Retro Shooter
User Manual
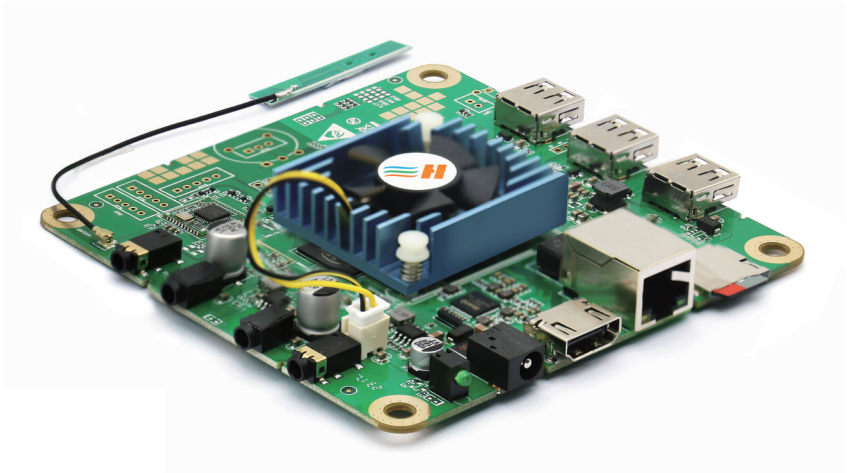
Contents

1. Mainboard Picture:

Pedal
Gun Recoil
Gun Recoil
Pedal
Power LED
DC 12V
HDMI
Ethernet Port
TF Card/SD Card

Pic 1

Pic 2

1.1 Mainboard Specification

Quad-Core ARM Cortex-A55, Neon and FPU			
Configuration	CPU	ARM Cortex-A55, Each Core Clocked At Up To 2.2Ghz	
	CPU	G52 2EE	
	RAM	2GB LPDDR4X 2133Mhz	
	Storage	8GB eMMC System Storage + 64GB Micro SD(TF) Extra	
	System	Android	
	Video Resolution	1920*1080 (1080P) / 1280*720 (720P) 1024*768 (4:3 Output)	
Interface	1*HDMI		
	1*DC 12V Input Port (2.5/5.5)		
	3*USB Input Ports (For LightGun / Game Controller / Trackball / USB Storage)		
	1*Ethernet port (For Firmware Update only)		
Language	English / Korean / Spanish		
Total Games	5146	**LightGun Games**	95
3D Games	57	**Vertical Games**	516
Support Wi-Fi	YES (For Firmware Update only)	**Button Custom Mapping**	YES
Game Settings	Adjust The Diffculty And Life of The Game		
Game List Setting	Edit Favorite List / Edit Game List / Edit Emulator		
Game Emulator	FBA / MAME / PS1 / PSP / Naomi / Atomis Wave / N64 / Dream Cast / FC / SFC / MD / Game Boy / Game Boy Advance / Game Boy Color / MSX / MSX2 / Atari 2600 / Atari 7800 / Lynx		
Game Category Search	3D Game / 3P&4P / Fighting / Action / Shooting / Sports / Puzzle / LightGun		
Game Quick Search	Game Name Search / Alphabet Order		
Turbo A Button	YES	**Cooling Mode**	FAN
Work Environment	Temperature 5°C-45°C/ Humidity 30%- -90%		
Size	180mm x 120mm x 35mm		
Net Weight	0.25Kg		

2.Retro Shooter Features:

- In the game menu, search by Alphabetical order (A~Z).

- In the game menu, search by game emulator.

- Easily switch between aspect ratios 16:9 and 4:3 in game play, for games that allow this feature. (Pic3)

- Add gamepad(game controller) config functions. 3 custom button mapping options that can be selected in the game. Next time you play this game the button mapping option will be automatically saved.

- In game play, aspect ration can be selected. 16:9 for LCD monitors and 4:3 for the classic game look. (Pic3)

- In the settings menu -> Game Config -> Edit Game List -> select and press the C button -> you can choose to close/open each emulator, close all console games and only keep the coin operation game, or hide all games keep light-gun games.

- Support 3 kinds of resolution display, two kinds of 16:9 display (1920*1080 & 1280*720), one kind of 4:3 display(1024*768). Notice: resolution settings see below -> 3.Resolution Settings.

- Add WiFi and Ethernet port for Firmware Upgrades.

- Up to 17 kinds of game emulators.

Pic 3

3. Resolution settings:

The factory default output resolution is 1280*720, Press and hold the setting button (Pic4), turn on the power and after 2 seconds, release the Setting Button in order to switch to next resolution.
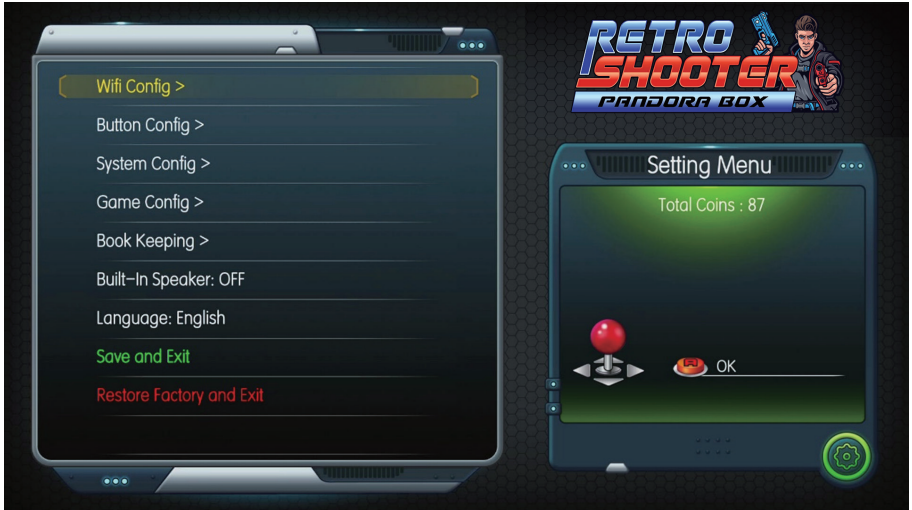
Switch order: 1280*720 -> 1024*768 -> 1920*1080.

Setting Button

Pic 4

4. Setting Menu：

In the game menu or in the game, press the setting button to enter the settings menu(Pic5)

Pic 5

4.1 Wi-Fi Config:

Choose your Wi-Fi name, enter the password to join Wi-Fi. For firmware updates only.

