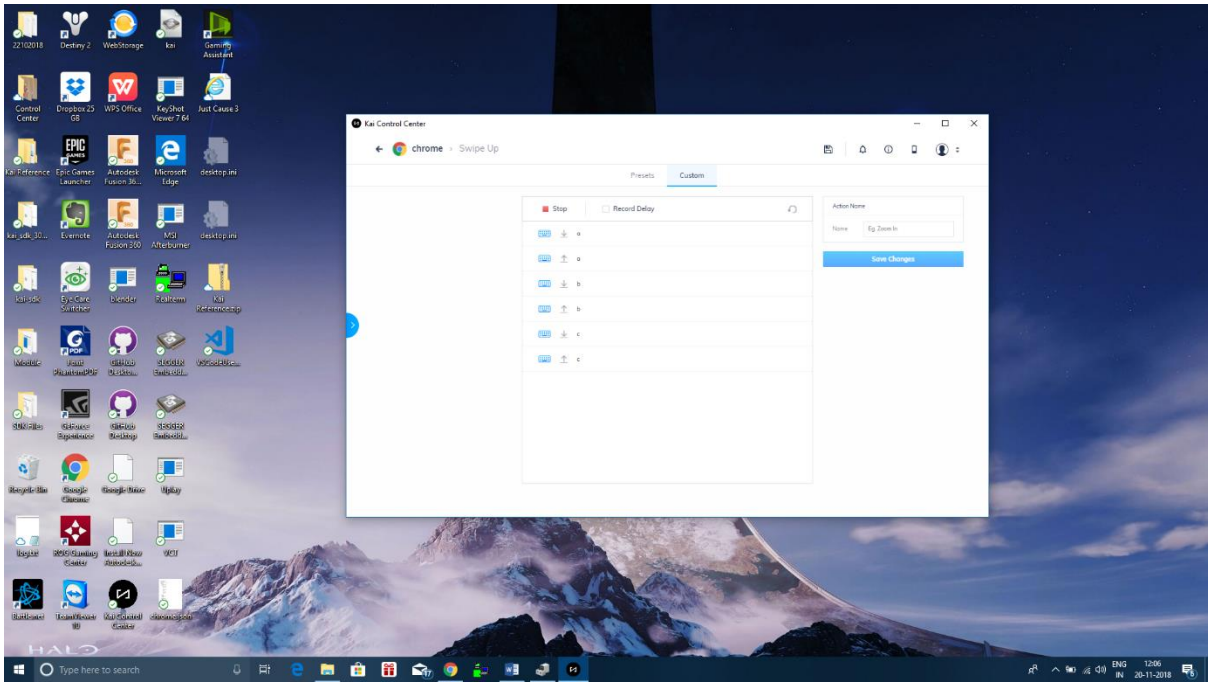


Configuring a New Gesture

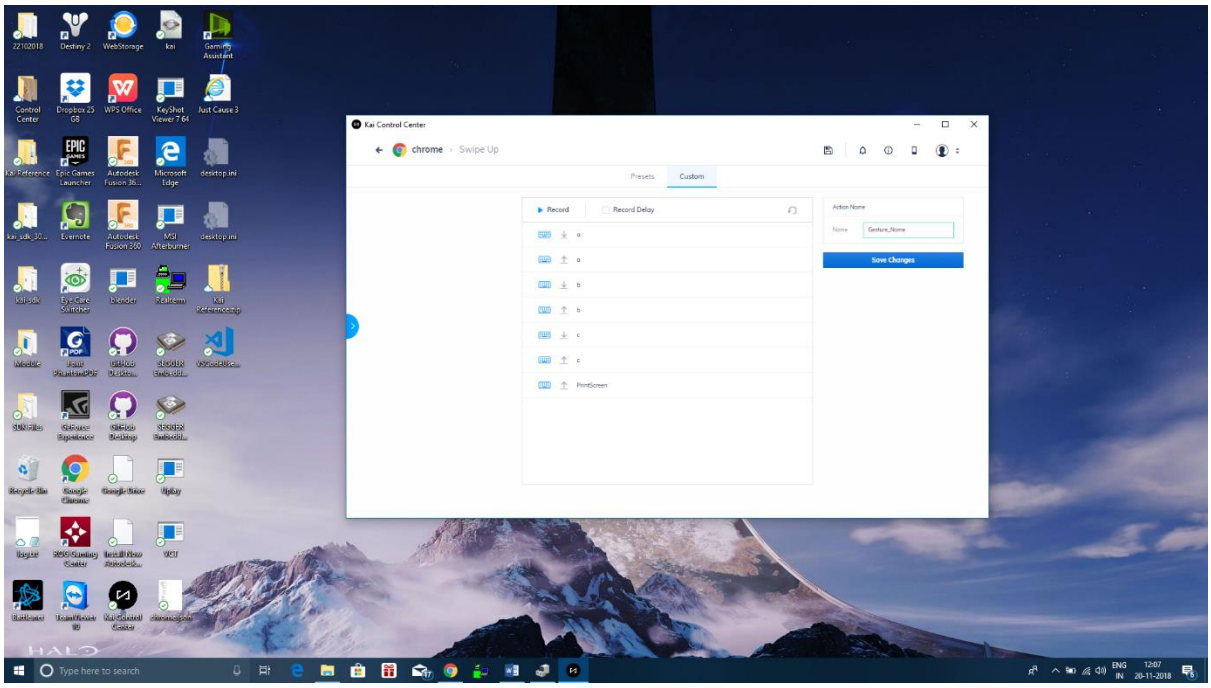
1. Hover on any of the greyed-out gestures and click on “Assign”, to configure what that gesture does in the application.



