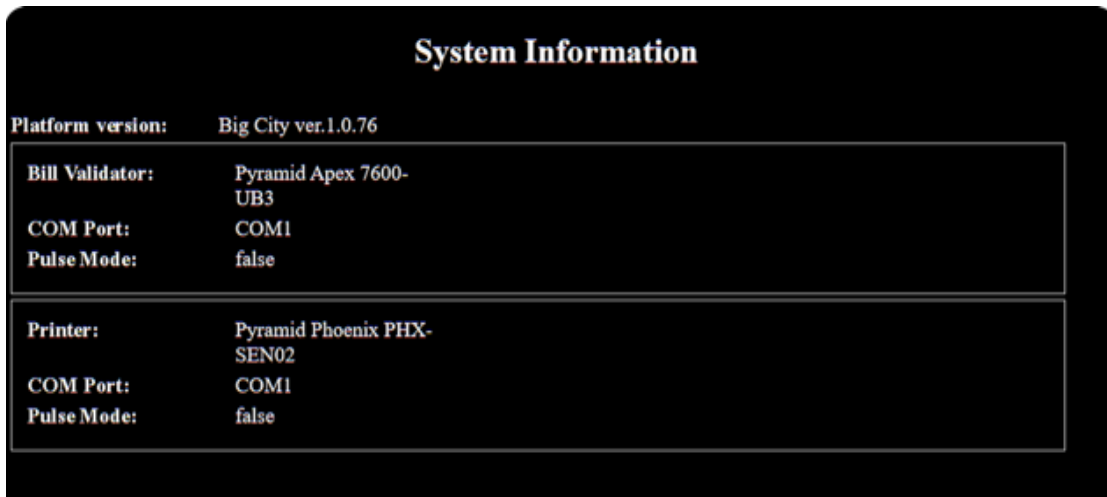
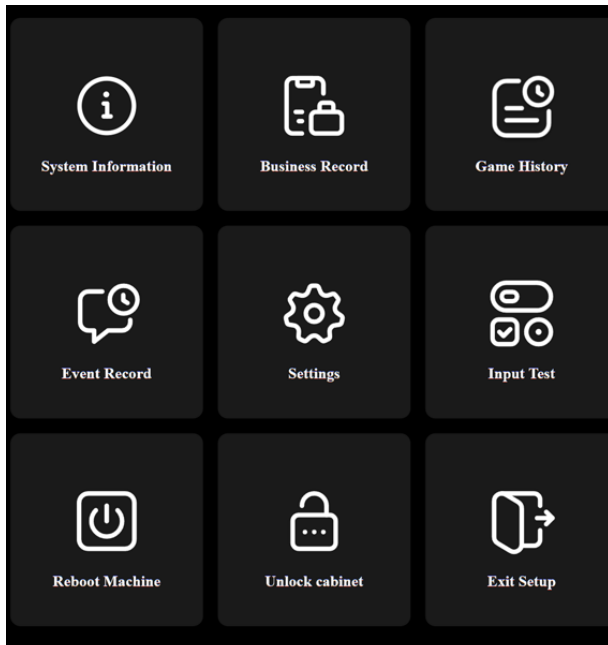


HORIZON BIG CITY: MANUAL FOR OPERATORS

*Access Operator Menu from main Game Menu only,
not while in a game.

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1. System Information

Platform version	Displays the current version of the platform installed on the machine.
Parameters of set Bill Validator	<ul style="list-style-type: none"> - Name of Bill Validator; - COM Port number; - Pulse mode (true - pulse enabled, false -serial enabled)
Parameters of set Printer	<ul style="list-style-type: none"> - Name of Printer; - COM Port number; - Pulse mode (true - pulse enabled, false -serial enabled)

2. Business Record

The **Business Record** section provides detailed performance and activity data for the machine. It helps track game activity, player behavior, and machine earnings.