4.2 Button Config:
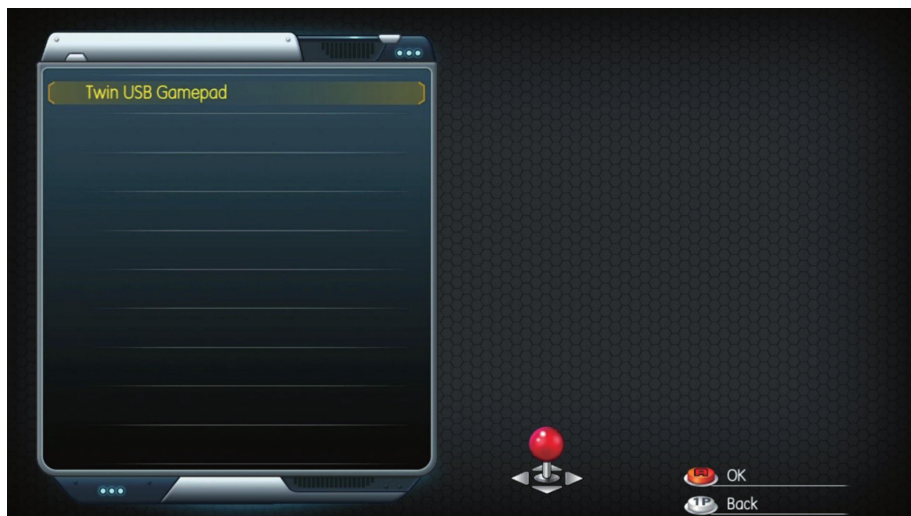
4.2.1 IO Test:

No use for Retro Shooter console.

4.2.2 Console Config:

No use for Retro Shooter console.

4.2.3 Gamepad Config:

If a gamepad (game controller) is inserted into the USB port of the console, enter the Gamepad Config, the gamepad name will be shown(Pic6).

Pic 6

Now you can custom map the buttons of the gamepad.

1) You can complete three different mappings, when you select the pause menu in the game, select the mapping for different games.(Pic7)

2) If any button on the gamepad cannot be operated, please press and hold any 3 buttons for 3 seconds to initialize the gamepad. Then please follow the prompt steps map. It can map buttons and up, down, left, right!

3) When you need to map the "Custom Mapping1", please select it, press and hold any 2 buttons for 3 seconds to start mapping it (mapping button only). The same operation can map Custom Mapping 2 and Custom Mapping 3.(Pic8)

4) Press the C button to enter the IO TEST of the gamepad.

Notice: "System default button mapping" is the basis for operating all system menus, you can still map it, but please operate with caution!

Pic 7

Pic 8

4.2.4 LightGun IO TEST:

For Retro Shooter LightGun IO test.

4.2.5 LightGun Crosshair Setting:

When the lightgun is inserted into the console for the first time, Please do a Crosshair Setting, If you have two lightguns, please operate the crosshair one by one(Pic9).
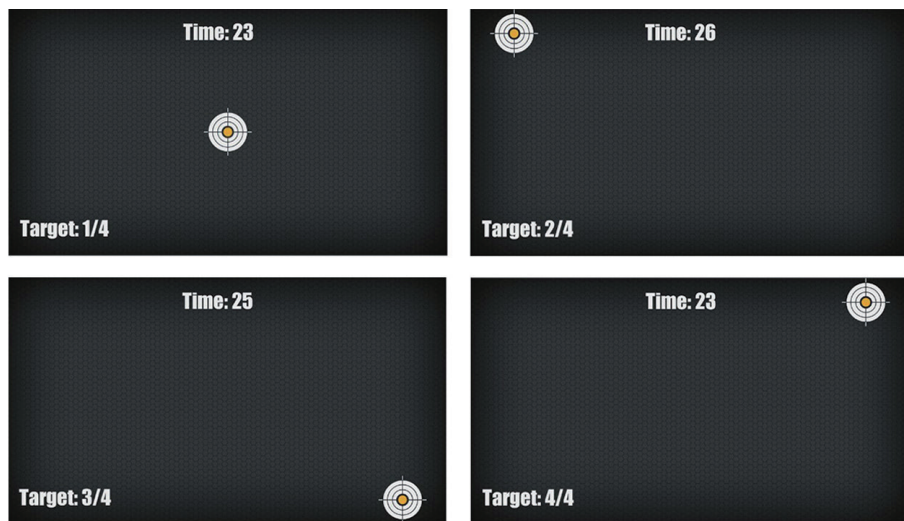

Pic 9

Press the start button of the 1P lightgun to enter the crosshair setting screen. Please use the lightgun to aim at the bullseye and pull the trigger, need to aim and shoot 4 bullseyes, center position, upper left corner, lower right corner, upper right corner(Pic10).
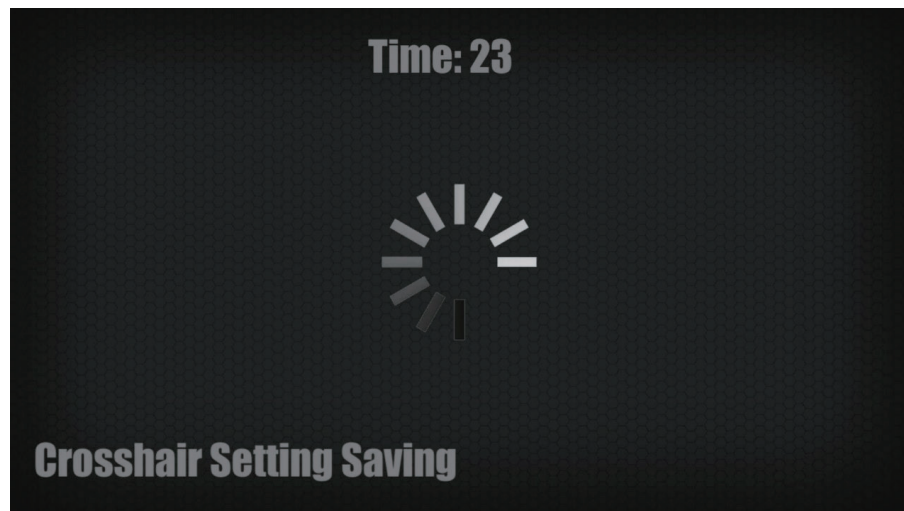
Crosshair Setting is completed, the screen will prompt "Crosshair Setting Saving" (Pic11).

Then you will see the crosshair, now you can move the Lightgun to move the crosshair.

2P Crosshair Setting is the same as 1P.

Pic 10

Pic 11

4.3 System Config:

4.3.1 Use Select Button to Pause:

[ON]: In the game press the "select" button of the gamepad to show the pause menu.
[OFF]: In the game, hold the "start" button of the gamepad for 3 seconds to show pause menu.

4.3.2 HD Quality Mode:

[ON]: Output game screen using graphic card software to calculate output of high quality.
[OFF]: Game output original screen.

4.3.3 Scan Line:

[ON]: Make the LCD display look like a CRT display.
[OFF]: Turn off the scan line.

4.3.4 Gamepad Setting:

This mode supports four gamepads to play games, support 4player game play.
If the game supports 4Players: one gamepad=1P, one gamepad=2P, one gamepad=3P and one gamepad=4P.

