# Cross Hair User Manual

**V3.2**

**Aug, 2015**



This manual is the intellectual property of ReaSnow. It must only be published in its original form. Using parts or republishing altered parts of this document is prohibited without permission from ReaSnow.

# Table of Contents

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━

## Chapter 1：Introduction: What is Cross Hair

Cross Hair aims to provide the best mouse and keyboard control solution for all game consoles (such as PS4, PS3, XBOX ONE,XBOX 360 etc), and the freedom to choose between the keyboard, mouse, joystick, and other controllers.





For beginners, Cross Hair can give you a smooth and easy experience while playing games using your own keyboard and mouse. On the contrary，a controller for aiming in FPS(First-Person Shooting) games is really troublesome.

For advanced users, it lets you enjoy the game as you wish with whatever hardware you

like: the gaming-grade keyboard and mouse or joystick or preferred controller.

Cross Hair has 4 working modes, which you should know.

●**PLAY MODE**: When connecting to game console, controller, keyboard and mouse are ready, its LOGO will be a breathing color, and then you can play your game.

●**PC MODE**: When connecting to PC and no USB device plugged into it, its LOGO will be white, then it can be configured on PC by using Cross Hair Manager. Meanwhile you can upgrade firmware and restore factory configuration in this mode.

●**CONFIG MODE**: Any time while playing a game (in PLAY MODE), just press SHARE+OPTIONS (PS4 platform) keys on your controller to enter this mode and the LOGO's light will be turned off in this mode. Then you can change settings and get instant feed back.

●**REPAIR MODE**: Hold down the button, then plugging Cross Hair into your PC, when the LOGO is green, you can then release the button, and a stable green light means **REPAIR MODE**. In this mode, Cross Hair's firmware and configurations can be repaired.

| MODE | Sound on start | Color | Function | Attached Device |
|---|---|---|---|---|
| **PLAY MODE** | 1 beep | Breathing color | Play games | Controller, KB, MS |
| **PC MODE** | 2 beeps | White | Configure and upgrade | NO |
| **CONFIG MODE** | 3 beeps | Black | Configure in game | Controller, KB, MS |
| **REPAIR MODE** | 4 beeps | Green | Repair firmware | NO |

Please refer to **chapter 2.4** and **5.7** for **CONFIG MODE** and **REPAIR MODE** details.

**Color and Sound**：

| Mode | COLOR | BEEP | Function |
|---|---|---|---|
| **PLAY MODE** | Breathing color | As configured | |
| **CONFIG MODE** | Black | | |
| | flash red | Higher pitch beep | HIP ADD |
| | flash red | Lower pitch beep | HIP SUB |
| | flash green | Higher pitch beep | ADS ADD |
| | flash green | Lower pitch beep | ADS SUB |
| | flash blue | Normal beep | Key mapping |

**1.1 Advantages**

● Support all platforms: PS4/PS3/ XBOX ONE/XBOX 360

● Mice, Keyboards, Joysticks compatibility

● Cross platform controller usage (All controllers on any console)

● Intelligent Engine (best mouse precision, 1:1 movement in game)

● Most of the settings can be adjusted on the fly

● Xbox headsets supported

● Firmware in field upgrade

● Active community online

● Seamless aluminum enclosure

● Color and sound indication (clear and convenient)

### 1.2 Technical Specifications

| Outline | 75*75*22mm | |
|---|---|---|
| Net Weight | 105g | |
| Platforms | PS4/PS3/XBOX ONE/XBOX 360 | |
| Configuration | 16 configurations, user defined | |
| Color | Black | |
| PORT | 3 USB ports | For controller, keyboard and mouse |
| | 1 MINI USB device port | Connecting to game console |
| BUTTON | | Firmware repair |
| BEEPER | Internal beeper | Sound indication |
| Temperature | -10~50℃ (14~122℉) | |
| Humidity | Below 90% | |