Business Record			
	CURRENT SESSION	PREVIOUS SESSION	LIFETIME
	2025-10-08 13:20		2025-10-08 13:20
Amount In:	\$0.00	\$0.00	\$0.00
Amount Out:	\$0.00	\$0.00	\$0.00
Hold %:	0%	0%	0%
Amount Played:	\$0.00	\$0.00	\$0.00
Amount Won:	\$0.00	\$0.00	\$0.00
Games Played:	0	0	0
Games Won:	0	0	0
Number of Cashouts:	0	0	0
RTP:	0%	0%	0%

Current Session	Shows meter data for the ongoing session.
Previous Session	Displays meter data from the last session.
Lifetime	Summarizes data from all sessions combined.
Amount In	Total credits inserted into the machine.
Amount Out	Total credits redeemed.
Hold %	$\left(\frac{\text{Amount In} - \text{Amount Out}}{\text{Amount In}} \right) \times 100$ Percentage of credits retained by the machine.
Amount Played	Total credits played.
Amount Won	Total credits won by players.
Games played	Total number of games played.
Games won	Number of games with a winning outcome.
Number of Cashouts	Total count of cashout transactions.
RTP	Calculated as $(\text{Amount Won} / \text{Amount Played}) \times 100$.

How to Use This Section

1. Open the **Business Record** tab from the operator menu.
2. Review the data for the **current session**, **previous session**, or **lifetime** to monitor machine performance.

⚠ Note: The data is automatically updated in real time and reflects the actual game activity and player transactions.

Buttons:

The **Business Record** tab includes buttons to manage session and lifetime data.

End Period Button

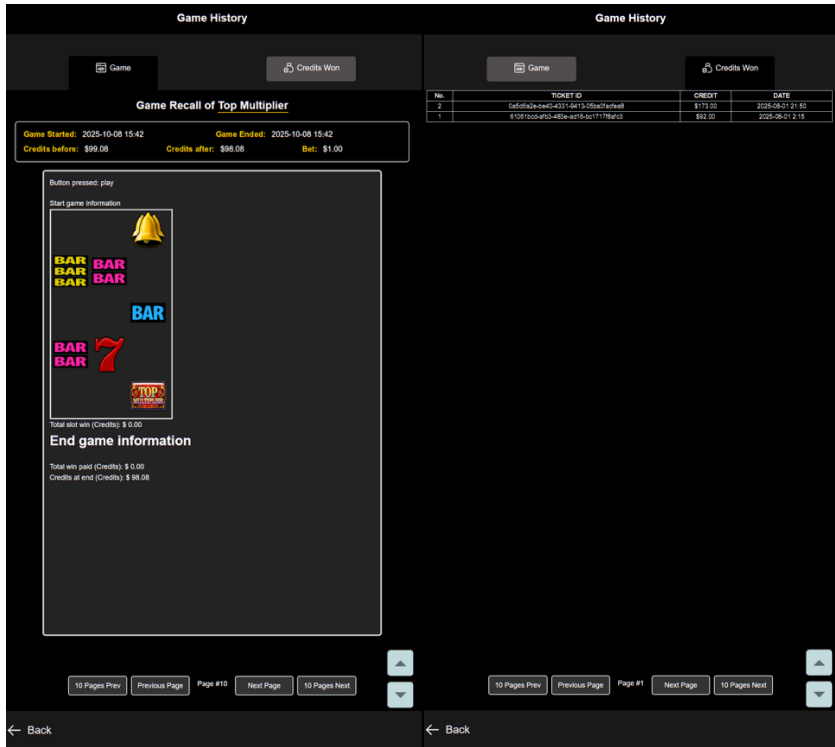
- **Function:** Resets the **current session** and saves its data to the **Previous Session** record.
- **To use this button:**
 1. Locate and press the **End Period** button in the Business Record tab.
 2. A confirmation message will appear – select **Yes** to confirm.
 3. All lifetime statistics, including total credits, games played, and winnings, will be cleared.

Clear Lifetime Button

- **Function:** Resets **all lifetime statistics** to zero.
- **To use this button:**
 1. Press the **Clear Lifetime** button in the Business Record tab.
 2. Confirm the action when prompted.
 3. The current session data will move to **Previous Session**, and a new session will start with all meters reset.

 *Note:* Use these buttons carefully – once reset, session and lifetime data cannot be recovered.

