

309

~~~~~ GAMING EDITION ~~~~~

## User Manual



# Product Video Information



309 Gaming Edition Product Video

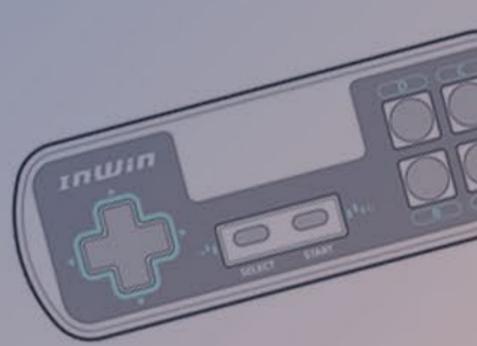


309 Gaming Edition Installation Video



GLOW X Software Instruction Guide Video

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# 309

~~~~~ GAMING EDITION ~~~~~

Product Story

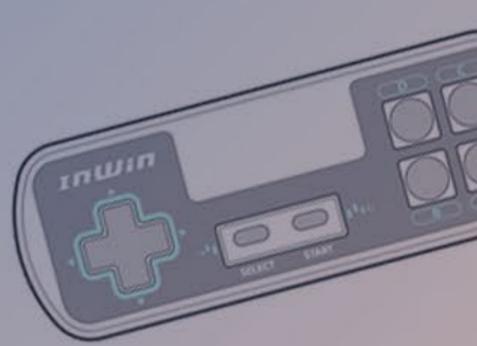
GAME TIME!

We heard the community's desire to play games using the customizable 144-LED front panel of the InWin 309. We too love video games at InWin and decided to offer three built-in classically themed games along with an exclusive gamepad to transform the panel into a gaming system on its own! Hence, the 309 Gaming Edition is born!

The upgraded GLOW X software supports a new creation mode, providing more fun and interactive lighting, diversified tools, and a color calibration function. It also offers up to 40 frames that gives control to the users to design whatever they want on the front panel display, or even a simple animation!



Specifications



309 Gaming Edition Chassis

| | |
|--|--|
| Model | 309 Gaming Edition |
| Model Number | IW-CS-309GE-BLK |
| Colors | Black |
| Case Type | Mid Tower |
| Materials | SECC, Tempered Glass, ABS |
| M/B Compatibility | 12" x 13" EATX, ATX, Micro-ATX, Mini-ITX |
| Expansion Slots | 7 x PCI-E |
| Maximum Compatibility | VGA Card Length: 350 mm
CPU Heatsink Height: 160 mm |
| I/O Ports | 1 x USB 3.2 Gen 2x2 Type-C
2 x USB 3.0
HD Audio
LED & Fan Mode Button
LED & Fan Control Buttons |
| Internal Drive Bays | 2 x 3.5" / 2.5"
2 x 2.5" |
| Thermal Solution Compatibility | Air Cooling Fans:
Top: 3 x 120 mm
Rear: 1 x 120 mm
Bottom: 3 x 120 mm
(4 InWin Saturn ASN120 Fans Included)

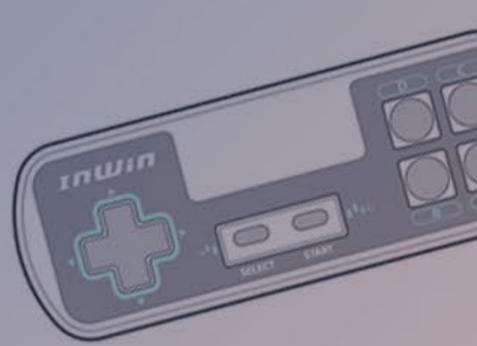
Water Cooling Radiator:
Top: 1 x 360 mm
Rear: 1 x 120 mm
Bottom: 1 x 360 mm (Slim) |
| <small>* Number of fans pre-installed may vary based on different regions.</small> | |
| Power Supply Compatibility | PSII: ATX12V - Length up to 200 mm |
| Product Dimensions (L x W x H) | 553 x 238 x 500 mm
21.8 x 9.4 x 19.7" |
| Package Dimensions (L x W x H) | 706 x 618 x 335 mm
27.8 x 24.4 x 13.2" |
| Net Weight | 13.7 kg / 30.1 lbs |
| Gross Weight | 16.6 kg / 36.6 lbs |

* InWin's products comply with RoHS regulation

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Specifications

InWin Saturn ASN120 Fans



| | |
|-------------------------------|------------------------------------|
| Model | Saturn ASN120 |
| Fan Size | 120 x 120 x 25 mm |
| Materials | PC, PBT |
| Rated Voltage | DC 12V |
| Rated Power | 4.32W |
| Rated Current | 0.36A |
| ADD RGB Rated Voltage | DC 5V |
| ADD RGB Rated Power | 1.5W |
| ADD RGB Rated Current | 0.30A |
| Speed Mode | PWM 500 - 1800 +/- 10% RPM |
| Air Flow | 77.17 CFM |
| Air Pressure | 3.12 mm / H2O |
| LED | Addressable RGB |
| Connector (Fan to Fan) | 6-Pin Modular |
| Connector to M/B | 4-Pin (PWM, 12V), 3-Pin (ARGB, 5V) |
| Noise Level | 35 dB(A) (Max.) |
| Bearing Type | Long Lifespan Sleeve Bearing |

* InWin's products comply with RoHS regulation.

* Specifications may vary based on different regions.



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Package Contents

309 Gaming Edition Chassis



Gamepad



QR Code Card



Accessories Bag



a. Motherboard Stand-offs



× 11

b. Motherboard Stand-off Socket



× 1

c. Hexagon Head Screws



× 18

d. Cable Ties

× 10

e. 2.5" HDD Screws



× 18

f. 3.5" HDD Screws



× 10

g. Water-Cooling System Washers



× 8

h. Graphics Card Holders



× 1

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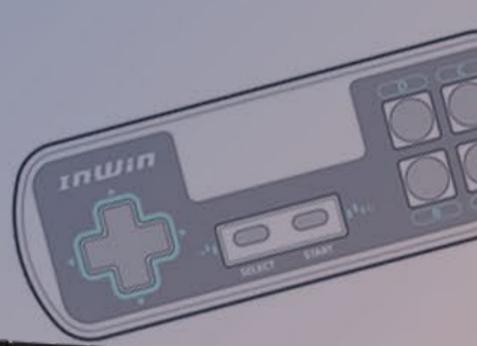
Case Structure



- 1** Power Button
- 2** HDD LED Indicator
- 3** USB 3.0 Ports
- 4** USB 3.2 Gen 2x2 Type-C Port
- 5** Audio Ports
(Earphone and Microphone)
- 6** Reset Button
- 7** LED & Fan Mode Button
- 8** LED & Fan Control Buttons

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Case Structure



| | |
|----|--|
| 9 | Power Supply Mounting Area |
| 10 | 3.5" / 2.5" Drive Bay |
| 11 | 2.5" Drive Bay |
| 12 | Top Fan / Radiator Mounting Area
(3 InWin Saturn ASN120 Fans Pre-Installed) |
| 13 | Rear Fan / Radiator Mounting Area
(1 InWin Saturn ASN120 Fan Pre-Installed) |
| 14 | Bottom Fan / Radiator Mounting Area |
| 15 | Motherboard Mounting Area |
| 16 | PCI-E Expansion Slots |
| 17 | Extra PCI-E Supporting Mounting Hole |
| 18 | Shock-Proof Stands |
| 19 | Fan Dust Filter |

Installation Guide



- * Please follow the related chapters to assemble.
- * Please use original provided accessories to avoid damage to the product.

1 Opening the Chassis



2 Clock Synchronization

Please pull the plastic mylar tab to activate the clock synchronization, then run the **GLOW X** software to provide accurate time on the front panel.



3 Power Supply Installation



Parts Required: Hexagon Head Screws



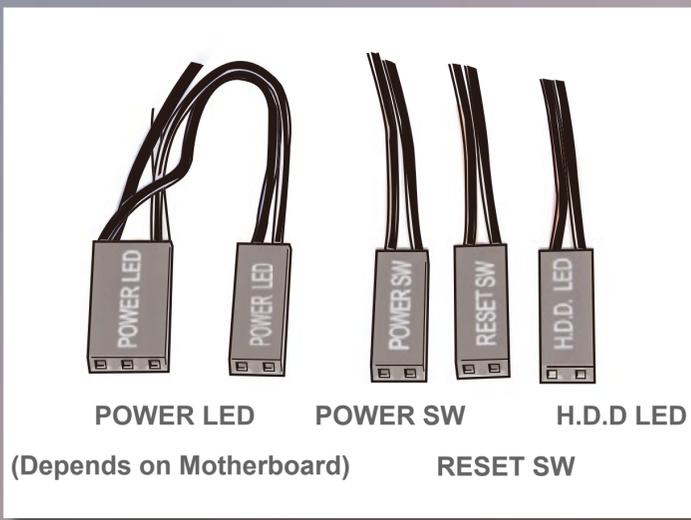
4 Motherboard Installation



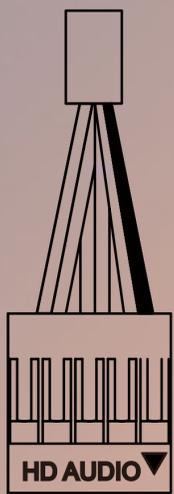
Parts Required:
Motherboard Stand-Offs, Motherboard Stand-Off Socket
Hexagon Head Screws