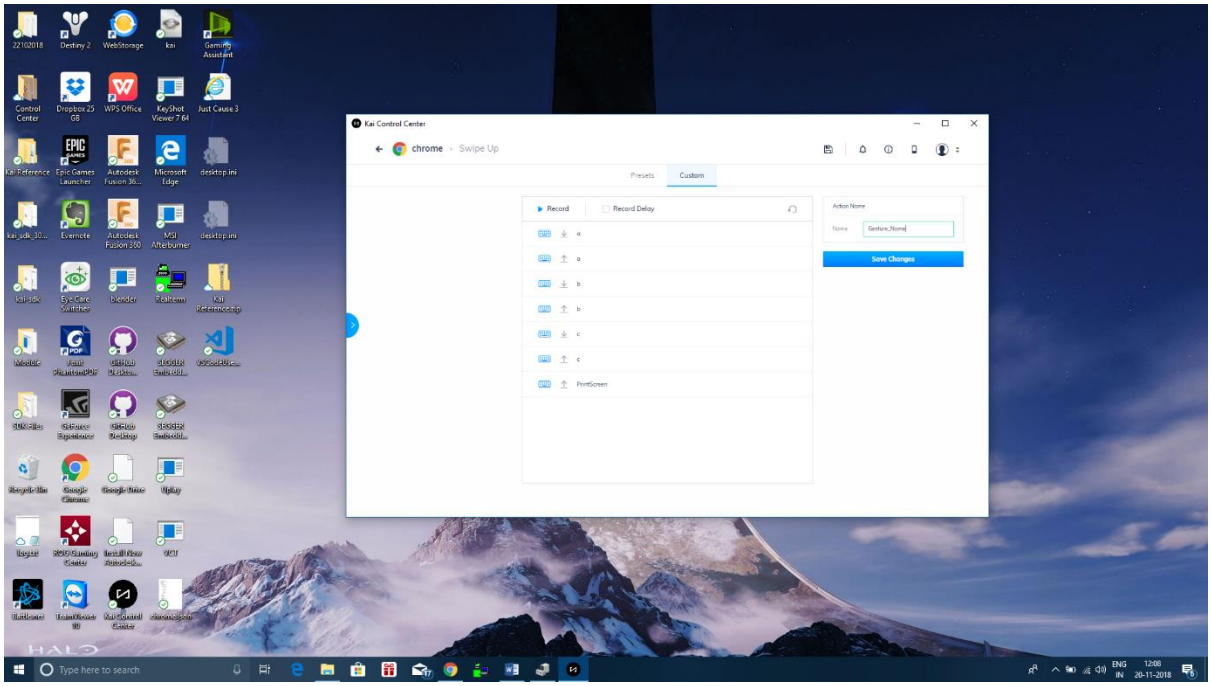
2. Click on the blue “Record” button to record a keyboard macro that will be executed when the gesture is performed.