3. Game History Screen



<p>Game tab</p>	<p>The Game Tab shows a detailed record of the last 100 game rounds played including:</p> <ul style="list-style-type: none"> • Credits played • Winnings • Special features triggered • Other game details <p>To view game history:</p> <ol style="list-style-type: none"> 1. Open the Game Tab from the operator menu. 2. Scroll through the list to see the most recent 100 game rounds.
<p>Credits won</p>	<p>The Credits won provides a complete log of all credit withdrawals made from the machine.</p> <p>To check history.</p>

⚠ Note: Both tabs provide real-time data and are useful for monitoring machine activity.

4. Event Record Screen

The **Event Record** tab logs all important system events and actions on the machine. It provides a complete history of machine activity, helping you track operations, changes, and any errors over time.

DATE	EVENT
2025-10-08 16:48	Operator Password OK
2025-10-08 16:48	Operator Failed Password
2025-10-08 16:49	Operator Menu Entered
2025-10-08 16:44	Operator Menu Exited
2025-10-08 16:42	Operator Menu Entered
2025-08-02 0:55	Operator Menu Entered
2025-08-02 0:55	OPERATOR_MENU button pressed
2025-08-02 0:55	Money Accepted
2025-08-02 0:54	Operator Menu Exited
2025-08-02 0:53	Operator Menu Entered
2025-08-02 0:53	OPERATOR_MENU button pressed
2025-08-02 0:53	Bill Validator Succeeded
2025-08-02 0:53	Money Accepted
2025-08-02 0:52	Bill Validator Rejected
2025-08-02 0:52	Operator Menu Exited
2025-08-02 0:52	Operator Menu Entered
2025-08-02 0:52	OPERATOR_MENU button pressed
2025-08-02 0:28	Operator Menu Entered
2025-08-02 0:28	Operator Changed Settings
2025-08-02 0:28	Operator Password OK
2025-08-02 0:28	Operator Failed Password
2025-08-02 0:28	Operator Menu Entered
2025-08-02 0:28	OPERATOR_MENU button pressed
2025-08-01 21:53	Operator Password OK
2025-08-01 21:53	Operator Menu Entered
2025-08-01 21:53	OPERATOR_MENU button pressed
2025-08-01 21:50	Printer Printed Receipt
2025-08-01 21:50	Payment Initiated with 175\$
2025-08-01 21:37	Money Accepted
2025-08-01 21:36	Money Accepted
2025-08-01 21:36	Money Accepted
2025-08-01 21:28	Operator Password OK
2025-08-01 21:28	Operator Failed Password
2025-08-01 21:24	Operator Menu Entered
2025-08-01 21:24	OPERATOR_MENU button pressed
2025-08-01 20:51	Money Accepted
2025-08-01 20:50	Money Accepted
2025-08-01 20:50	Money Accepted
2025-08-01 20:47	Operator Menu Exited
2025-08-01 20:47	Operator Changed Settings
2025-08-01 20:47	Operator Password OK
2025-08-01 20:46	Operator Failed Password
2025-08-01 20:46	Operator Menu Entered
2025-08-01 20:46	OPERATOR_MENU button pressed
2025-08-01 2:30	Operator Menu Exited
2025-08-01 2:30	Operator Changed Settings
2025-08-01 2:30	Operator Password OK
2025-08-01 2:30	Operator Menu Entered
2025-08-01 2:30	OPERATOR_MENU button pressed
2025-08-01 2:29	Money Accepted

How to View Event Records

1. Open the **Event Record** tab from the operator menu.
2. Scroll through the list to see all logged events, including system actions, errors, and configuration changes.
3. Review the entries to monitor machine activity or troubleshoot issues.