5 I/O Wires Installation

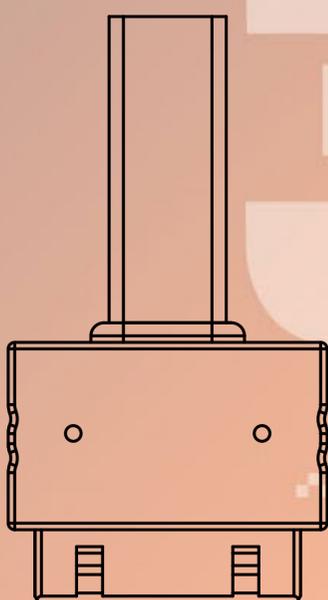


HD Audio Header



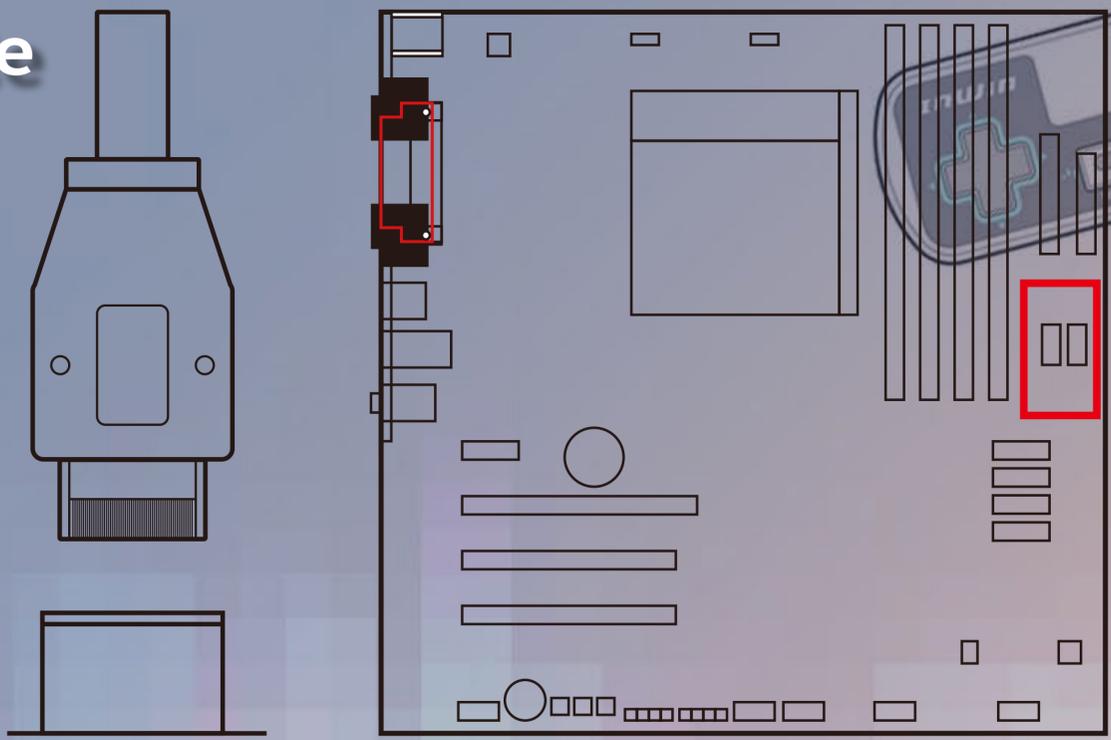
| | | | | | |
|------------|--------|----|---|--------|-----------|
| PORT2_L | BLUE | 10 | 9 | BROWN | SENSE2_R |
| SENSE_SEND | PURPLE | 8 | 7 | | KEY |
| PORT2_R | YELLOW | 6 | 5 | WHITE | SNAS1_R |
| PORT1_R | RED | 4 | 3 | ORANGE | PRESENCE# |
| PORT1_L | GREEN | 2 | 1 | BLACK | GND |

USB3.0 Header



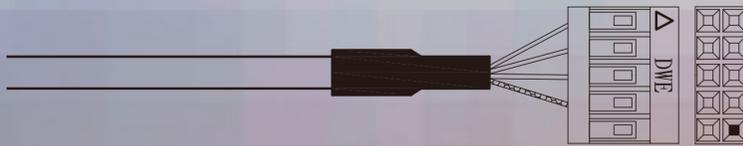
| | | | | |
|--------|---------------|----|--------|---------------|
| PIN#1 | Vbus | 1 | 19 | Vbus |
| | IntA_P1_SSRX- | 2 | 18 | IntA_P2_SSRX- |
| | IntA_P2_SSRX+ | 3 | 17 | IntA_P2_SSRX+ |
| | GND | 4 | 16 | GND |
| | IntA_P1_SSTX- | 5 | 15 | IntA_P2_SSTX- |
| | IntA_P1_SSTX+ | 6 | 14 | IntA_P2_SSTX+ |
| | GND | 7 | 13 | GND |
| | IntA_P1_D- | 8 | 12 | IntA_P2_D- |
| | IntA_P1_D+ | 9 | 11 | IntA_P2_D+ |
| | ID USBOC- | 10 | | |
| PIN#10 | | | PIN#11 | |

Type-C Cable



USB Cable

Please connect the USB cable with the USB 2.0 port on the motherboard to activate the GLOW X software.

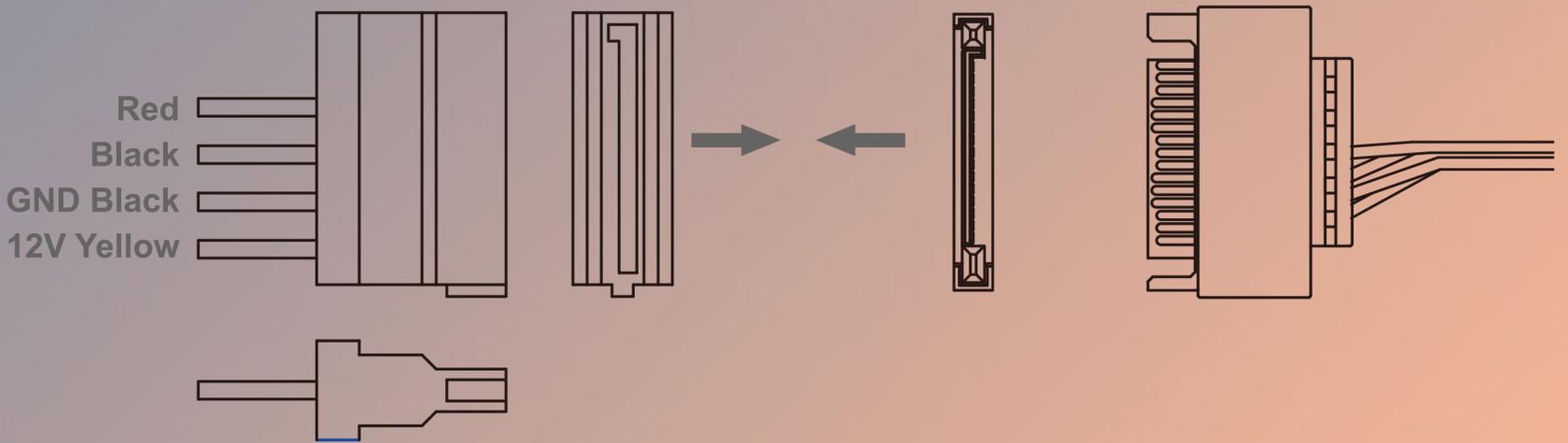


LED Power

Ensure the beveled edge of the PSU connector is properly aligned with the beveled edge of the LED light connector.

PSU Connector

LED Light Connector

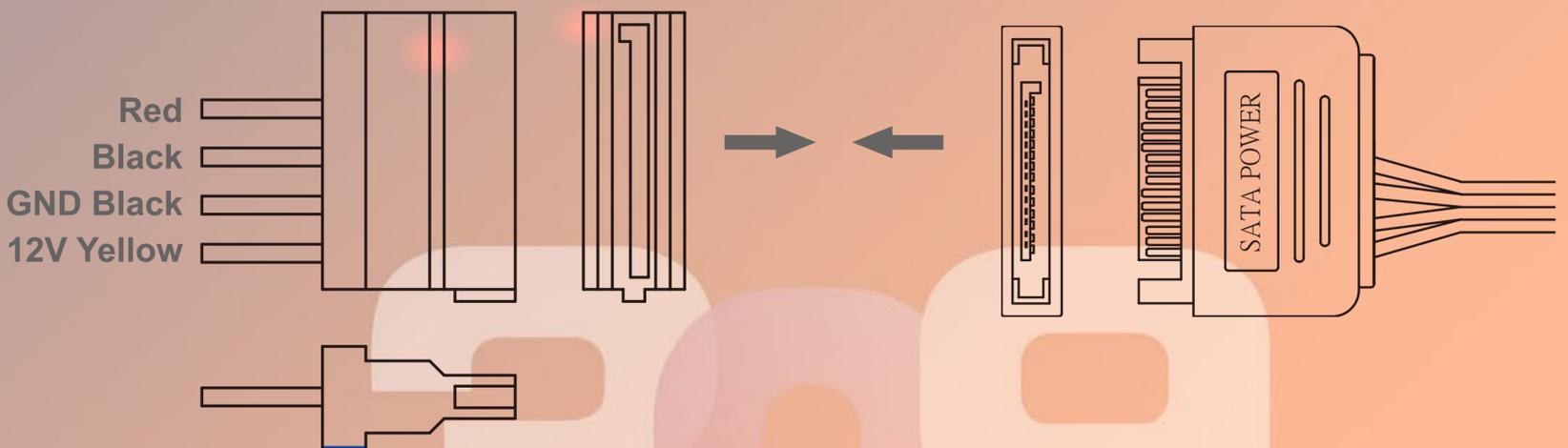


Controller Power

Make sure the PSU connector is properly aligned with the controller connector from edge to edge.

PSU Connector

Controller Connector



Addressable RGB Cable (Optional Installation Steps)

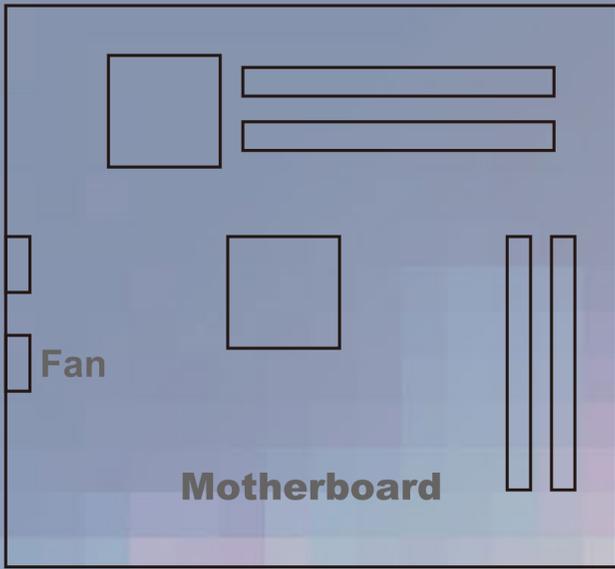
* Note: The lighting effects will be controlled by the motherboard when the connector is installed properly. If you would like to control the ARGB effect via InWin's exclusive GLOW X software, please DO NOT insert the ARGB 3-pin cable on your motherboard.