This mode supports three gamepads to play games, support 4player game play.
If the game supports 4Players: one gamepad=2P, one gamepad=3P and one gamepad=4P.

This mode supports two gamepads to play games, support 4player game play.
If the game supports 4Players: one gamepad=3P, one gamepad=4P.

4.4 Game Config:

4.4.1 Difficult & Life Config:

In the [difficult & life config] menu(Pic12), choose the game you want to set, press A button to set the difficulty; press B button to set the life (If the game has no difficulty and life settings, press A and B buttons will not change),Press C the setting of the selected game will be applied to all games.

Page: 023/513

FBA	0001 Jumping Pop 2
FBA	0002 Tang Tang
FBA	0003 Head Panic
FBA	0004 Multi Champ
FBA	0005 Multi Champ Deluxe
FBA	0006 Swat Police
FBA	0007 Deluxe 4
FBA	0008 Deluxe 5
FBA	0009 Fire Hawk
FBA	0010 Multi Champ World

Difficulty & Life Config

Difficulty:4
Life:3
Apply To All Games
Back

Pic 12

4.4.2 Edit Favorites List:

In the [Edit Favorites list] menu(Pic13), choose the game you want to set, press A button to favorite, ⭐ will appear in front of the game name, it will display on top of the game menu. Press C to Unlock all favorites.

Pic 13

4.4.3 Edit Games List:

In the [Edit Game List](Pic14), choose the game you want to set. Press A button to show and hide game, after hiding the game, 🚫 will appear in front of the hidden game; press the B button to show all games. If you want to power on the console and auto start a game, select the game, press the B button to hide all other games, every time after this turning on the power will auto run this game.

Press C to open and close game emulator & game console types : all games of this type will not be shown in the Game menu.(Pic15)

Pic 14

Pic 15

4.5 Book Keeping:

No use for Retro Shooter console.

4.6 Language:

Mainboard supports three languages: English/ Spanish / Korean.

4.7 Save Setting and Exit:

Press A button will prompt to confirm save and exit, press the 1P button to go back and continue to modify the settings. Select save and the screen will display "Now Saving…", now please do not turn off the power, the mainboard will auto reboot and show the game menu.

Note: Some settings are modified, it will be saved at that time, such as language modification.

4.8 Factory Setting & Exit:

Select [Yes] will restore the factory settings.

Select [No] back to settings menu.

5.Controllers：

5.1 PS-Style Black controllers:

Each set of 2 black controllers comes with 1 USB receiver. (Pic16)

To turn on the controllers, insert the 1 USB receiver to the USB port of the console. Add fresh batteries to the controllers and turn on the ON/Off switch.

If the controllers lose signal/disconnect, make sure that the batteries are fresh and that there is no other Bluetooth signals in the room.

Power Switch

Pic 16

5.2 NES controllers:

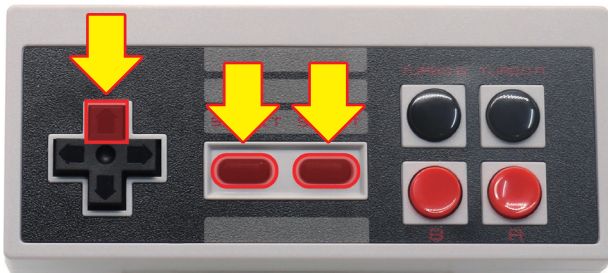Each set of NES controllers comes with 2 USB receivers (Pic17)

To turn on the controllers, insert the 2 USB receivers into the USB ports of the console. Add fresh batteries to the controllers and press the start key.

If the controller does not start, try re-matching it to its USB receiver.

1. Insert the receiver into the console, turn on the power of the mainboard.
2. Insert the batteries.
3. Press and hold these 3 keys for 3 seconds (Pic18).

Pic 17

Pic 18

5.3 Arcade Joystick:

The arcade joystick comes with 1 USB receiver. (Pic19)

To turn on the controller, connect the USB receiver to the console, add fresh batteries and turn on the red power button on the side of the controller. If the controller does not turn on, try re-matching the controller to the USB receiver:

1. Insert the USB receiver into the console, turn on the power.
2. Add the batteries to the joystick.
3. Press and hold Back+Start+H, turn on the power switch on the side of the controller and wait for 3 seconds (Pic20).

Pic 19

Power Switch

Pic 20

6.Abnormal Condition Diagnosis:

Error Description	Reason	Approach
Mainboard power led is not lit	Power adapter maybe abnormal or Console is abnormal.	Try to replace the power adapter with the same parameters or contact to the dealer.
No Signal	Please check whether the HDMI cable is connected normally signal of the LCD monitor is set correctly.	Replace the HDMI cable or LCD monitor.
No Sound	Please adjust the power amplifier or monitor sound.	Replace amplifier cable and HDMI cable.
Game Freezing	The game is not running perfectly by the emulator.	Try factory Reset or set TV to game mode
Lagging	The game is not running perfectly by the emulator.	Try factory Reset
Not able to save progress	The game does not support save progress or save error.	Try factory Reset
Game not loading	Loading error or storage device missing game files.	Try factory Reset

*(Accessories provided may vary according to the version as there may be some new changes or upgrades of it , so it may vary without prior notice)

7.Lightgun Manual

LightGun full items

LightGun–Red

PANDORA BOX 10th
Family Version

LightGun–Blue
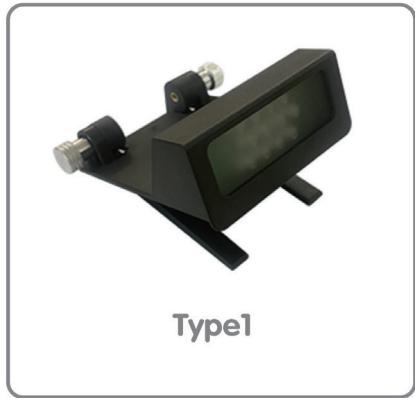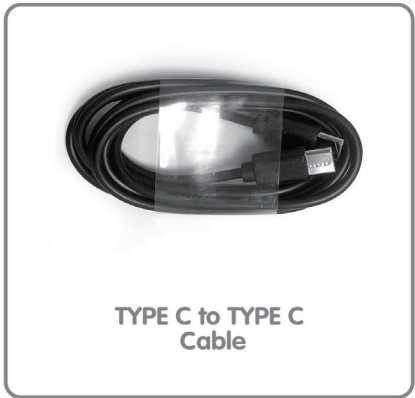