### 1.3 To know Cross Hair
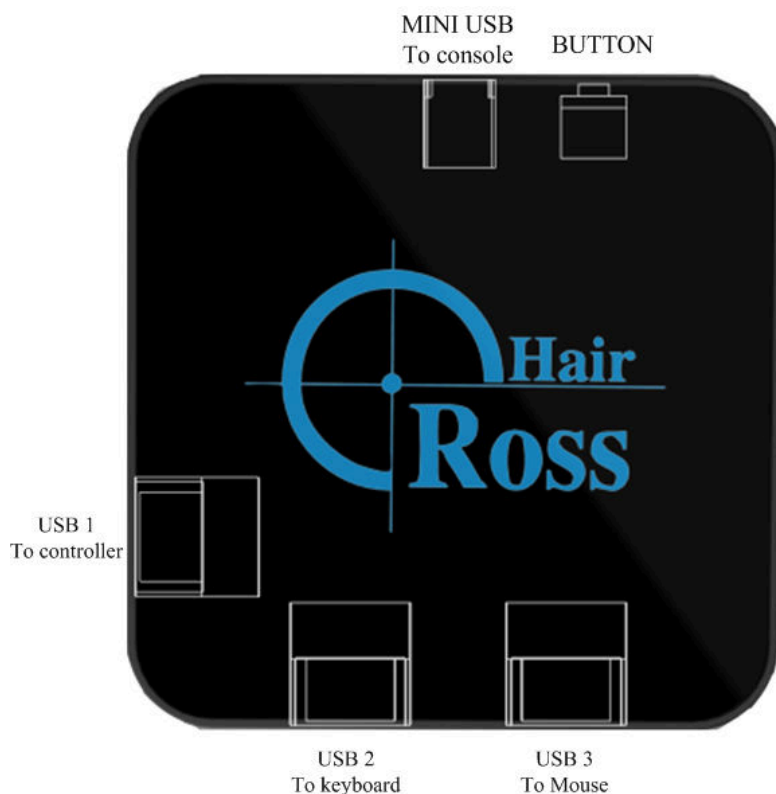


**MINU USB:** Connect to game console.
**USB1:** Connect to the genuine official wired controller shipped with game console. As for wireless controller, just connect it with suitable USB cable to this USB port. The exception is that Xbox 360 requires a genuine wired Xbox 360 controller.
**USB2:** Connect to your keyboard, joystick or other controller.
**USB2:** Connect to your mouse.
**BUTTON:** Firmware reparation.
**LOGO LED:** Status indication.
**Internal Beeper:** Status indication. You do not need to look at Cross Hair and will be

informed of meaning based on the sound.

**1.4 Connections (PLAY MODE)**



● **Firstly, connect controller(USB PORT1) and keyboard and mouse(USB PORT2-3) to Cross Hair, then, connect Cross Hair to console.**

| USB PORT | DEVICE TO BE CONNECTED |
|----------|------------------------|
| USB 1 | Official wired controller |
| USB 2 | Keyboard or joystick or other controller |
| USB 3 | Mouse |

Please refer to **Chapter 3.2** for more connection options.

# Chapter 2：Setting Up Cross Hair

**2.1 Simple set up steps**
**2.1.1 Step 1: Connect to PC (PC MODE)**

● Please connect your Cross Hair according to the figure above, using the USB cable included in the package. **Make sure that there is no controller, keyboard, mouse, joystick or anything else plugged into it.** And when Cross Hair LOGO is white, it enters into **PC MODE**, and can then be configured on PC.

**2.1.2 Step 2: Run Cross Hair Manager (Windows OS only)**
Run Cross Hair Manager which can be downloaded from http://www.reasnow.com
Please choose the latest version.



**2.1.3 Step 3: Choosing console and game**

● Choose the game console you are going to use by clicking on the right-arrow button



● If there is already a configuration of the game you want to play, choose the configuration and click on the "Edit" button, this is the fastest way.

● If there is no existing suitable configuration, just click on the "New" button to add a new configuration. Make any changes as you see fit.

● If the game you want to play do not exist, just choose the "custom game". This setting has the highest possibility of working, as most games are not varied very much from each other.
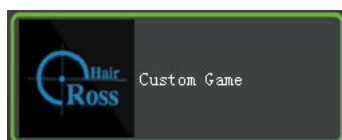


● **Remember to mark the configuration most frequently used as "Start Up". Click the configuration first then click on the "Start Up" button.** Then this configuration will be activated automatically every time when Cross Hair is powered on.

### 2.1.4 Step 4: Edit Configuration

For convenience, you can use the default settings, but should remember the keys' mapping, while advanced users can choose their favorite settings. For details of every setting, please refer to **chapter 2.2**

**2.1.5 Step 5: Save and Exit**

You should save the configuration first, before exiting Manager, and after that, unplug the Cross Hair from PC.

<span style="color:red">**Changes you made will not be saved in you Cross Hair until you have clicked on the "Save" button. Do not shake the USB cable, unplug it, or turn off your PC during the saving. These behaviors will damage your Cross Hair.**</span>

**This is the final step before you can enjoy gaming. But if you want to know Cross Hair better, the following chapters are also very important.**

**2.2 Basic Settings**

**2.2.1**  **Choose platform**

By clicking on the right-arrow button, you can choose from PS4/PS3/XBOX ONE/XBOX 360.

**2.2.2**  **Save configuration**

Any change made to an existing configuration or made by adding a new one has to be saved in Cross Hair by this button.

**2.2.3**  **Edit an existing configuration**

If you want to change existing configurations, you can use "Edit" button for this purpose.

**2.2.4** New **Add a new configuration**

If a new configuration is your choice, just click on the "New" button, and you can then make detailed changes.