Addressable RGB Connector

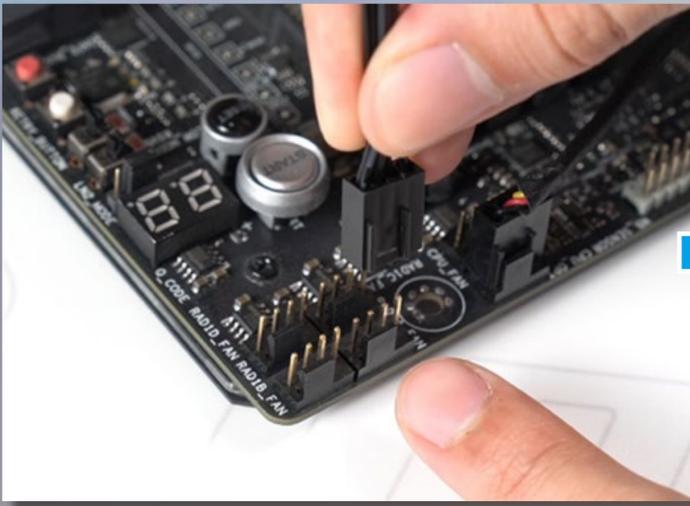


4-Pin Fan Connector (Optional Installation Steps)

* Note: The fans will be controlled by the motherboard when the connector is installed properly. If you would like to control the Saturn ASN120 fans via InWin's exclusive GLOW X software, please DO NOT install the fan connector with your motherboard.



4-Pin Fan Connector



6 Fan / Liquid Cooling Radiator Installation



Parts Required:
Water-cooling System Washers

7 Expansion Card Installation



Parts Required:
Hexagon Head Screws
Graphics Card Holders

8 2.5" Drive Bays Installation



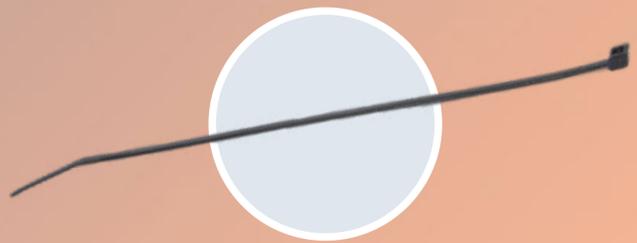
Parts Required: 2.5" HDD Screws

9 3.5" Drive Bays Installation



Parts Required: 3.5" HDD Screws

10 Completing Installation



Parts Required:
Cable Ties

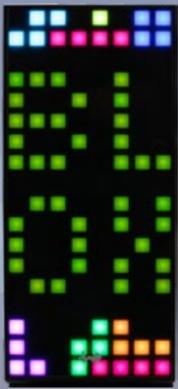
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Built-In Games Instructions

We reinterpreted three classic games on the 309 Gaming Edition and it transforms the front panel into a gaming platform. Now you can immerse yourself in the gaming world anytime!



BLOX



MAGI JUMP



309 RACING



BLOX

How to Play: Move/rotate the BLOX to fill an entire horizontal line to clear the row.

Earn Points: Clear a horizontal row.

Extra Points: Clear more than one horizontal row at one time.

How to Calculate the Points

| Clear Rows | Points | Extra Points | Total Points |
|---------------|--------|--------------|--------------|
| One Row | 1 | 0 | 1 |
| Two Rows | 2 | 1 | 3 |
| Three Rows | 3 | 2 | 5 |
| ... And so on | | | |

MAGI JUMP

How to Play: Help Chick MAGI enhance his power by collecting the correct fruits and escape from the maze!

Increase Health / Points: Collect golden fruits. There are three colors of Chick MAGI that reflect the status of the chick. Pink (weakened), yellow (medium health) and orange (strong).

Decrease Health: Touching purple poisoned fruits or the crazy red chicken!

Defeat the Crazy Chicken: Stomp on the crazy red chicken to defeat it and gain points.

Level up: Find the exit (a castle) and press ▲ to go to the next level.

309 RACING

How to Play: Start your engines and race to the finish line in time!

Dodge: Oncoming cars or the oil-stained roads

Tips: It's a race after all! The sooner you get to the finish line, the higher points you will receive.

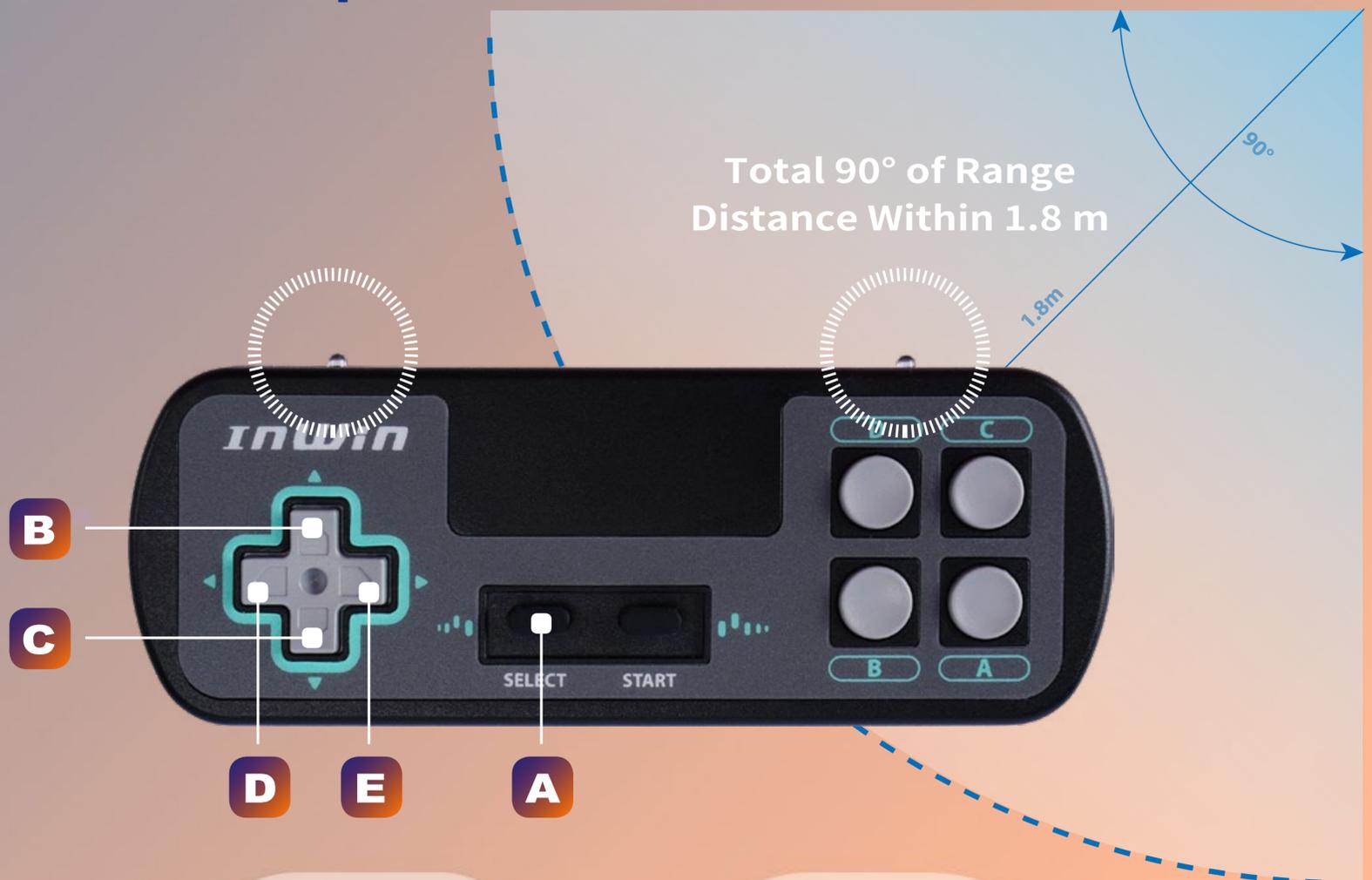
Game Controls

| Buttons | SELECT | START | ← + | → + | ↑ + | ↓ + | A D | B C |
|------------|---------------------|--------------------|------|-------|---------------------------|----------------|--------------------|----------------|
| Games | | | | | | | | |
| BLOX | | | | | Counterclockwise Rotation | Speedy Descent | Clockwise Rotation | Speedy Descent |
| MAGI JUMP | Control Mode button | Game Start / Pause | Left | Right | Enter to Next Level | X | Jump | X |
| 309 RACING | | | | | X | X | Speed Up | Slow Down |

Gamepad Instructions

The LEDs and fans can be controlled by the exclusive gamepad, pressing the control buttons on the I/O panel or controlled by GLOW X software.

Buttons Descriptions



| | |
|----------|---------------------|
| A | Control Mode button |
| B | Previous |
| C | Next |
| D | Slow Down * |
| E | Speed Up * |

* The speed control of D and E buttons only available for Bounce, Twinkling and Time Tunnel effects.

* Note: Please make sure to keep the infrared projector aligns to the front panel of 309 Gaming Edition. The sensor may not work if the infrared projector has been blocked or out of range.

LED & Fan Control Buttons Instructions



Control Buttons Descriptions



Control Mode button

+

-

Control Buttons Instructions

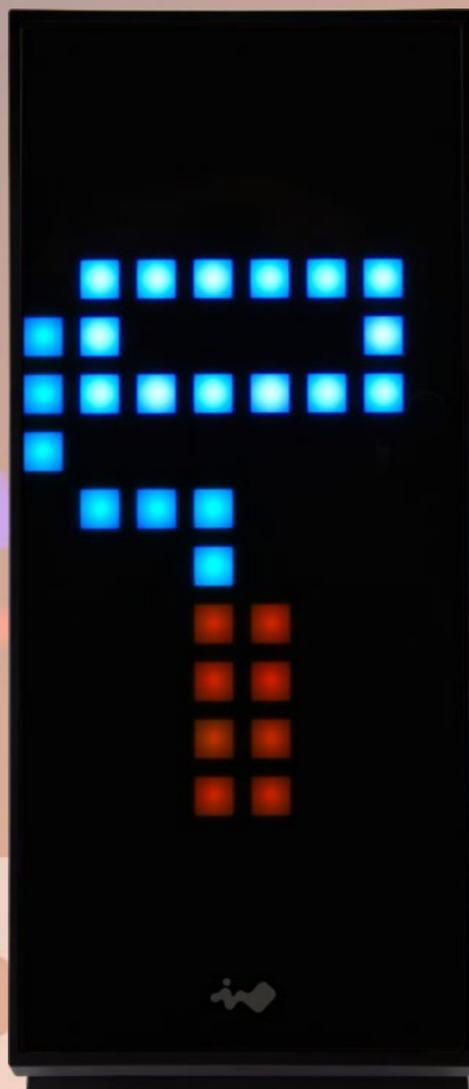
Please follow the button sequence below to adjust LED brightness, games, lighting effects and fan speed.