PANDORA BOX 10th
Arcade Version
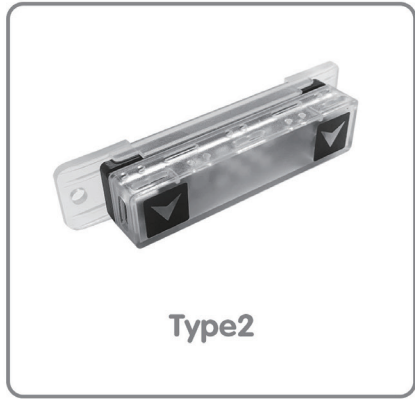

3.5mm
1.35mm
Port size: 3.5*1.35 mm

Retro Shooter
Mainboad

Pedal

Console 12V Switch Cable

Hub

Hub 12V Power Cable

HDMI Cable

12V Adapter Power 1 to 2 Cable

Type1

TYPE C to TYPE C Cable

Type2

12V/5A Power Adapter

USB A to Type C Cable

5.5mm

2.5mm

Port size: 5.5*2.5 mm

8. Lightgun with PANDORA BOX Series Button Instructions:

Press hold for 3 Seconds swtich recoil

1P · B · Trigger · Reload

1P
OFF
ON
123
Lightgun 1P: SW1,2,3=OFF

Press hold for 3 Seconds swtich recoil

2P · B · Trigger · Reload

2P
ON
123
Lightgun 2P: SW1=ON,SW2,3=OFF

⚠️ Set the SW1 before connecting the USB cable

Press hold for 3 Seconds swtich recoil

3P · B · Trigger · Reload

3P
OFF
ON
123
Lightgun 3P: SW2=ON SW1,3=OFF

Press hold for 3 Seconds swtich recoil

4P · B · Trigger · Reload
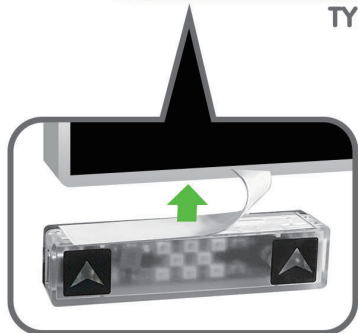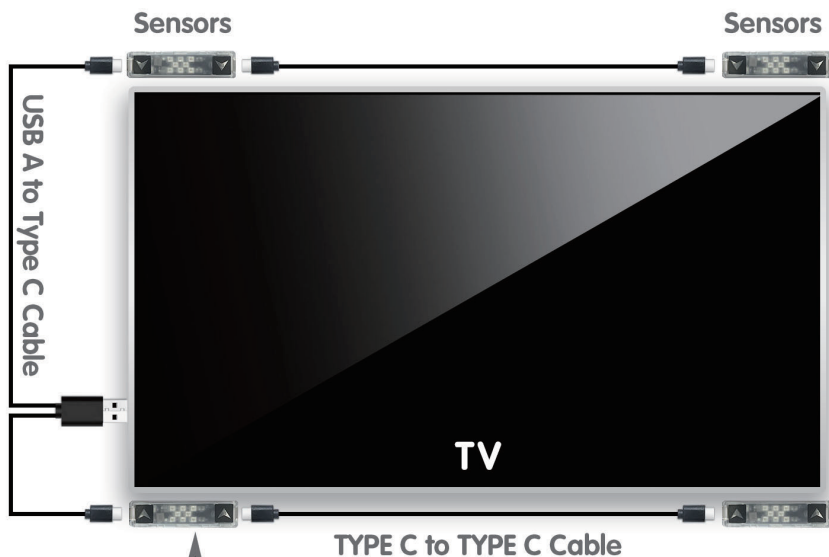
4P
ON
123
Lightgun 4P: SW1,2=ON SW3=OFF

⚠️ Set the SW1 before connecting the USB cable

8.1.Connection instructions

1 **Retro Shooter with lightgun full items connection instructions:**

Step 1

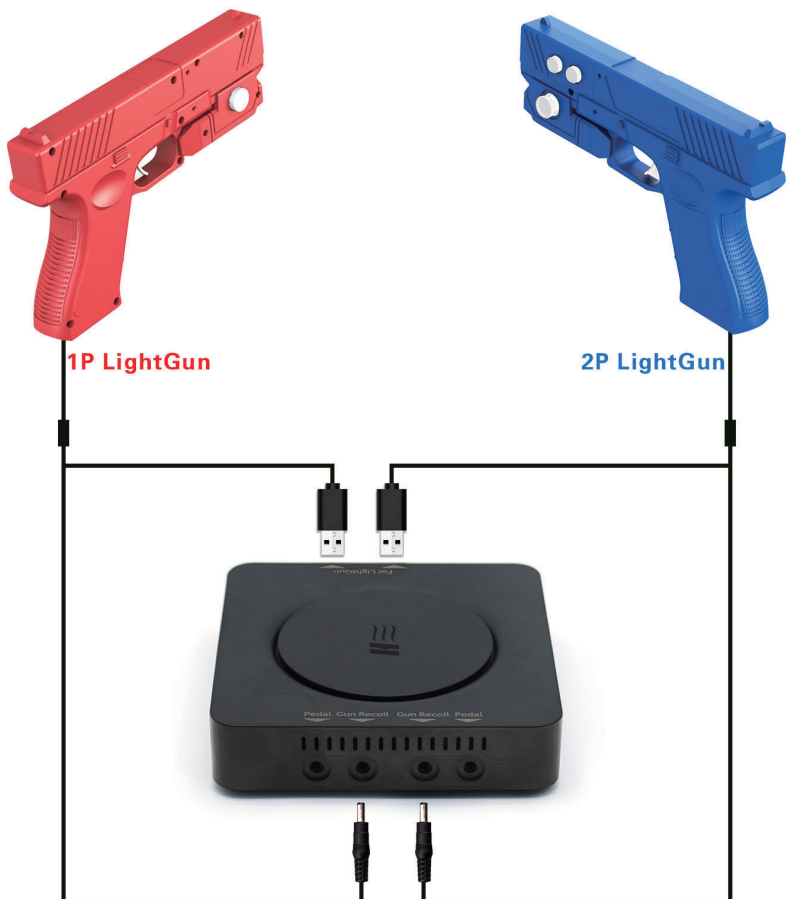Four sensors Paste at the four corners of the TV， Use USB cable to plug into the USB port of the TV to get power.

Sensors   Sensors

USB A to Type C Cable

TV

TYPE C to TYPE C Cable

!

Attention：
The sensor has two arrows, Paste the sensor and the arrow points to the TV.