**2.2.5** Copy **Copy a configuration**

If you would like to add a configuration that is similar to an existing one, you can copy a configuration and make necessary changes.
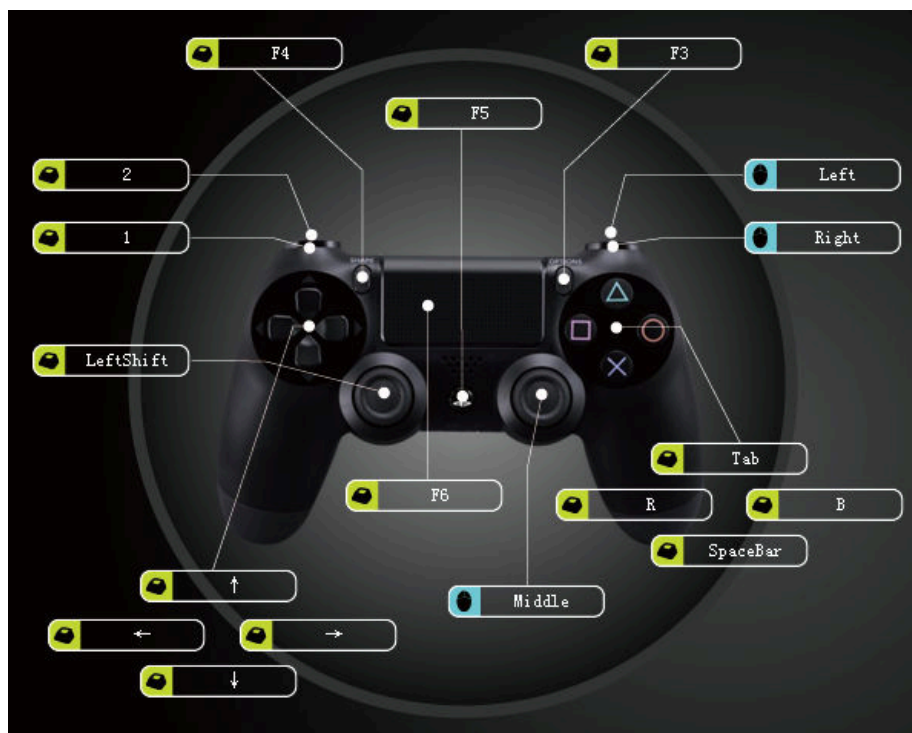
**2.2.6** Delete **Delete a configuration**

If you want to delete a configuration, click it first and then click on the "Delete" button.

**2.2.7** Start Up **Set a certain configuration as Start Up**.

Select one configuration first and click on the "Start Up" button. Then this configuration will be activated automatically every time when Cross Hair is powered on.
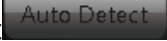
**2.2.8 Key mapping**



Click the mapped key icon, and you will enter into a mapping dialog as shown below.

Firstly, choose the hardware from the options of mouse, keyboard, joystick and NONE.

Secondly, use Auto Detect [Auto Detect] or Drop-down menu [                    ], to select the key you want to use, and to substitute a certain key on controller.

Thirdly, click OK to end this mapping.

**2.2.9** [Name: Battlefield 4] **Change the name you want to use in this field.**

**2.2.10** [Color: ] **Clicking the color will change the color of LOGO.** This color can indicate which configuration you are using.

**2.2.11** [HotKey: F5] **Choose the hotkey for this configuration for fast activation.**

Once the hotkey is invoked in **PLAY MODE**, this configuration will be activated instantly.

Please pay attention to this function, it can not only be used to swap between different games but also to swap between different battle modes. Such as, you set up a configuration for infantry in BF4 and you also set up another configuration for tank in BF4 with different keymapping and HIP/ADS sensitivity. With this function in hand, you can swap between different battle modes instantly during your gaming.

**2.2.12 Stick mapping**
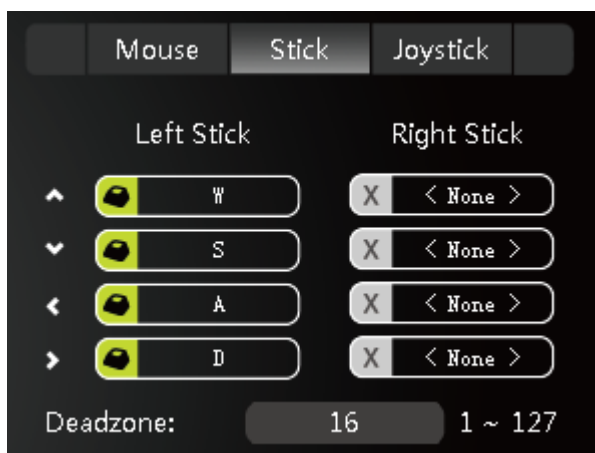
● Choose keys from keyboard or mouse or joystick to replace left stick and right stick.

● The dead-zone here is used to adjust the original controller, the one plugged into USB port 1. Leave it as default, if you have no trouble with the sticks on controller. A smaller value means more sensitive, but that may also cause trouble for controlling.