LED Brightness



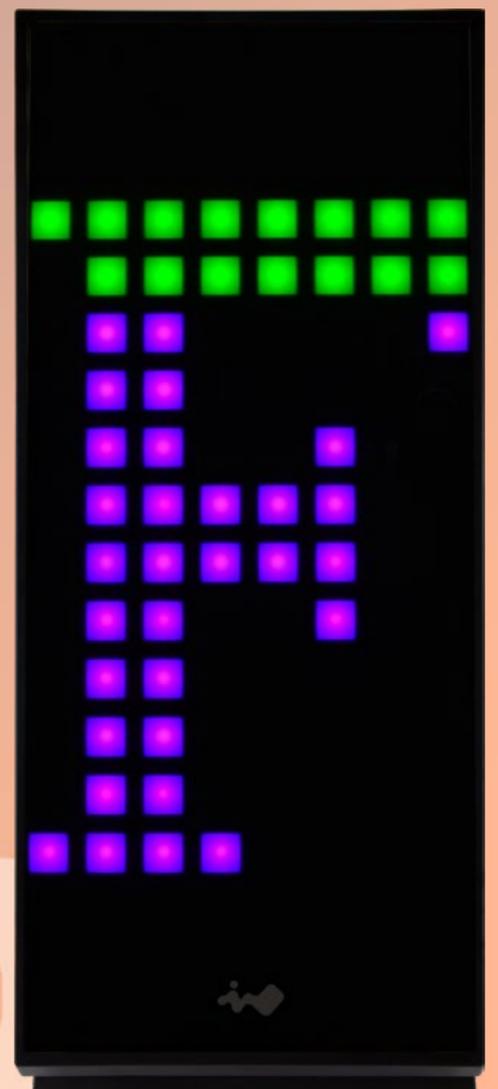
Button Presses:
0 (Default)

Games / LED Lighting Effects



Button Presses:
1

Fan Speed



Button Presses:
2

* Note: The control mode automatically switches to the LED Brightness Mode if you press the Control Mode button three times.

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GLOW X Software Instructions



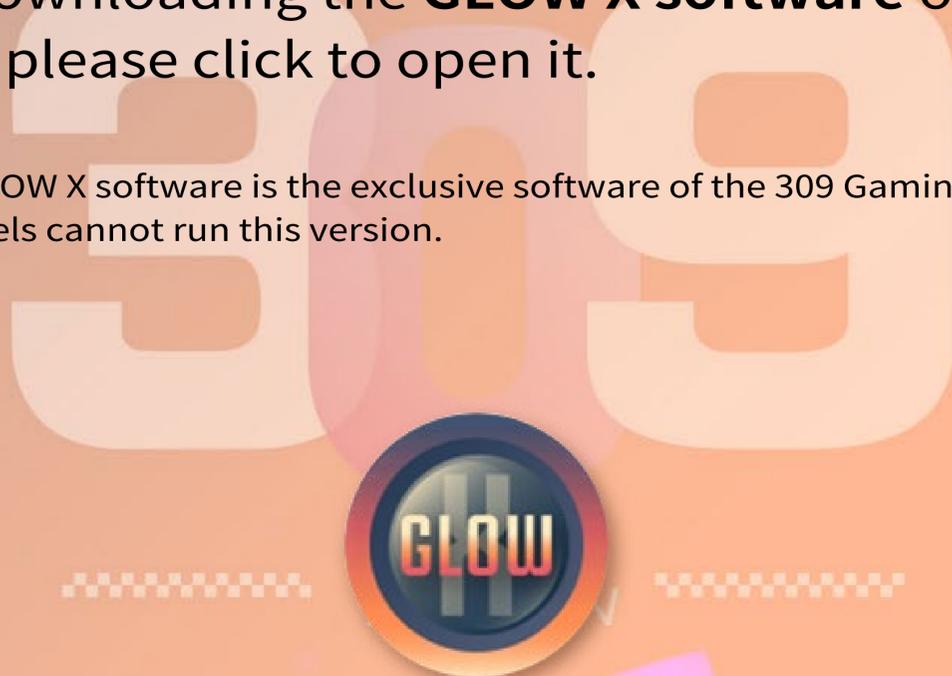
The InWin exclusive GLOW X software encourages users to create their own unique lighting effect. Choose your own style! The simple and clean intuitive interface is easy to operate. GLOW X possesses 8 different lighting modes and a Creation Mode! Creation Mode grants users access to design their own front panel to match their preferred theme.

The upgraded GLOW X software offers up to 40 frames that gives control to the users to design not only an image on the front panel display, but also a simple animation! The only limitation is your own imagination!

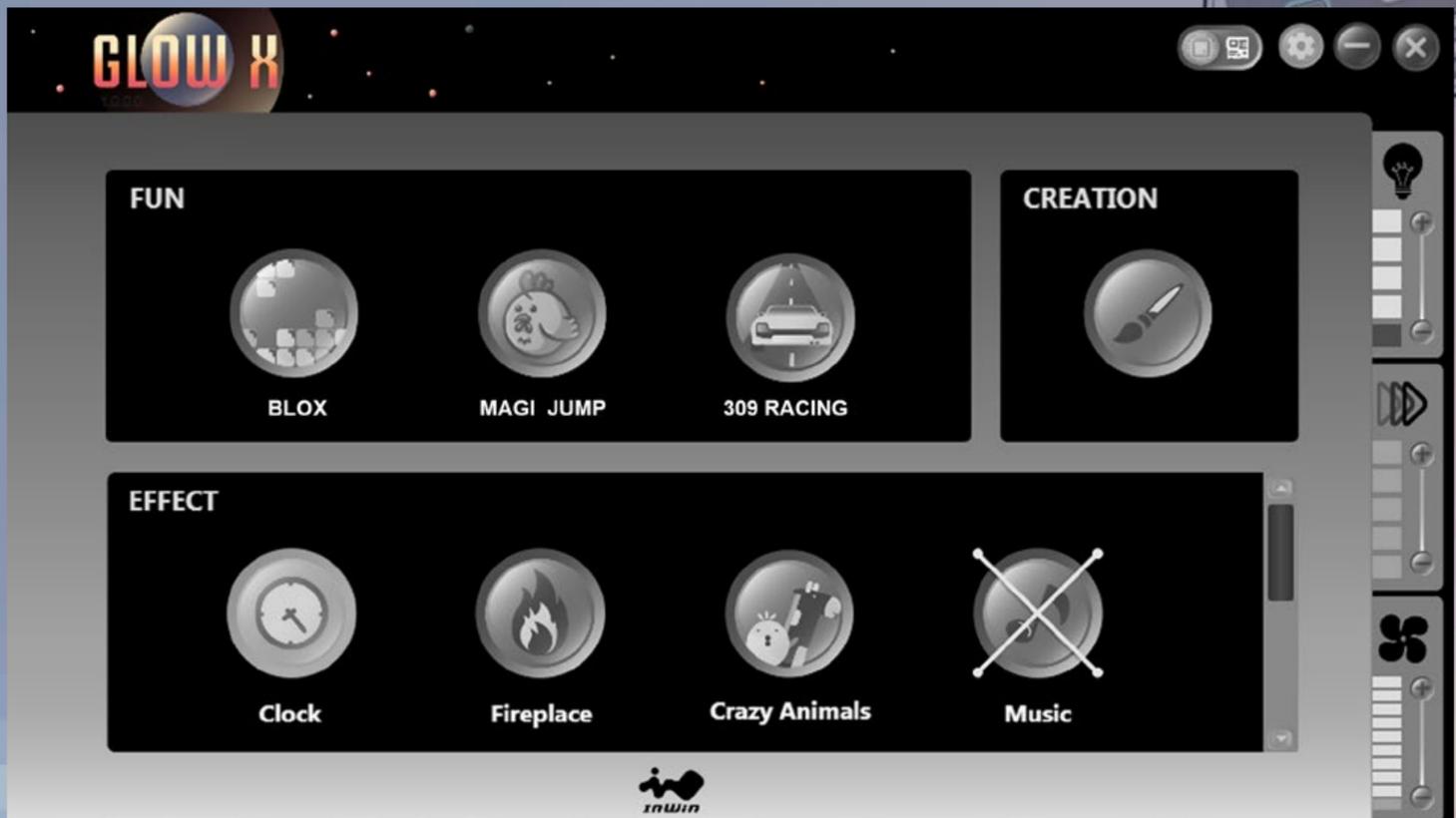
1. Please click “download” on the 309 Gaming Edition website to install the **GLOW X software**.