Step 2 HDMI cable connect to TV
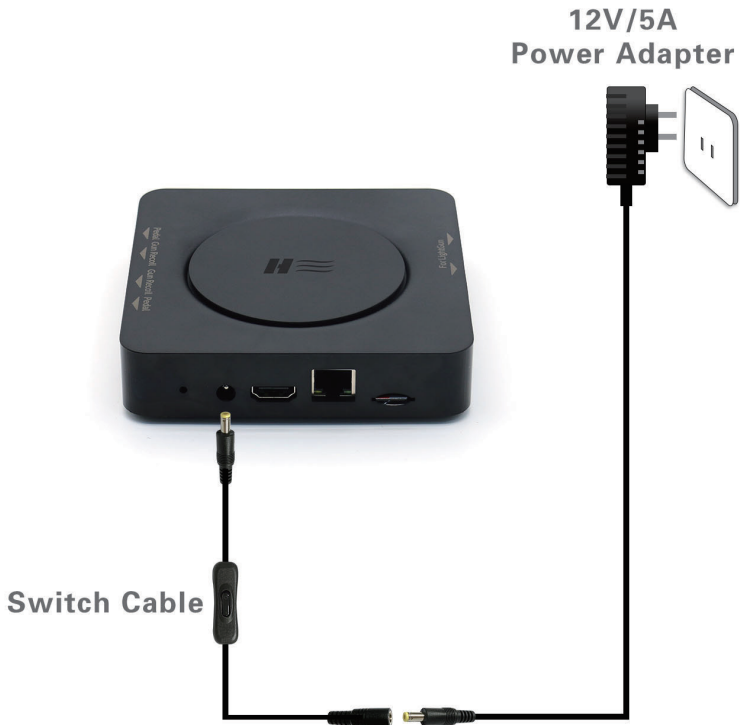

TV

Step 3

Light Gun connect to Retro Shooter Console

1P LightGun

2P LightGun

Step 4

Pedal connect to Retro Shooter Console

Step 5

Power adapter connect to Retro Shooter Console

12V/5A
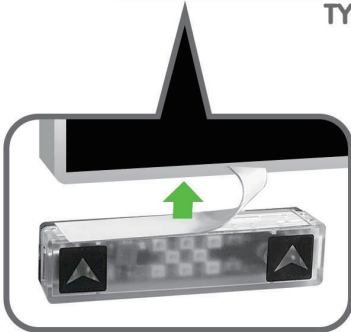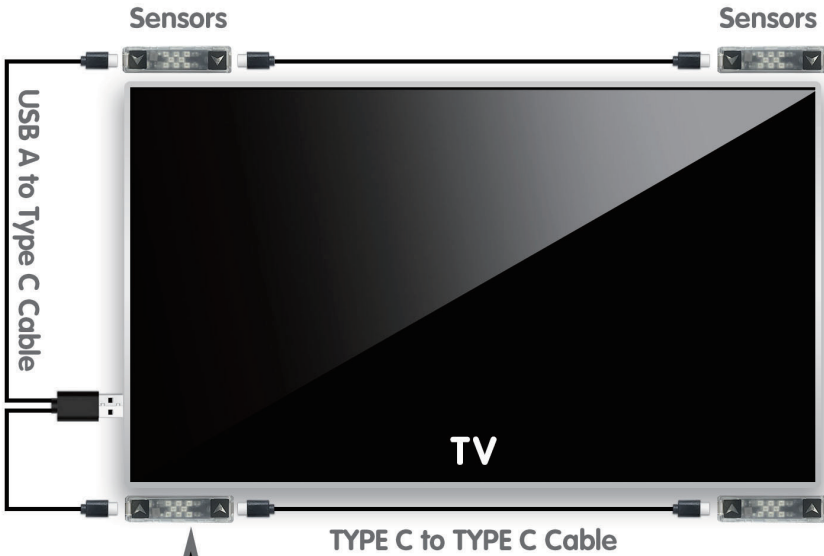Power Adapter

Switch Cable

- END -

2 PANDORA BOX 10th family version with Lightgun full items connection instructions:

Step 1
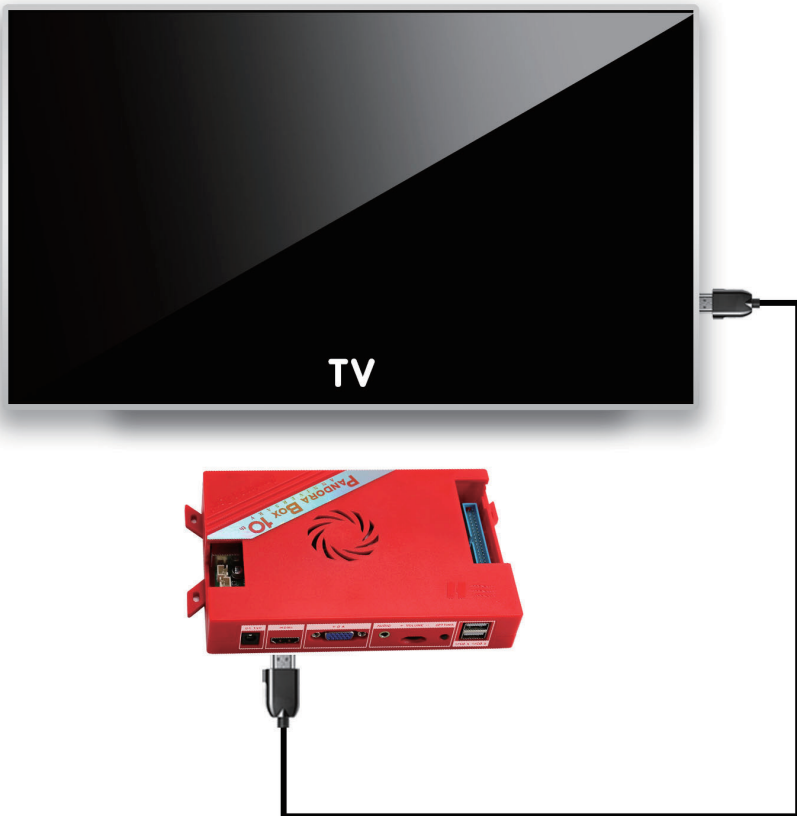
Four sensors Paste at the four corners of the TV, Use USB cable to plug into the USB port of the TV to get power.

Sensors　　　　　　　　　　　　　　　　**Sensors**

USB A to Type C Cable

TV

TYPE C to TYPE C Cable

⚠

Attention：
The sensor has two arrows,
Paste the sensor and the
arrow points to the TV.

Step 2

PB10th Family Version HDMI port output to screen

Step 3

Power adapter connect to Hub and PB10th Famliy Version

PANDORA BOX 10th
Family Version

12V/5A
Power Adapter

Hub

FIRE BASE

DC 12V   USB

DC 1 to 2 power cable

Step 4 Light Gun Connect to Hub

1P LightGun

2P LightGun

FIRE BASE

Step 5   Pedal Connect to Hub

- END -

3 PANDORA BOX 10th arcade version with lightgun full items connection instructions:

Step 1

Four sensors are placed at the four corners of the screen and fixed with screws. Use USB cable to plug into the USB port of the Hub to get power.

Sensors

TYPE C to TYPE C Cable

Sensors

⚠️

Attention：

The sensor has two arrows, Paste the sensor and the arrow points to the screen.