### 2.2.13 Joystick setting
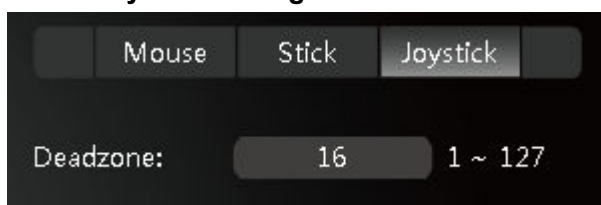


The dead-zone here is used to adjust the third-party controller(Joystick), the one plugged into USB port 2 or 3. Leave it as default, if you have no trouble with that controller.

Such as: Logitech G13,Sony Move Navigation Controller,Logitech Attack3, and other controllers which are used to replace the original one.

### 2.2.14 Mouse Sensitivity
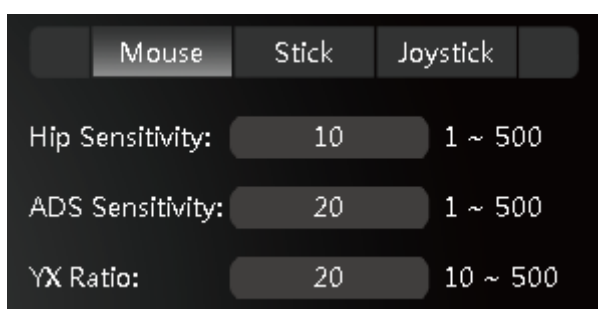


Typically in FPS games, you will have two modes of shooting: HIP and ADS (Aim Down Sight), so you have to set them separately. If you are not familiar with these values, just leave them as default.

Please remember to set mouse's DPI and game's LOOK sensitivity to maximum first. And after these two procedures are done, if the mouse is too slow, you need to set HIP and ADS sensitivity to a bigger value. If the mouse is too fast, you need to set HIP and ADS sensitivity to a smaller value.

As for YX Ratio, it's the ratio of mouse's Y and X direction movement speed. Do not

change it, unless you understand its meaning.

### 2.2.15 Primary and secondary mapping

This right-arrow button is used to switch between primary and secondary mapping. In this way, you can have two options for one key on the original controller.