2. After downloading the **GLOW X software** on the desktop, please click to open it.

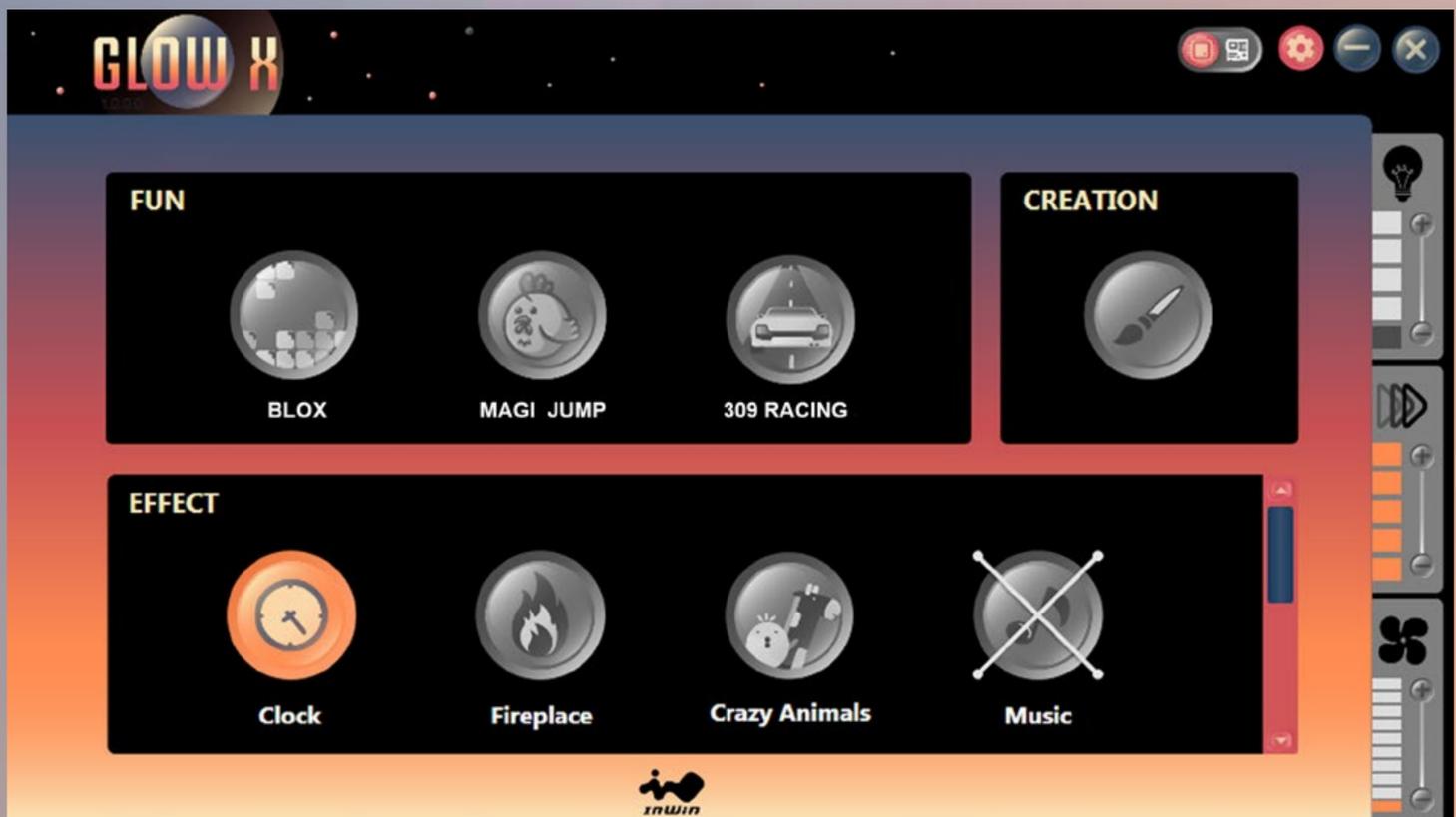
* Note: The GLOW X software is the exclusive software of the 309 Gaming Edition. All previous models cannot run this version.



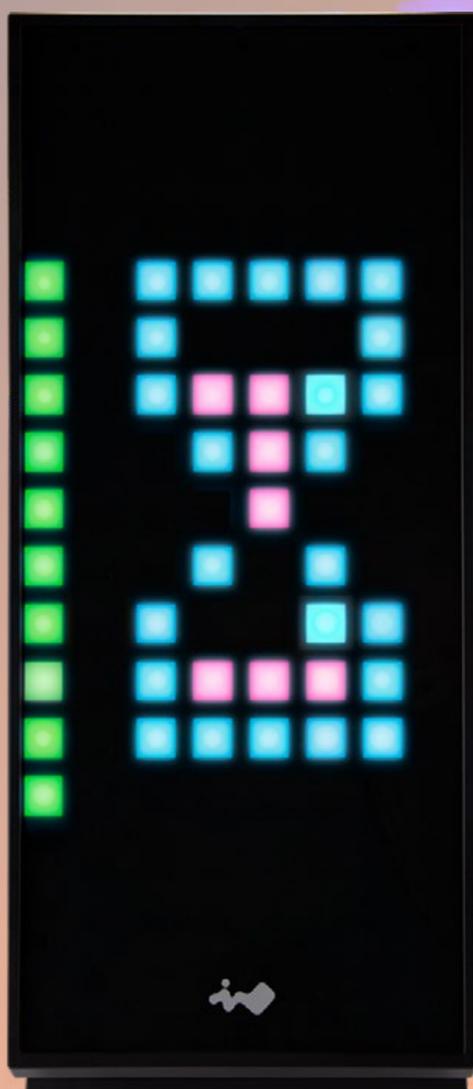
Status Descriptions



Device Disconnected



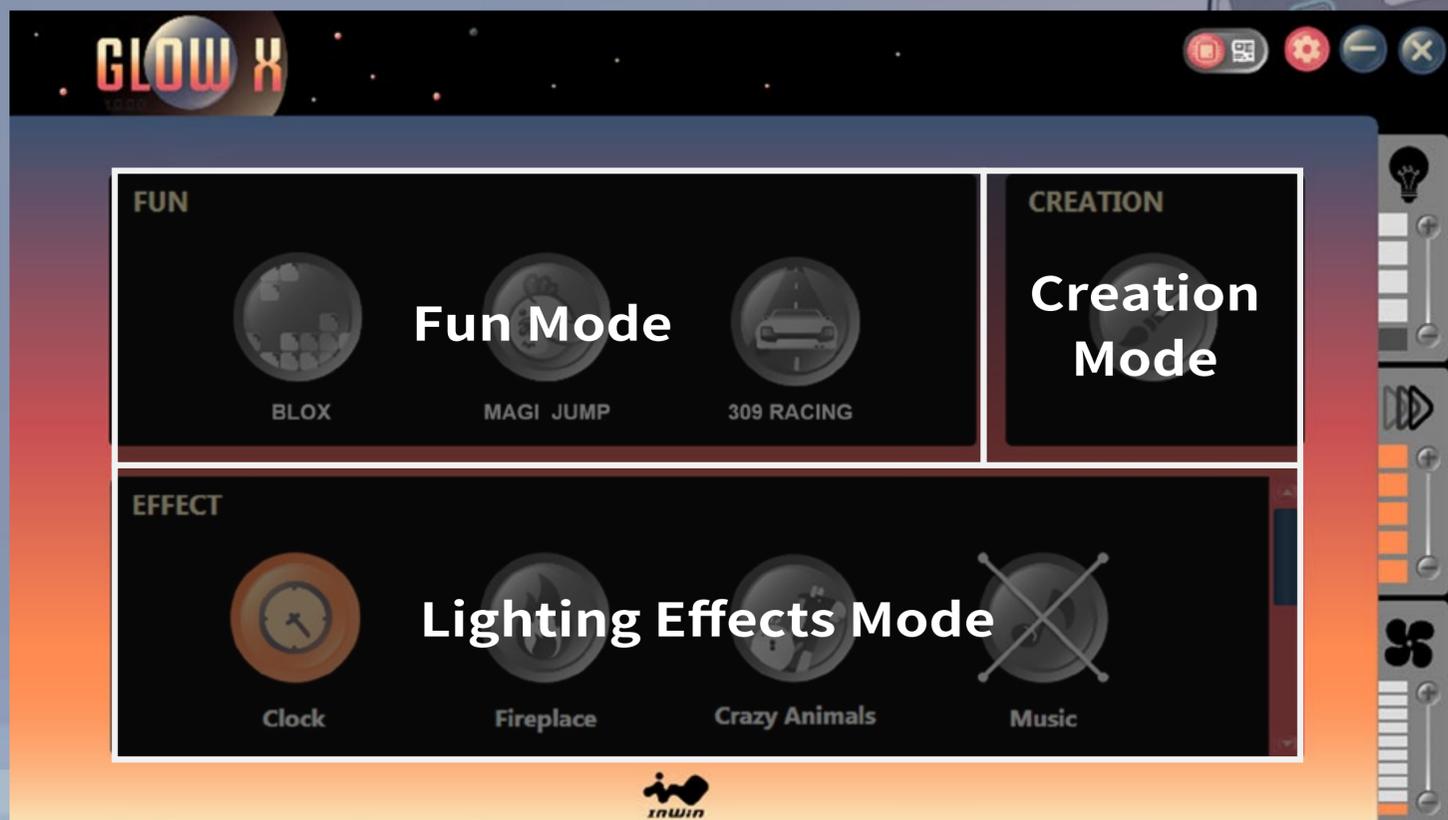
Device Connected



There will be an hourglass image on the front panel when loading the software or saving the creation frames. During this process, all functions on the GLOW X software will be temporarily disabled until the effect disappears. Loading times vary based on the quantity of frames used in Creation Mode.

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EDITION

Modes Descriptions

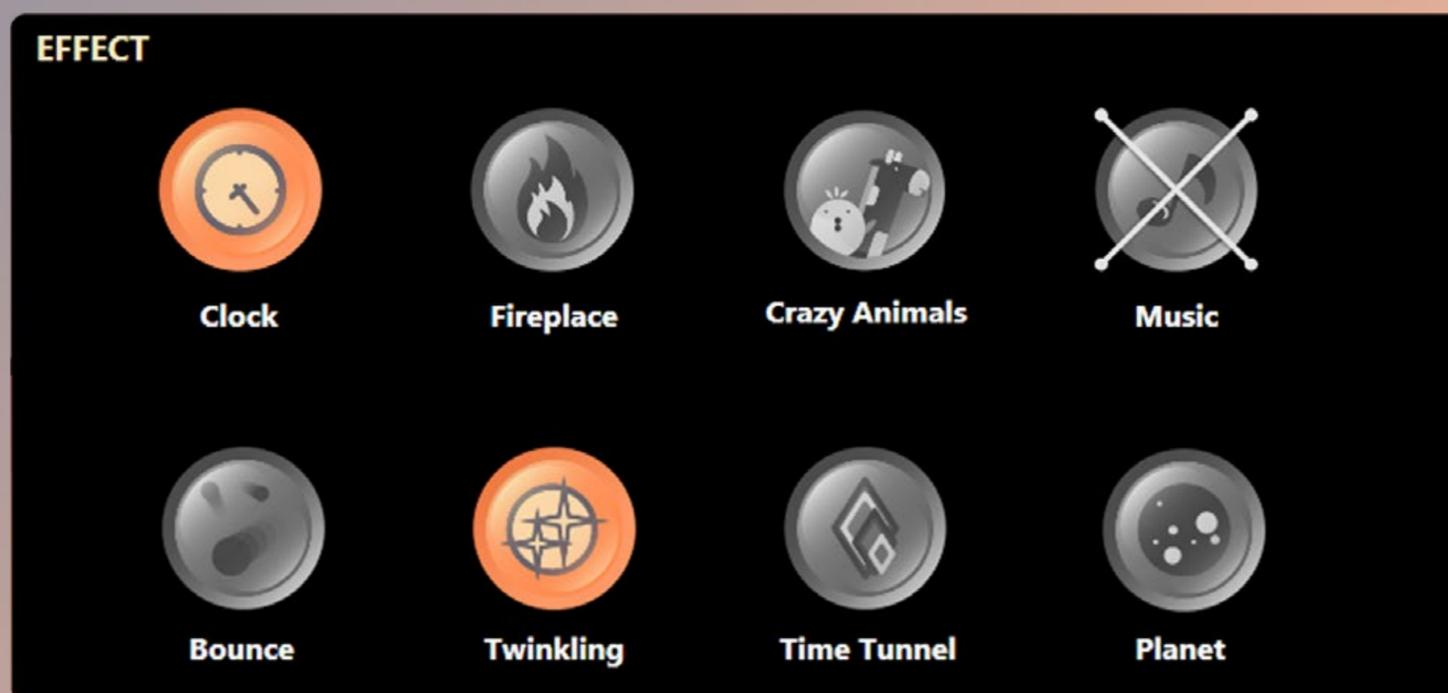


Fun Mode: Click to choose a game and press start with the gamepad. Have fun!