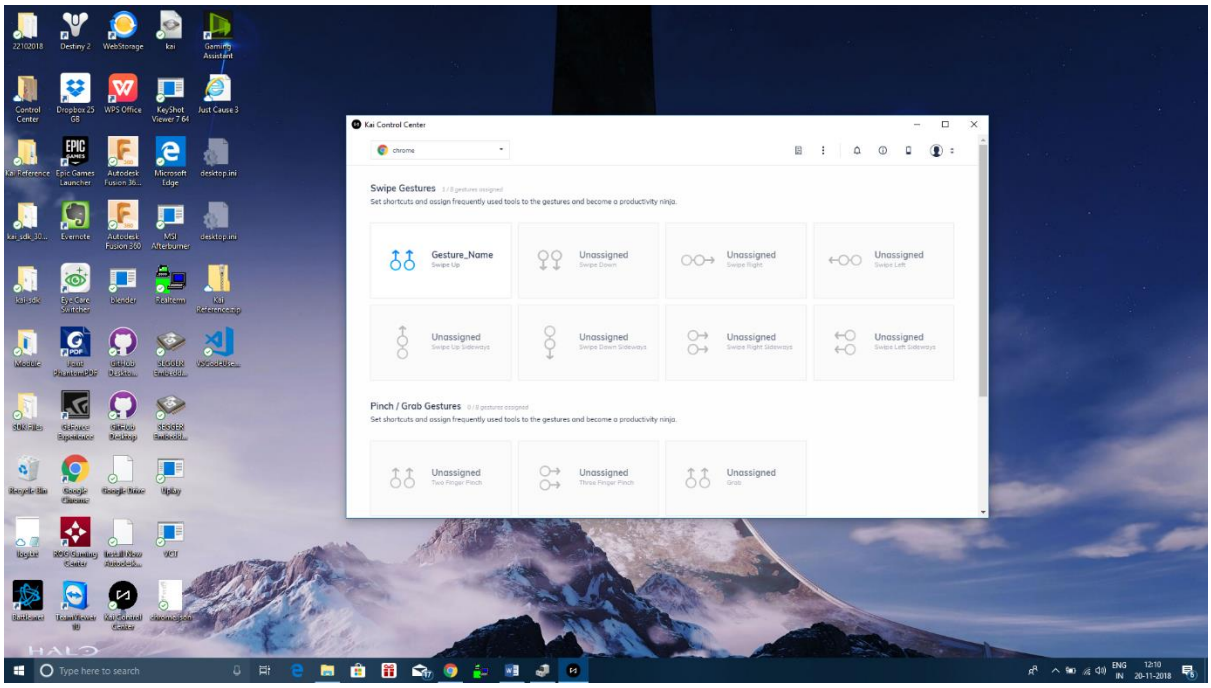
3. To stop recording, click on the blue “Stop” button. You can now assign a name to the given action for further reference.