As default, the secondary mapping is used for a third-party controller. You can change that to whatever you like.
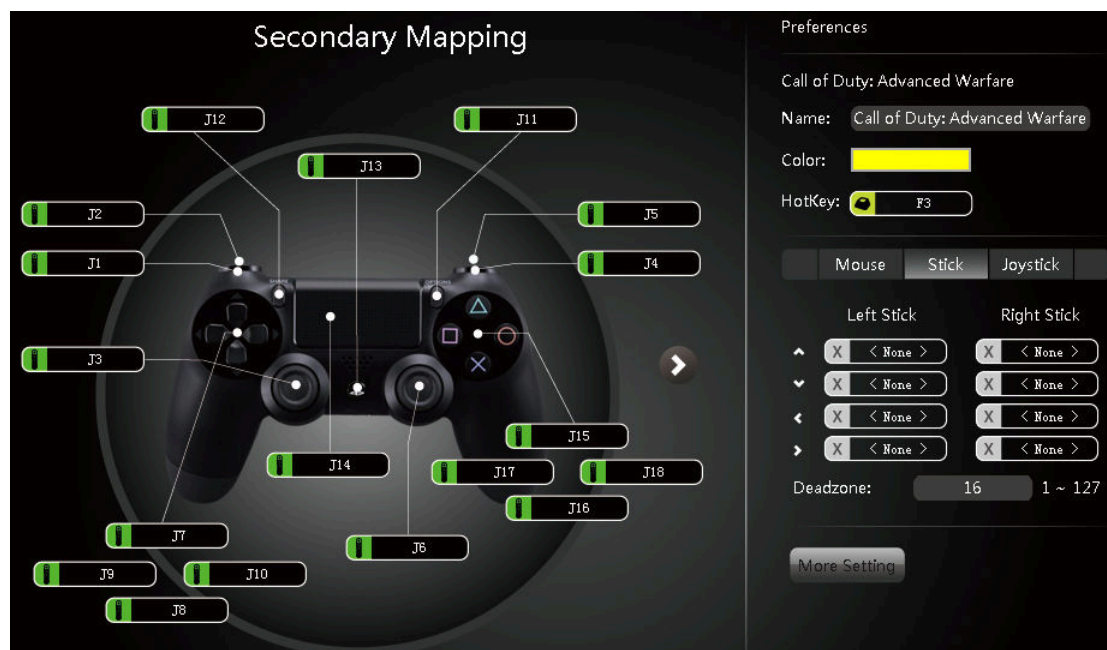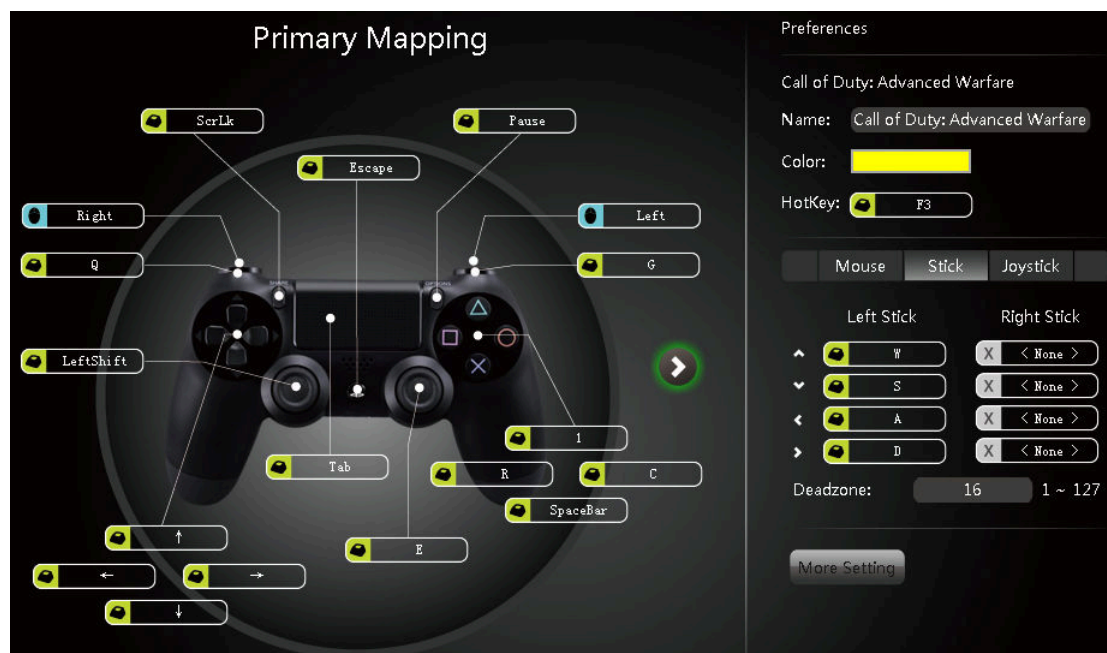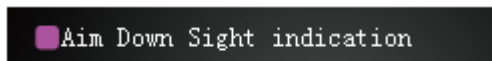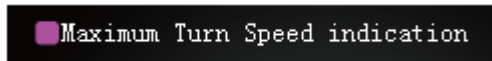




### 2.2.16 More settings

**More Setting**

This button will bring you to options that are not frequently used.

### 2.2.17 Notification settings

**Maximum Turn Speed indication**
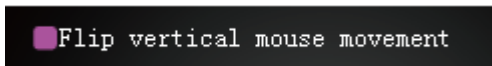
**Aim Down Sight indication**

**Maximum Turn Speed indication:**
If selected, when turn speed exceeds maximum, the LOGO will flash red twice.
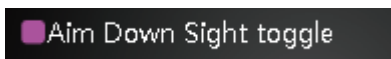**Aim Down Sight indication:**
If selected, when ADS is activated, the LOGO will flash green twice.

### 2.2.18 Flip vertical movement

**Flip vertical mouse movement**

Once enabled, your mouse's vertical movement will be flipped.

### 2.2.19 Aim Down Sight toggle

**Aim Down Sight toggle**

Once enabled, you can activate ADS firing by clicking the corresponding key, such as the right key of mouse. And clicking again on the same key will deactivate ADS firing. You do not need to hold the key all the while.

### 2.2.20 Custom Game options

Aim Down Sight: L2\LT

Deadzone Type: Circle
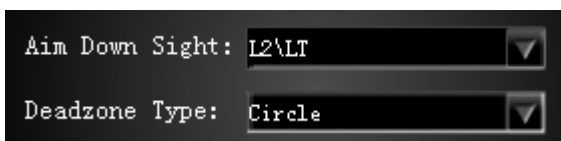
These 2 options are used only for Custom Game, do not change them in preset games.
**Aim Down Sight:** ADS function may be invoked by different key on controller, due to different game and console. If you are using a Custom Game configuration, please select correct key of ADS.
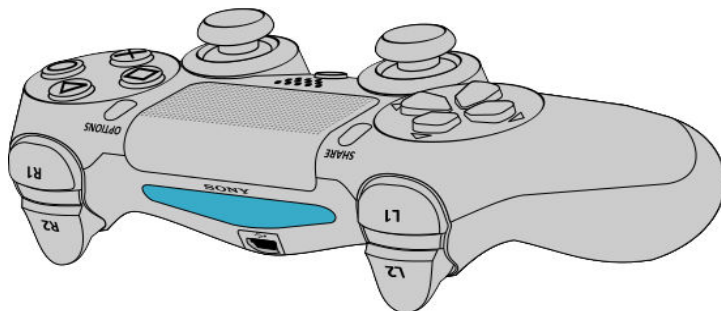
**Deadzone Type:** If you are using a Custom Game configuration, please select correct type of Deadzone according to the game.