Creation Mode: Customize your own lighting effect (Please refer to Page 23 for more instructions)

Lighting Effects Mode: Built-in lighting effects

Lighting Effects Mode Descriptions



Clock: Display the time

Fireplace: Spark effect reacts with voices via the case's microphone

Crazy Animals: Animated giraffe and chick goes crazy when the microphone picks up voices and sounds.

Music: Equalizer mode's lights reveal the rhythm of music

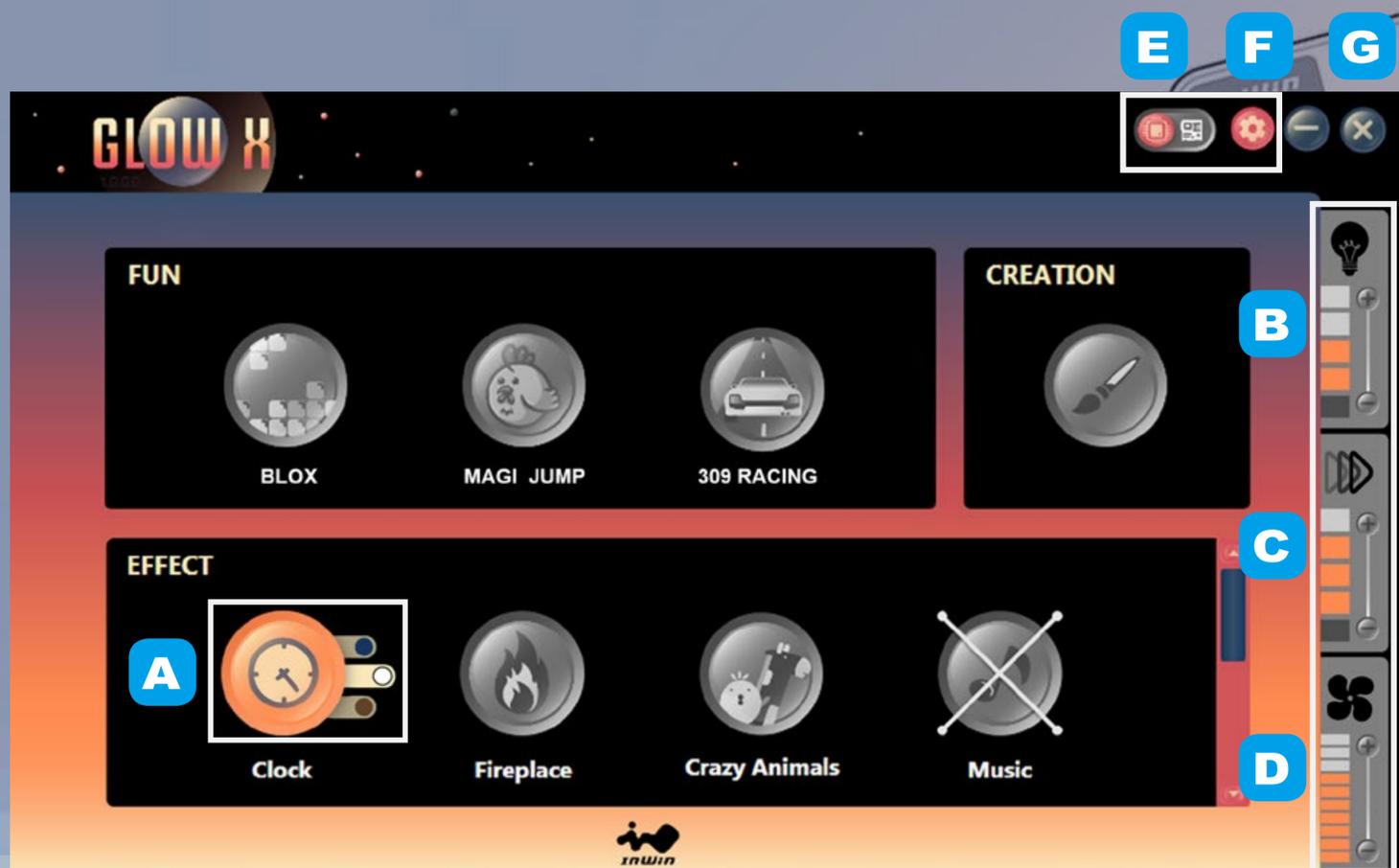
Bounce: Light moves like bouncing ball

Twinkling: Like stars twinkling in night sky

Time Tunnel: Dazzling tunnel effect

Planet: Rotating planets

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A. Colors:

Each mode provides up to 1-3 colors / themes to choose from.

B. Lights:

Control light brightness by pressing the + and – buttons. There are 5 levels including turning off the lights completely.

C. Speed:

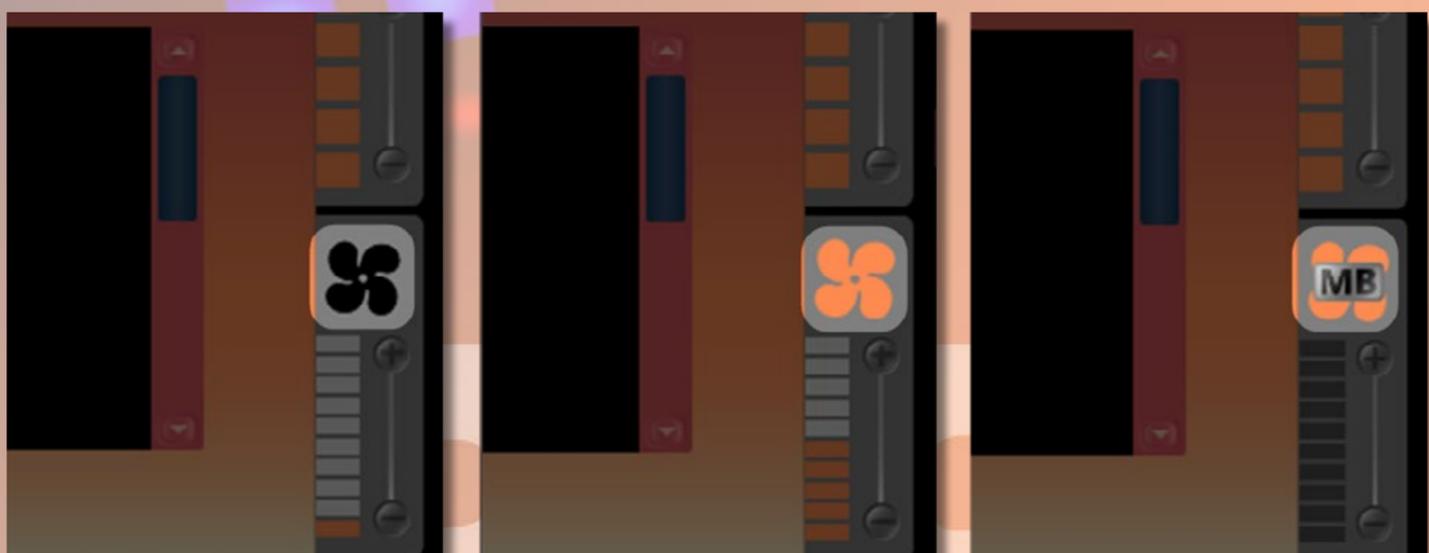
Control speed by pressing the + and - buttons, there are 5 levels.

D. Fan Output:

Control the fans' speed by pressing the + and - buttons.

There are 10 fan speed levels up to Turbo mode (120% of the fans' speed). If the 4-pin fan connector is connected with the motherboard, you can easily click the fan icon on the GLOW X software to adjust the control mode.

Note: The fan control will not work on the GLOW X software if the motherboard software is running.



Fans disconnected

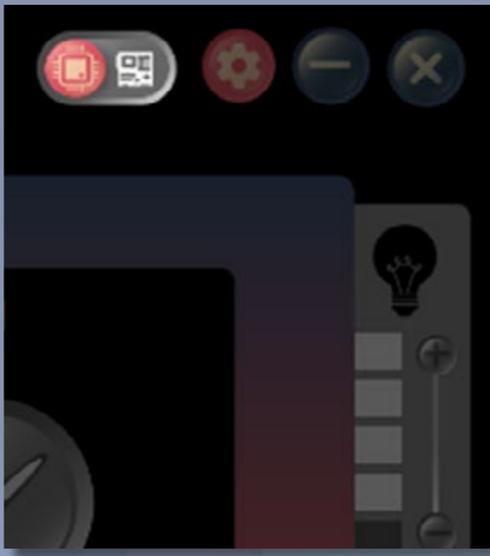
Fans controlled by
GLOW X

Fans controlled by
motherboard

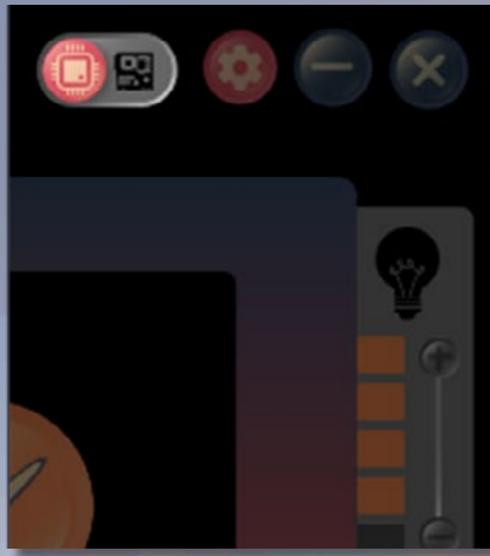
E. Motherboard or GLOW X software options:

Control the lighting effects with an ARGB enabled motherboard. If your motherboard doesn't have an addressable header (3-pin, 5V), you can control the lighting by downloading the GLOW X software.