4. To re-record, you can click the “Reset button” in the top right corner of the Macro-box.



5. Once you are done, click on the blue “Save Changes” button to save your macro.



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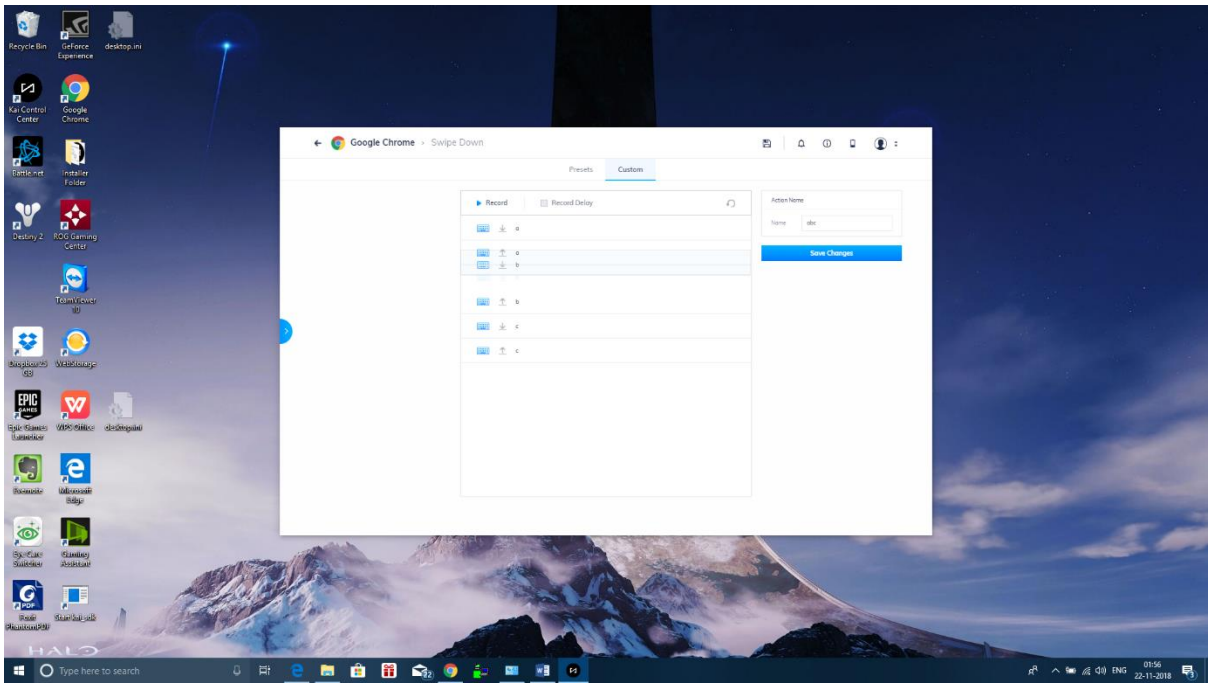
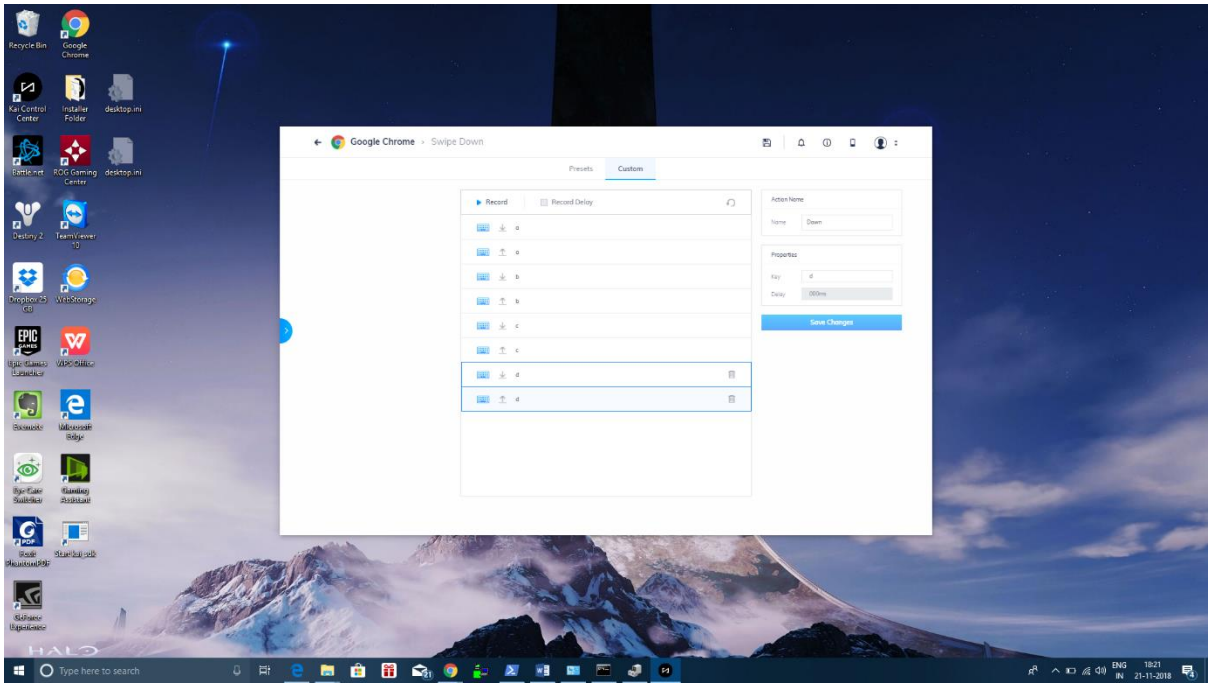
Editing a Key Stroke