### 2.2.21 Load Behavior

Load Behavior ( Standard ∨ )

This option will change the behavior of your configuration, after it was activated by hotkey. There are three choices: Standard, Temporary Hold, and Temporary Toggle.

**Standard:** The configuration is activated by its hotkey and stays active.
**Temporary Hold:** The configuration is activated only when its hotkey is pressed and the previous configuration will be reloaded back when the hotkey is released.
**Temporary Toggle:** The configuration is activated after its hotkey is invoked and the previous configuration will be reloaded back when the hotkey is invoked again.
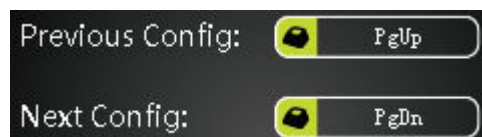
### 2.2.22 Swap L/R sticks

Swap L/R sticks: [ X ] < None >

Once the key is clicked, it will swap the functions of L/R stick. Clicking it again will restore the original state.

### 2.3 Global Settings

### 2.3.1 Previous and next configuration

Previous Config: ● PgUp
Next Config: ● PgDn

These keys can be alternative ways to activate a configuration instead of the hotkey.

### 2.4 Setting up in-game (CONFIG MODE)

We provide our users with this function for the most flexible and comfortable setting experience. Although everything of Cross Hair can be configured on PC using its Manager, you will like setting it up in-game, for this procedure will give you instant feed back when changing the settings.

Any time in game, just press SHARE+OPTIONS（PS4 platform）keys on your controller to enter **CONFIG MODE** and the LOGO's light will be turned off in this mode.

Different platform has different keys to use.

| Game Console | Controller | Keys to enter/exit CONFIG MODE |
|:---:|:---:|:---:|
| PS4 | Dual Shock 4 | SHARE+OPTIONS |
| PS3 | Dual Shock 3 | SELECT+START |

| XBOX ONE | | VIEW+MENU |
|---|---|---|
| XBOX 360 | | BACK+START |

In **CONFIG MODE**, you can use the controller to change HIP and ADS sensitivity as well as key mapping.

**Color and Sound in CONFIG MODE**:

| KEY | COLOR | BEEP | Functions |
|---|---|---|---|
| D-Pad Up | flash red | Higher pitch beep | HIP ADD |
| D-Pad Down | flash red | Lower pitch beep | HIP SUB |
| D-Pad Right | flash green | Higher pitch beep | ADS ADD |
| D-Pad Left | flash green | Lower pitch beep | ADS SUB |
| | flash blue | Normal beep | Key mapping |

After changing settings to you liking, just press the combination keys again, and you will exit the **CONFIG MODE**, and return to **PLAY MODE**.



**2.4.1 Adjusting HIP sensitivity (CONFIG MODE)**
D-Pad Up key is for increasing HIP sensitivity. You will see a flashing red light and hear a higher pitch sound once the key is pressed.
D-Pad Down key is for decreasing HIP sensitivity. You will see a flashing red light and hear a lower pitch sound once the key is pressed.

**2.4.2 Adjusting ADS sensitivity (CONFIG MODE)**
D-Pad Right key is for increasing ADS sensitivity. You will see a flashing green light and hear a higher pitch sound once the key is pressed.
D-Pad Left key is for decreasing ADS sensitivity. You will see a flashing green light and hear a lower pitch sound once the key is pressed.

**2.4.3 Mapping keys (CONFIG MODE)**
In **CONFIG MODE**, to begin a key mapping, you should press the **PS** key (PS4/PS3) or **GUIDE** key (XBOX ONE/360). Then the LOGO will show flashing blue. This means you can choose one key on the controller to be mapped.

Once the key on the controller is pressed, LOGO will show a stable blue light, and then wait for the corresponding key on the keyboard, mouse, joystick, etc. After selecting your key, Cross Hair will keep flashing blue again. Then a new key mapping can be continued.

Just like the general key's mapping, if you are planning to use keys on keyboard or mouse to replace stick on controller, push the stick to its maximum on one direction (such as Up direction), LOGO will show a stable blue light, and then wait for the corresponding key on the keyboard, mouse, etc. After selecting your key, Cross Hair will keep flashing blue again. Then you can continue to map a new direction of this stick.

After mapping all the keys, you can press SHARE+OPTIONS（PS4 platform）keys on your controller to exit the **CONFIG MODE**, and end the mapping procedure.