Hub

FIRE BASE

DC 12V   USB

USB A to Type C Cable

PB10th Arcade Version connect to JAMMA

Step 3

PB10th Arcade Version HDMI port output to screen

Step 4

Hub usb cable connect to PB10th Arcade Version usb port

PANDORA BOX 10th Arcade Version

Hub

FIRE BASE

DC 12V   USB

Step 5

Hub get power from supply power

⚠️

Because the lightgun recoil power comes from the hub, please make sure that the 12V current of the supply power is enough for 5A.

Yellow is connect to the 12V of supply power

MD-9916A-24V

24V/3A
12V/8A
GND
+5V/6A
FG ⏚
AC 1
AC 2

Black connect to GND

Hub

FIRE BASE

DC 12V   USB

Step 6 Light Gun Connect to Hub
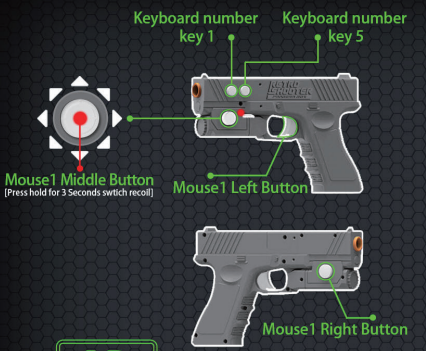
1P LightGun

2P LightGun

FIRE BASE

Step 7 Pedal Connect to Hub

- END -

4 PC with lightgun full items connection instructions:

Keyboard number key 1 Keyboard number key 5

Mouse1 Middle Button
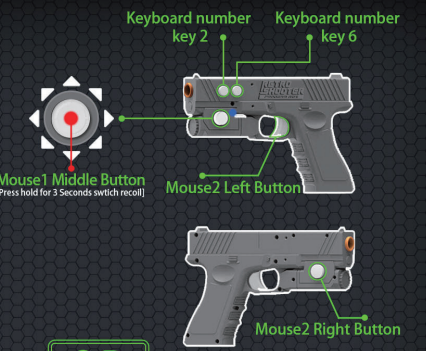[Press hold for 3 Seconds swtich recoil]

Mouse1 Left Button

Mouse1 Right Button

1P
OFF
ON
123

Lightgun 1P: SW1,2,3=OFF

Keyboard number key 2 Keyboard number key 6

Mouse1 Middle Button
[Press hold for 3 Seconds swtich recoil]

Mouse2 Left Button
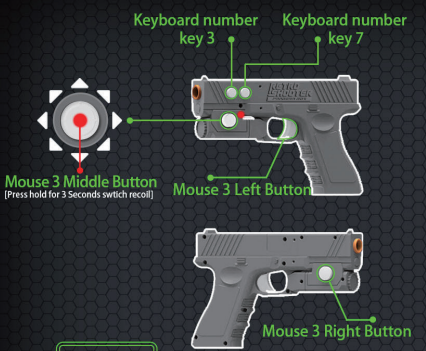
Mouse2 Right Button

2 P
ON
123

Lightgun 2P: SW1=ON,SW2,3=OFF

⚠ **Set the SW1 before connecting the USB cable**

Keyboard number key 3 Keyboard number key 7

Mouse 3 Middle Button
[Press hold for 3 Seconds swtich recoil]
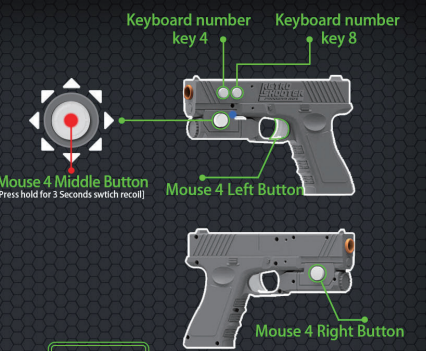
Mouse 3 Left Button

Mouse 3 Right Button

3 P
OFF
ON
123

Lightgun 3P: SW2=ON SW1,3=OFF

Keyboard number key 4 Keyboard number key 8

Mouse 4 Middle Button
[Press hold for 3 Seconds swtich recoil]
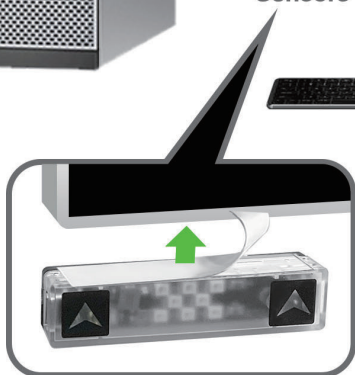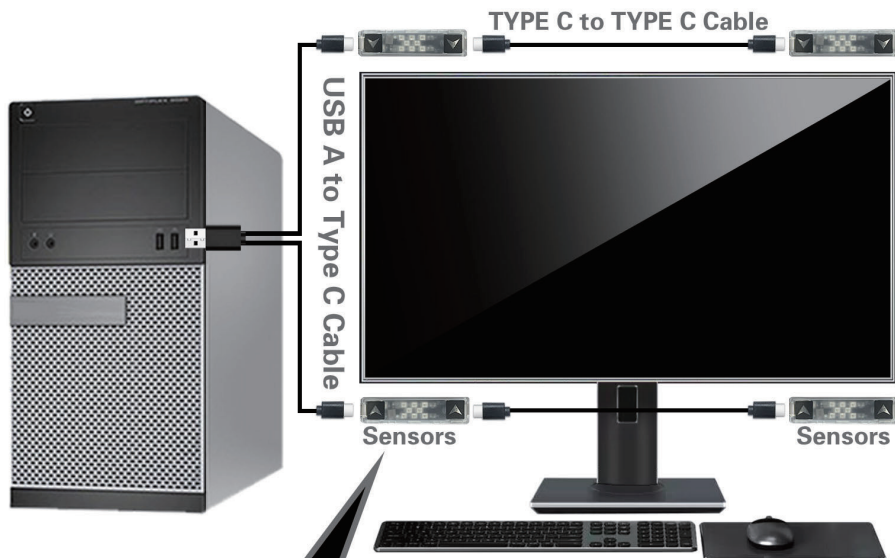
Mouse 4 Left Button