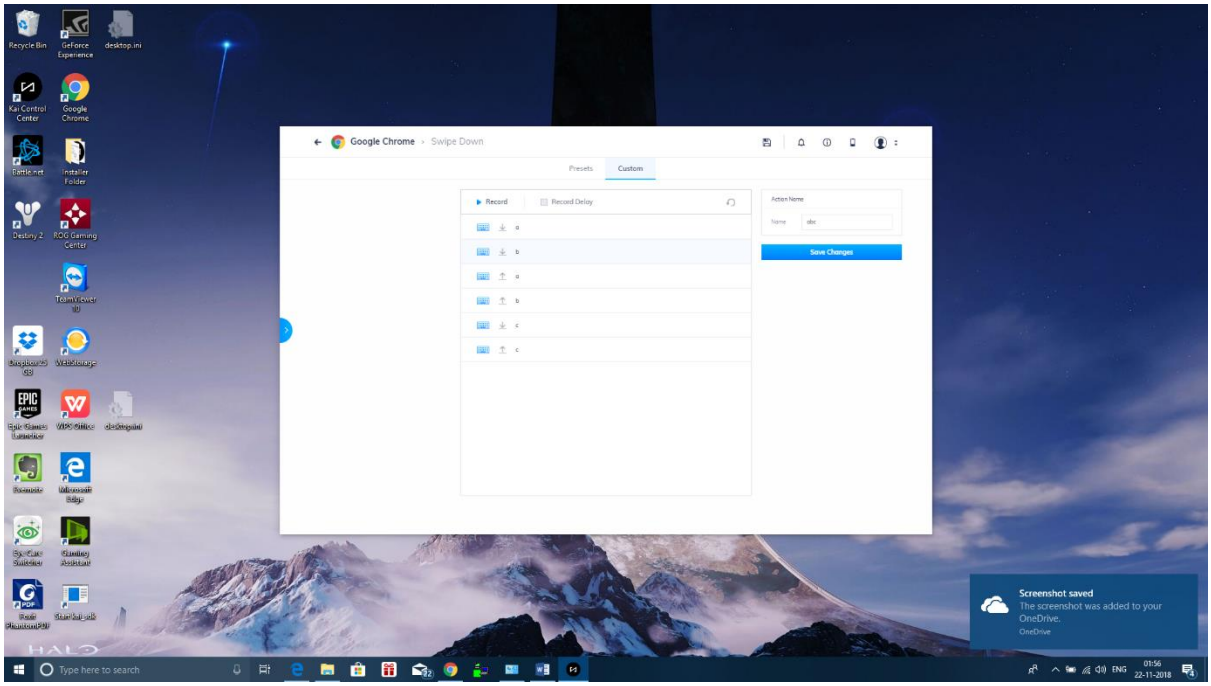
1. To move a keystroke, once recording has been stopped, click and hold the keystroke then drag and drop to reposition the keystrokes in the macro.



2. To delete a particular key-stroke, once the recording has been stopped, click on the keystroke to be deleted. Finally, click on the trash-can icon on the selected keystroke.



3. Click on “Save Changes” to finish.



How to Perform a Gesture

Swipe Gestures

- Bring your ring finger and pinky finger down. Keep your palm parallel to the ground with the logo facing down. In this position, the “Swipe Up”, “Swipe Down”, “Swipe Right” and “swipe Left” gestures can be performed.

Side Swipe Gestures

- Bring your ring finger and pinky finger down. Keep your palm perpendicular to the ground as if making a gun with your fingers. In this position, the “Side Swipe Up”, “Side Swipe Down”, “Side Swipe Right” and “Side Swipe Left” gestures can be performed.

Pinch Gestures

- Keep all your fingers up, then keep your palm perpendicular to the ground in a such a way as a traffic policeman gesturing to stop. In this position, the “2 Finger Pinch”, “3 Finger Pinch” and “Grab” gestures can be performed.

Note: For a demonstration of the above gestures, please find the respective videos and an overview video in the “Gestures” folder, in the “Video Resources” folder.

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Uninstallation

1. To uninstall the “VGW0010 Control Center”, go to “Control Panel > Programs & Features > Uninstall a Program”.
2. From the list find “VGW0010 Control Center 0.4.0”, select it and click “Uninstall”.
3. For the VGW0010-sdk, go to the “Installer Folder” that was downloaded during installation.
4. Right-click on the “uninstall-script.cmd” and select “Run as Administrator”.
5. You will have successfully uninstalled the VGW0010 Software Package.

Troubleshooting

Note: Follow these steps if the VGW0010 Controller stops responding.

1. Check if there are any drivers missing in the Device Manager and install them. To access device manager press “Windows Key + X” then “M”.
2. Power off the VGW0010 Controller wait for a few seconds. Power the VGW0010 Controller back on. Check if this resolves the issue.
3. If the problem is not resolved with the above, repeat step 1.
4. If the problem is still not resolved, power off the VGW0010 Controller. Pull out the dongle. Exit the VGW0010-SDK by right-clicking and selecting exit. Restart the VGW0010-SDK. Plug the dongle in. Power the VGW0010 on and wait for a few seconds.
5. If the problem is still not resolved, please contact support@vicara.co

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. This equipment 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 equipment 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 equipment 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 equipment and receiver.
- Connect the equipment 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.

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, and
(2) this device must accept any interference received, including interference that may cause undesired operation.