Mapping keys in **CONFIG MODE** is recommended, as you can get instant response in-game, and all the keys can be mapped. On the contrary, in **PC MODE**, some special keys of your mouse, keyboard or joystick may not be detected due to OS's limitations.

**It is especially recommended to use CONFIG MODE for mapping keys of joystick or controller.**

# Chapter 3：Playing Games

There are still 3 steps before playing
**Step 1: Set mouse DPI to Maximum**
**Step 2: Set sensitivity in game to Maximum**
**Step 3: Change HIP/ADS sensitivity of Cross Hair according to your need**

## 3.1 Step 1: Set mouse DPI to Maximum
**If you have a configurable mouse, please follow 3.1.1 – 3.1.4.**
**If you have a mouse which can not be configured, just skip 3.1.1 – 3.1.4.**
**If your mouse is configurable but have no on-board memory in it that means your settings will be lost when the mouse is unplugged from PC, remember to set its DPI to maximum by using the DPI button on it every time you use the mouse with Cross Hair.**
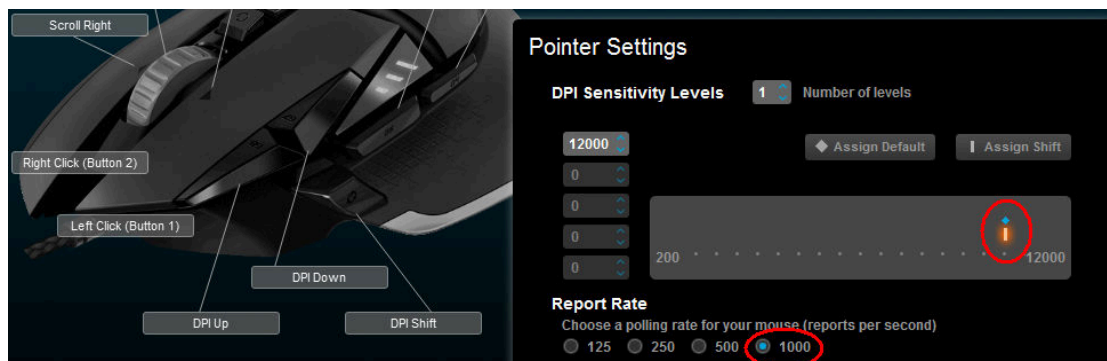
### 3.1.1 Mouse DPI(CPI)
Make sure the mouse you are using is configured at its highest DPI, or you should connect it to a PC, and use some software from the producer to change the DPI to maximum.
**Remember high DPI can give you better experience in game.**

### 3.1.2 Mouse Report Rate

Set your mouse USB polling rate to 500 or 1000.



### 3.1.3 Mouse Button Function

Buttons of some mouse can be configured. If you want to use them to replace buttons from controller, you should set them as standard keys of keyboard or mouse, do not set them as combination keys or special function keys. For example, Ctrl + C, Volume Up/Down, DPI up/down are all unacceptable**.**

### 3.1.4 Save to On-Board Memory

Some mice have on-board memory to store DPI and other settings, please remember to save all these in On-Board Memory.
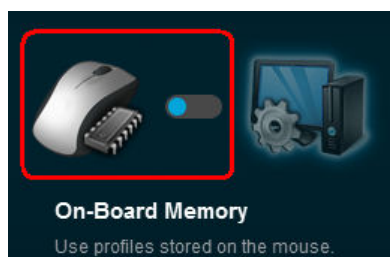


Other mice have no on-board memory, but their DPI can be adjusted, so you need to set their DPI to maximum every time powered on.

### 3.2 Step 2: Set sensitivity in game to Maximum

Please set the game's "SENSITIVITY" or "LOOK SENSITIVITY" to maximum in the game on game console. It may be called insane, maximum, 10, 20 or 100%.
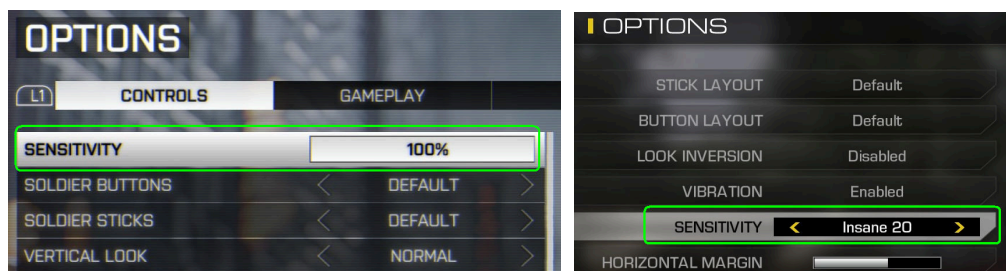
### 3.3 Step 3: Change HIP/ADS sensitivity of Cross Hair according to your need
There are **2 ways** to change Cross Hair sensitivity.