Mouse 4 Right Button

4P
ON
123

Lightgun 4P: SW1,2=ON SW3=OFF

⚠ **Set the SW1 before connecting the USB cable**

Step 1
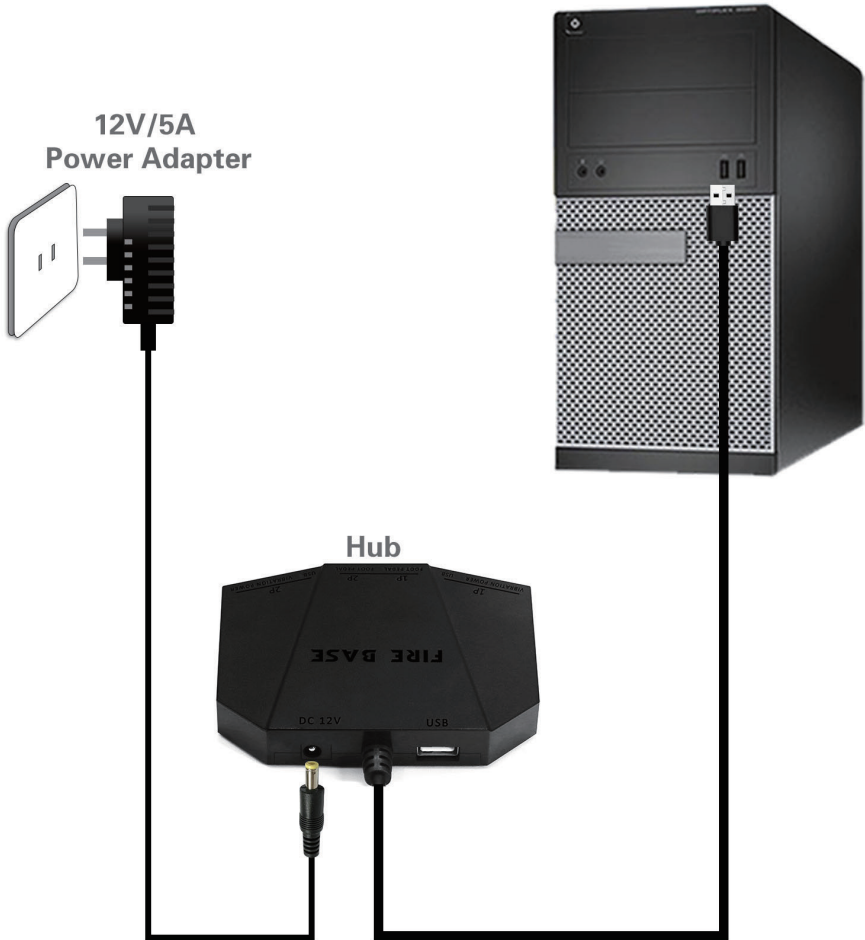
The four sensors are paste at the four corners of the screen.
Use USB cable to plug into the USB port of the PC to get power.

TYPE C to TYPE C Cable

USB A to Type C Cable

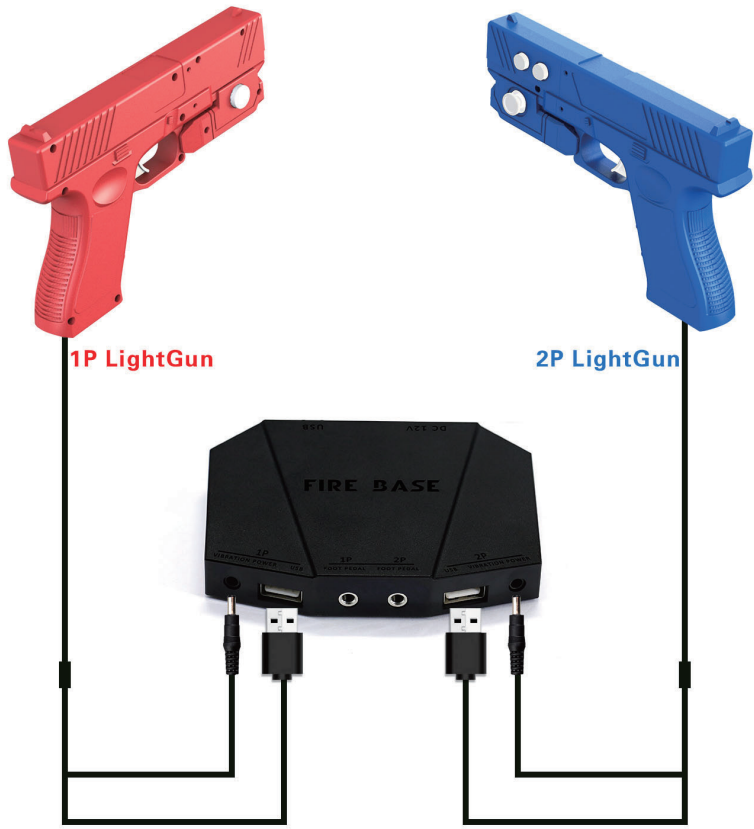Sensors   Sensors

⚠

Attention：
The sensor has two arrows,
Paste the sensor and the
arrow points to the screen.

Step 2

Power adapter connect to Hub and Hub usb connect to PC

12V/5A
Power Adapter

Hub

FIRE BASE

DC 12V   USB

Step 3 Light Gun Connect to Hub

1P LightGun   2P LightGun

FIRE BASE

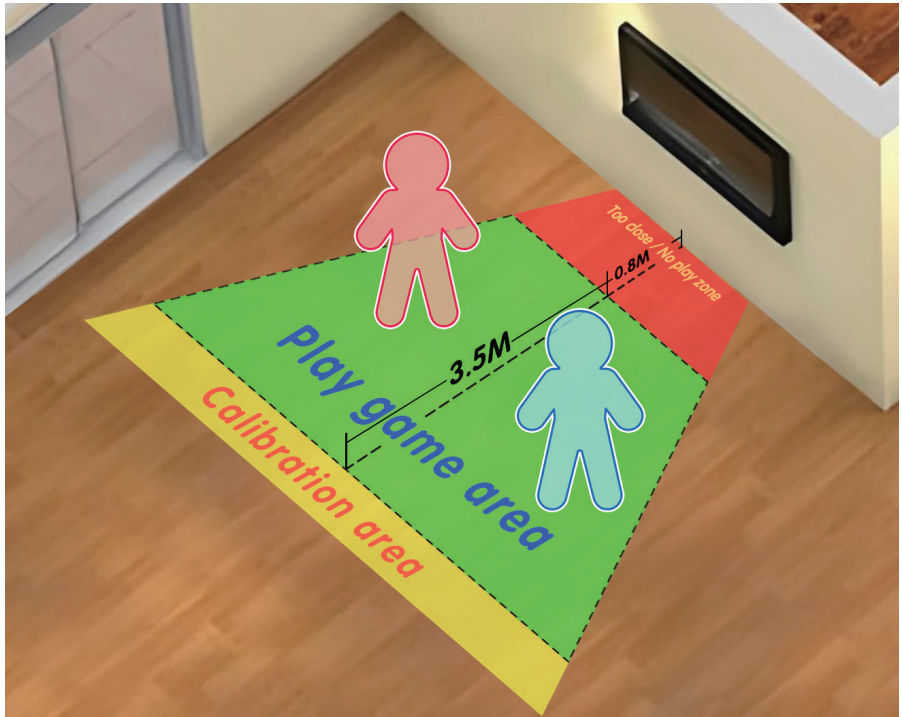**Step 4** **Pedal Connect to Hub**

- END -

8.2 Attention:

1) Lightgun is inserted into the PC USB port, it will be recognized as add a mouse and keyboard, no need to setup any software drivers.