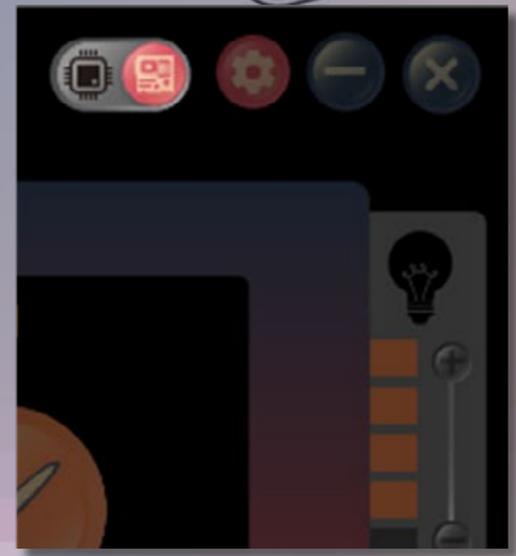
* Note: The 309 Gaming Edition and Saturn ASN120 fans use a lot of LEDs and some motherboards may not be able to handle the number of LEDs. Please use the GLOW X software if the lighting isn't functioning properly.



ARGB header isn't properly connected to the motherboard.



ARGB header connected properly; the lighting effects are now controlled by GLOW X software.



ARGB header connected properly; the lighting is controlled by the motherboard software.

F. Settings:

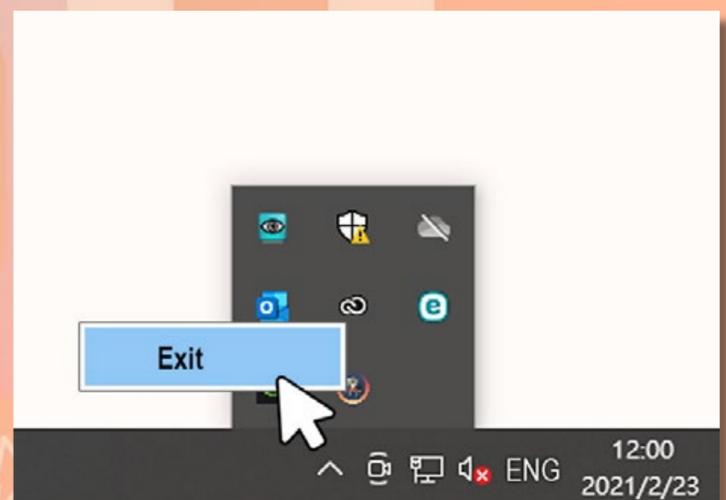
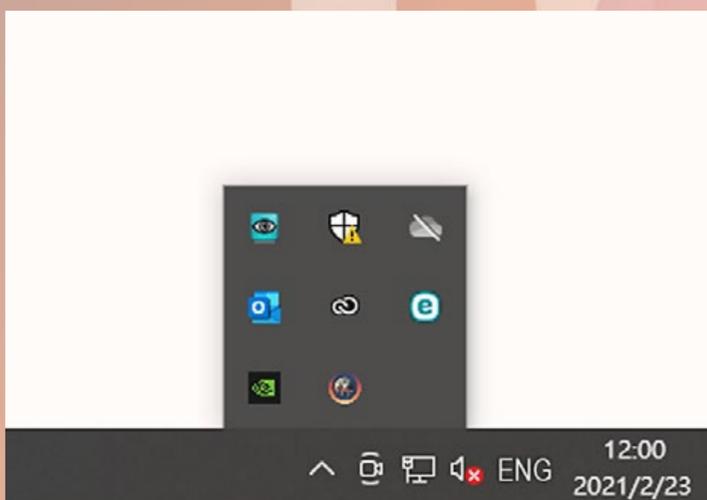
MIC Threshold Settings (for Fireplace, Crazy Animal effects): Please set the numbers in ascending order. The smaller the number, the greater the sensitivity.

* Note: Please click "Save to ROM" button to apply all changes.

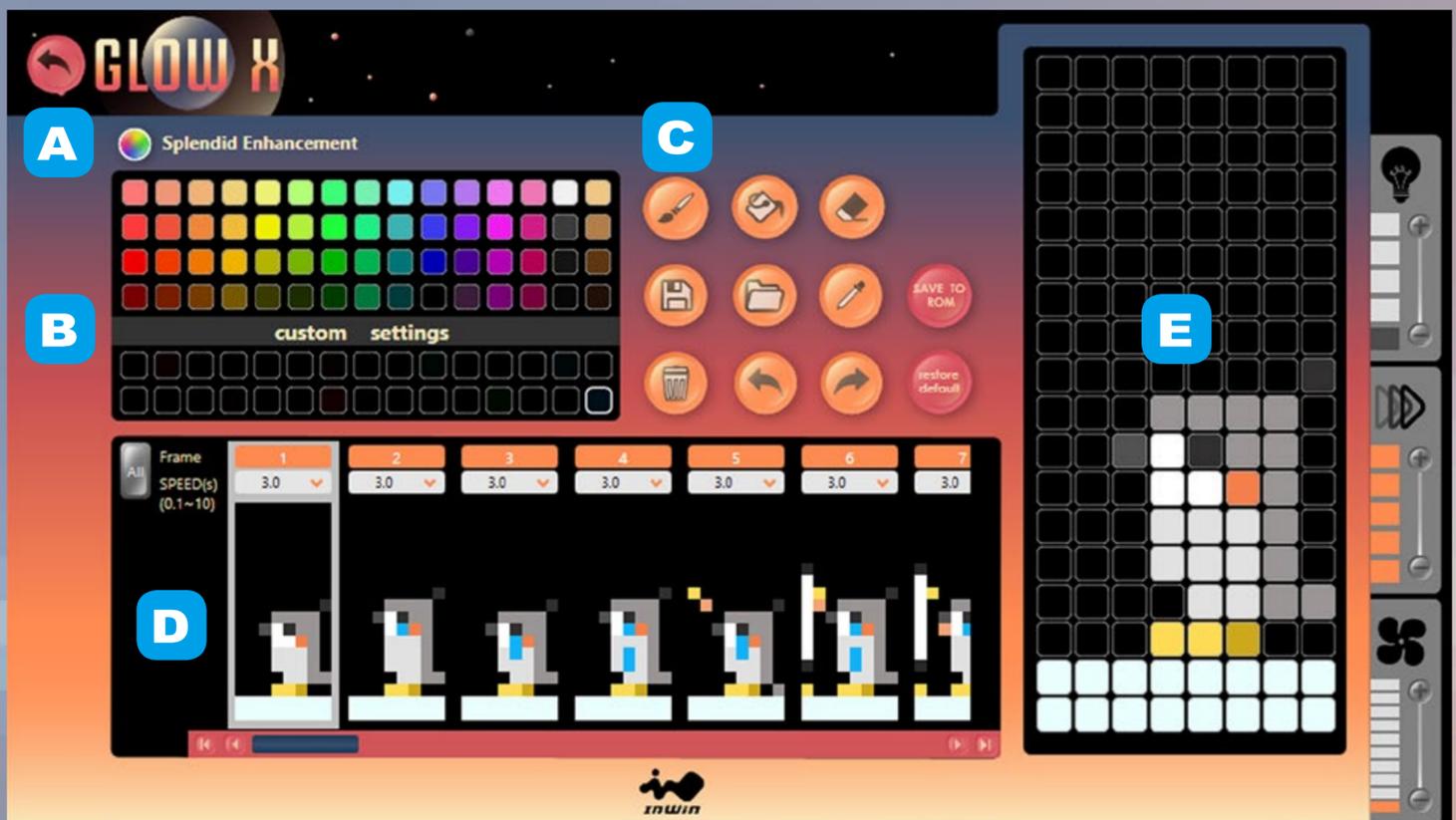


G. Minimize or shut down the software display:

The software will execute in the background if you click the – or X buttons. Please find the application in the taskbar and right-click the button on the mouse, press "Exit" to shut down the software completely.

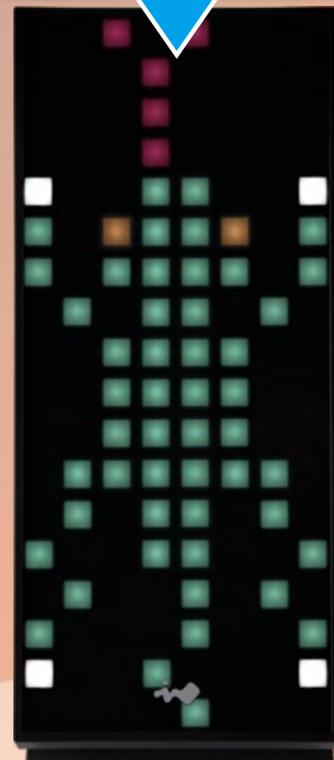
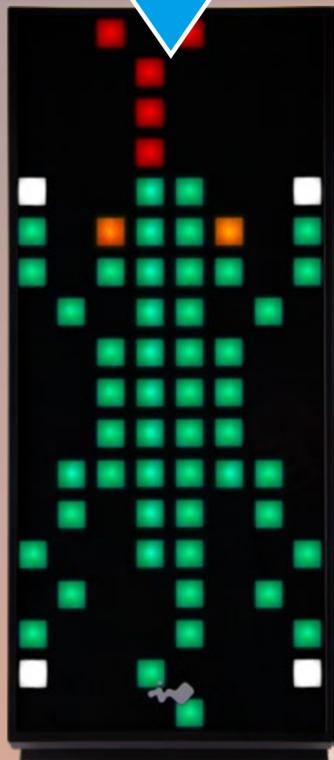


GLOW X Creation Mode



A. Splendid Enhancement:

Turn on or off the color calibration function.



B. Palette:

Please double-click the block to add/change the colors. There are 60 default colors and 20 blocks to be filled. You can choose any colors you prefer!