**WAY 1 – using PC software (Manager):**

| Hip Sensitivity: | 10 | 1 ~ 500 |
| ADS Sensitivity: | 20 | 1 ~ 500 |
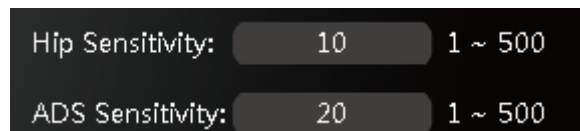
Cross Hair has 2 sensitivities : HIP Sensitivity and ADS Sensitivity

The bigger the value, the faster the mouse movement. You can change them to a suitable value, according to your mouse and game.

**HIP:** Shooting without aiming optics
**ADS:** Shooting with aiming optics

**ADS sensitivity is normally bigger than HIP.**



| YX Ratio: | 20 | 10 ~ 500 |

**YX Ratio:**
It's the ratio of mouse's speed in Y and X directions. Do not change it, unless you understand its meaning.

**WAY 2 – using controller in Config Mode:**



1. Any time in game, just press SHARE+OPTIONS（PS4 platform）keys on your controller to enter **CONFIG MODE** and the LOGO's light will be turned off in this mode.

2. Use the Dpad keys on controller to change HIP and ADS sensitivity of Cross Hair.

3. After changing settings to you liking, just press the combination keys again, and you will exit the **CONFIG MODE**, and return to **PLAY MODE**.

**Other important things:**

● **Battery of controller or mouse**

Make sure your controller is fully charged and off, and the mouse is also fully charged, if there is battery in it.

● **Controller's layout in game**

Your controller's layout should be set as default, and change of these will confuse Cross Hair.

**3.4 Ways to Use Cross Hair**

Connect all devices (controller/keyboard/mouse) to Cross Hair first, and then connect Cross Hair to game console.

**1. Use a keyboard and mouse instead of controller**

**2. Use a joystick and mouse instead of controller**



**3. Use another controller instead of the original one (Cross platform controller usage)**

**The controller connected to USB 1 should always be the original one shipped with the console.**

Only official controllers are tested and recommended!
**Supported Controller:**

| Game Console | DS4 | DS3/ Sixaxis | XBOX ONE CONTROLLER | XBOX 360 CONTROLLER |
|:---:|:---:|:---:|:---:|:---:|
| PS4 | | ● | ● | ● |
| PS3 | ● | | ● | ● |
| XBOX ONE | ● | ● | | ● |
| XBOX 360 | ● | ● | ● | |

**PS1. Connect all devices to Cross Hair first, and then connect Cross Hair to game console. That is the procedure we recommend. Change your connection only when Cross Hair is powered off.**

**PS2. Make sure to logout the user on your game console before connect Cross Hair to it. Or connect all the devices before game console is powered on.**

**PS3. It's better to turn off your controller on game console before connecting it to Cross Hair.**

**PS4. Wireless controller of XBOX 360 can not be used as wired controller with a USB cable connected on it. For the USB port on this controller can only be used for charging, no data lines in this port. While all other wireless controllers can be used as wired ones with a USB cable connected, such as controllers of PS4, PS3, XBOX ONE.**

# Chapter 4：Upgrade and Restoration

Please connect your Cross Hair according to the figure below, using the USB cable included in the package. **Make sure there is no controller, keyboard, mouse, joystick or anything else plugged into it.** When the Cross Hair LOGO is white, it enters into **PC MODE**, and can then be upgraded and restored on PC.



Click the icon at the bottom right corner of the screen.
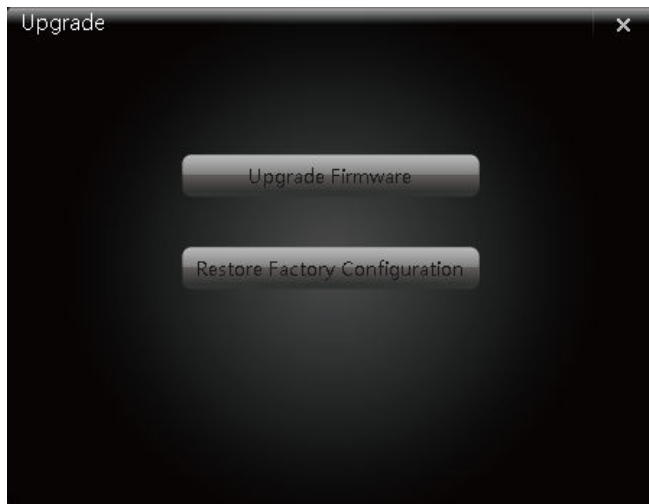
**Upgrade Firmware:** Upgrade firmware to a newer version or repair firmware errors. Your configurations will not be changed after the operation.

**Restore Factory Configuration:** Restore configuration back to factory default. All your own changes will be lost.

**During upgrading or restoring, do not shake the USB cable, unplug it, or turn off your PC. These behaviors will damage your Cross Hair.**