2) It can be recognized in any emulator, in emulator, use lightgun's mouse to map lightgun's X and Y, also use lightgun's keyboard number 1 map game start, keyboard number 5 map as game insert coin...

3) Lightgun recoil uses 12V power, 1pcs Lightgun requires about 1A current, 2pcs use total 2A, lightgun with mainboard uses the same power adapter together, it is recommended to use12V/5A power adapter.
Retro Shooter and family version usually use the same 12V power adapter with lightgun, so it must be a 12V/5A power adapter. The arcade uses a usb hub to provide recoil power. The 12V input of the hub can be connected to the 12V power of the supply power inside the cabinet.

4)   When you have connected all the items, please enter the setting menu and calibrate the crosshair settings. (Press console setting button –> button config –> lightgun crosshair setting)
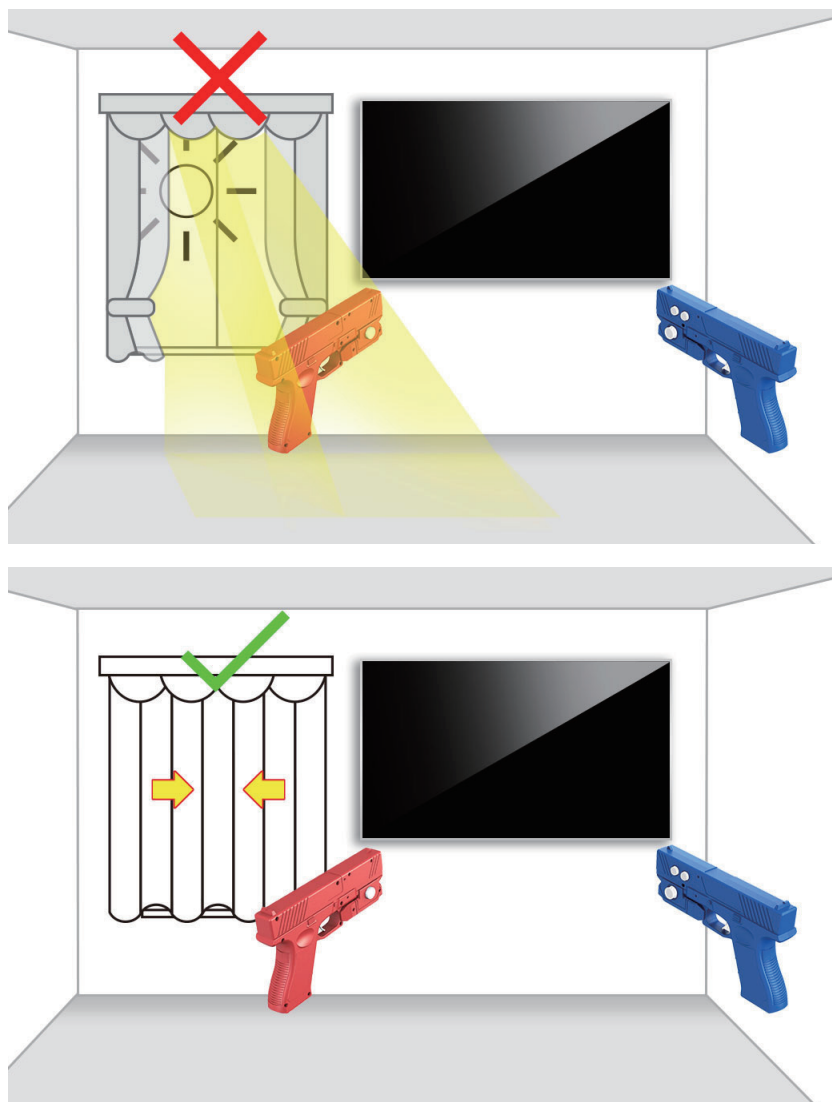
1 If the screen is larger than 27 inches, it is recommended that you operate the setting crosshair and stand at the maximum distance from the screen (the farthest distance allowed by the lightgun cable is about 3.5 meters-10ft). For example: you stand at the 3.5-meter setting crosshair position. After setting the crosshair, use lightgun to play the game within 1 meter (3ft) to 3.5 meters (10ft) (pic21)

Pic 21

2 If the screen is smaller than 27 inches, it is recommended that you operate the setting crosshair and stand at a maximum distance of 2 meters (6ft) from the screen. After setting the crosshair, use lightgun to play the game within 0.8 meters (2.5ft) to 2 meters (6ft)

5）When you use the lightgun, if the monitor is against a window and the sun is shining, please close the curtains, the light outside the window will interfere with the lightgun camera and affect the shooting accuracy!（Pic22）

Pic 22

6) The big button on the right side of the Lightgun is the reload function, and the pedal is also the reload function. When used in Time Crisis, the reload button and the pedal are hiding functions.

7) Lightgun default settings are single fire recoil, pull the trigger once and there will be a recoil. To enable rapid/automatic recoil, press and hold the 4 way joystick middle button for 3 seconds, you can hold the trigger and have the recoil all the time.

8) To turn off recoil, press and hold the trigger before pluging in the lightgun USB cable to the port, if the lightgun is already plugged in press and hold trigger before powering on the console. To enable the recoil again, unplug the lightgun and plug it back in or power off and on the console without holding the trigger.

https://youtu.be/mIVBkzyX1Ic

8.3 Retro shooter console pause menu

When in the game, you can hold the lightgun start button or game controller start button for 3 seconds and you will see the pause menu (Pic23)

Pic 23

1.Favorite game：

ON –>Enable favorite mode for this game. It will be displayed in the Top list of the game menu. You can quickly find it in the game menu.

OFF–> Disable favorites mode for this game.

2.Load process:

You can select it to load the previous process. If you have never saved it, it will be gray and can't operate.

3.Save process:

when you are playing a game and want to save your state, you can select "Save process" and then turn off the console. When you come back, you can "load process" to continue playing this game.

4.Console config/Gamepad config/Lightgun crosshair setting

• **Console config:**
  Just for PANDORA BOX 10th Arcade and Family version.

• **Gamepad config:**
  The operation is the same as Contents "4.2.3 Gamepad Config".

• **Lightgun Crosshair setting:**
  Quickly Crosshair setting in the game without entering the console setting menu . The operation is the same as Contents "4.2.5 Light-Gun Crosshair Setting".

5.Crosshair:
ON –> turn on Crosshair in the game.
OFF–> turn off Crosshair in the game.

6.Game screen scale:
The factory default setting of all games is 16:9 display. If you want to change it to 4:3 display, select it and press the A button, it will change to 4:3 display. This change will be saved when you load this game again and it will keep 4:3 displayed.

PANDORA BOX

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