C. Tools:

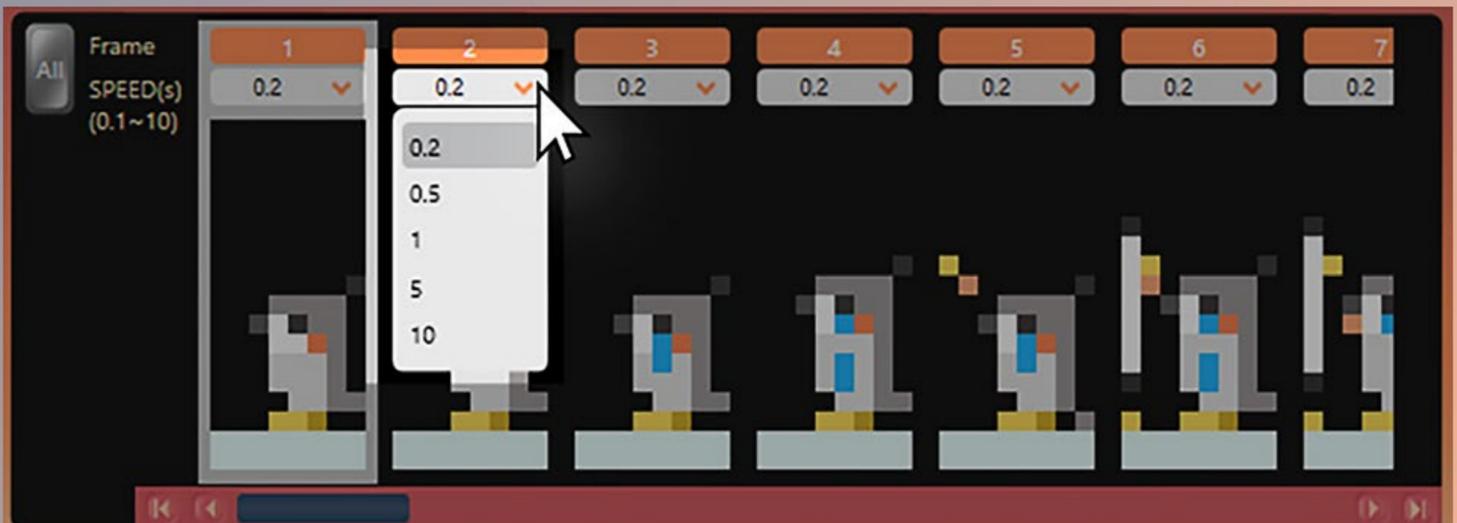
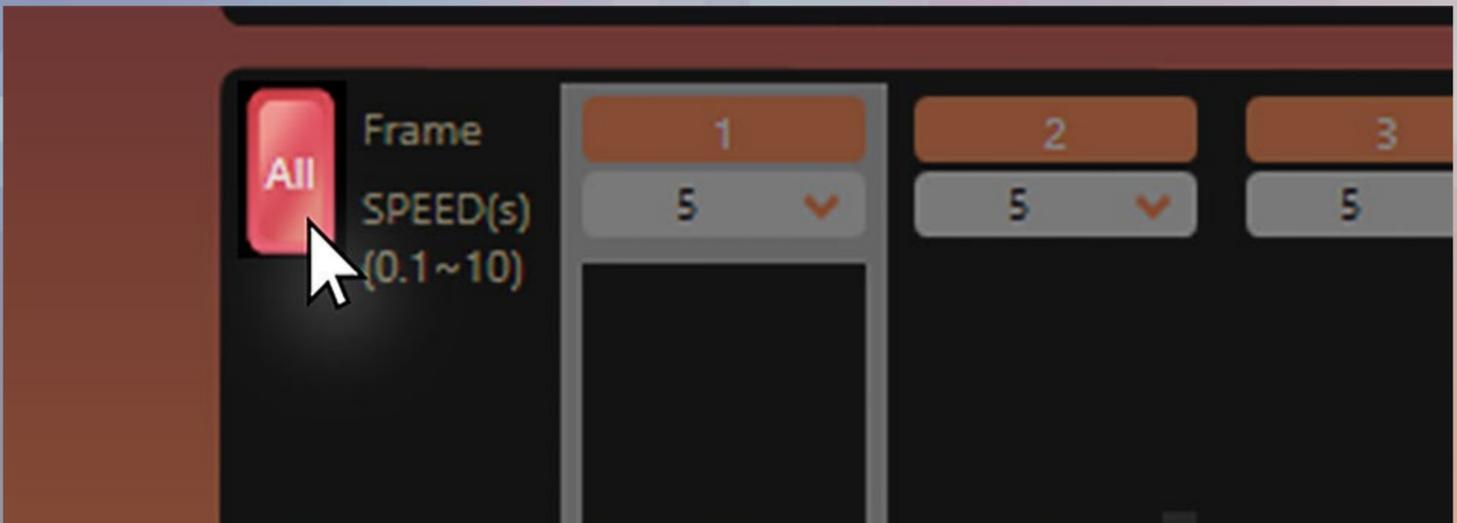
Brush / Painting / Eraser
Save / Open Files / Eyedropper / Save to ROM
Trash Can / Restore / Redo / Restore Default

D. Frames:

Provide 40 frames to create an image or animation, which offer a timeframe range of 0.1 to 10 seconds for each image. You can choose from the options of the menu or key-in the number in the fields and press “Enter” on the keyboard to change settings.

Click “All” to change all the frames settings or you can change frames one by one.

Click the orange area to gray, the frame which you selected will not display on the front panel.



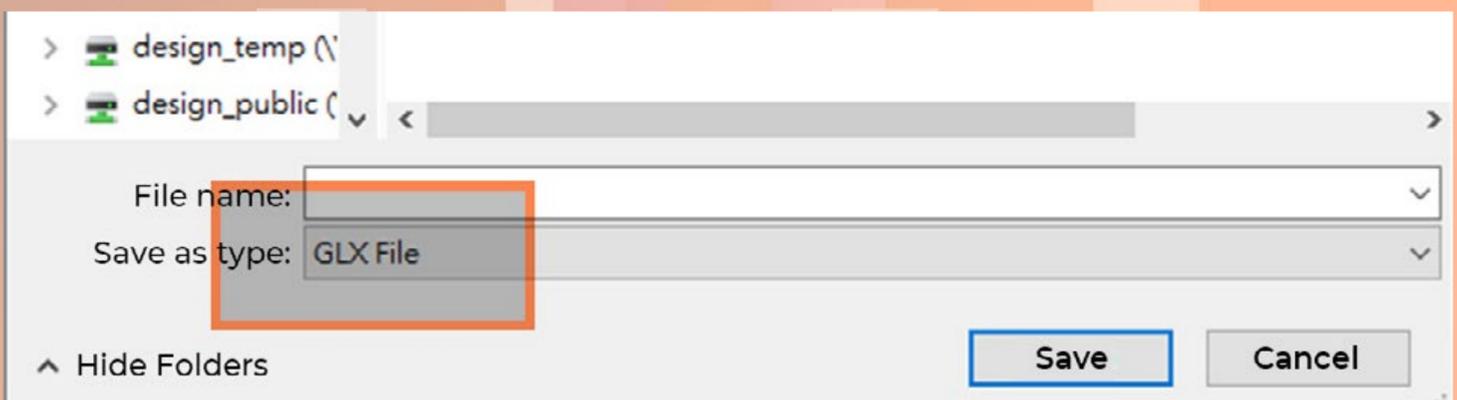
E. Canvas: Drawing anything you want here!

File Format Descriptions

There are two formats when opening or saving files.

A. BMP File: To open / save as an image.

B. GLX File: To open / save as an animation. All frames and related settings including frame speed and display settings will be opened / saved at the same time.



Notices and Warranty

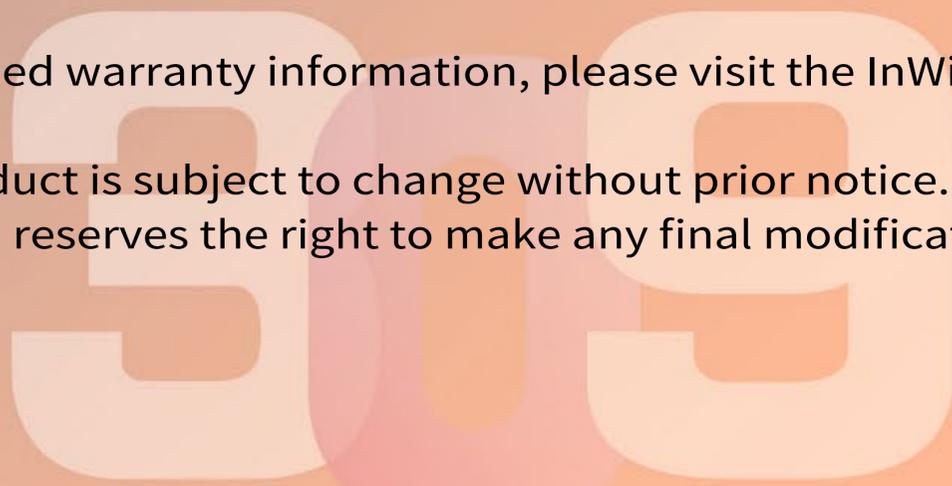


■ Notices

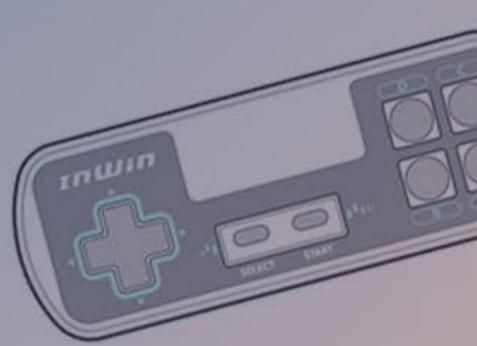
1. Install in accordance with the user manual's instructions and safety warnings. Incorrect installation may result in burning out the motherboard and other system components.
2. To avoid damaging any circuits, please make sure the power is off before assembling any internal device.
3. When installing the computer components, please use the antistatic precautions to prevent ESD (electrostatic discharge) damage. This can cause injury to the installer and/or damage to the machine.
4. When the side panels are opened, please do not put your hands or other objects into the fans or other parts in operation. And please make sure to keep away from children and pets.
5. Please avoid unnecessary insertions and extractions to the addressable cable as it may damage the pins.
6. To avoid any damages, please do not use this product for any other purpose than its intended use.
7. Any modifications may damage the product.
8. Please remove all internal devices before shipping or moving. (Including power supply, hard drives, motherboard, CPU, etc)
9. Keep this product away from areas with high temperatures such as: heat dissipation machines, air conditioners or other machines which may generate high temperatures.
10. Please use only this product's exclusively supplied cables. Other cables may not be compatible and could cause serious damage to your system and power supply.
11. Please replace the battery of the chip if the clock synchronization doesn't work.
12. There are 4 Saturn ASN120 fans pre-installed in this product, if you would like to install 5 or more fans, please use the additional exclusive power cable to avoid overloading the system and other system components.

■ Warranty

1. For more detailed warranty information, please visit the InWin retail website at www.in-win.com.
2. The actual product is subject to change without prior notice. In Win Development Inc. reserves the right to make any final modifications.



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