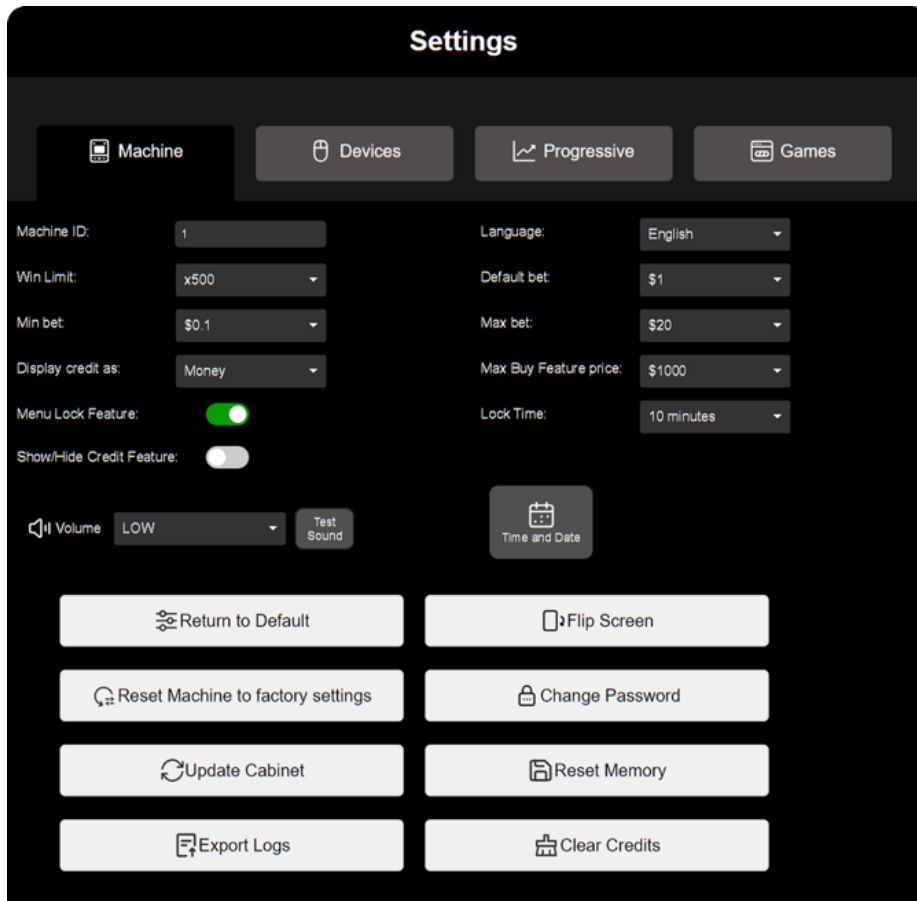
How to Clear Event Records

1. Click **Clear Records** button at the bottom of the screen.
2. A confirmation message will appear – select **Yes** to confirm.
3. All entries in the event log will be permanently deleted.


⚠ *Note:* Once cleared, the event history cannot be restored. Use this function carefully.

5. Settings Screen


The **Settings Screen** allows you to configure the main operational and display options. Follow the instructions below to adjust each setting.



Machine	
Machine ID	Displays the unique number assigned.
Language	Currently set to English (no other languages available).
Win Limit	Default win limit is x500 . Progressive jackpot payouts are not affected by this limit.
Default play	Sets the automatic play amount when the game starts.
Min Play / Max Play	Define the minimum and maximum bet amounts available in the games.
Display credit as	Display Credit As: Choose how to show game values:

	<ul style="list-style-type: none"> ○ Money: Values display with a dollar sign (e.g., \$1.00). ○ Points: Values display as credits (e.g., \$1.00 = 100 credits).
Flip Screen	Rotates the display by 180° .
Menu lock feature	<p>Allows you to lock the game menu with a password for a set duration.</p> <ul style="list-style-type: none"> • If disabled, the Lock button will not appear in the menu.
Lock Time	Choose how long the menu remains locked – 5, 10, 15, 20, or 30 minutes (default is 10 minutes).
Volume	Select the sound level – OFF, LOW, MID, or HIGH .
Test sound	Click this button to play a short sound and confirm that the audio is working correctly.
Time and Date	Set the current date and time for the machine.
Return to Default	<p>Restores all machine settings to their original default values.</p> <p>To perform this action:</p> <ol style="list-style-type: none"> 1. Locate and press the Return to Default button on the Settings screen. 2. A confirmation message will appear – select Yes to proceed. 3. The machine will automatically reset all adjustable settings (bets, volume, display, etc.) back to default.
Reset Machine to factory settings	<p>Performs a complete factory reset, restoring all settings and configurations to their original factory state.</p> <p>To perform this action:</p> <ol style="list-style-type: none"> 1. Press the Reset Machine to Factory Settings button. 2. Confirm the action when prompted. 3. The machine will reboot and return to its initial setup condition. <p> <i>All custom settings, data, and configurations will be permanently deleted.</i></p>
Change Password	<p>Updates the password required to access the operator menu and protected settings.</p> <p>To change the password:</p>

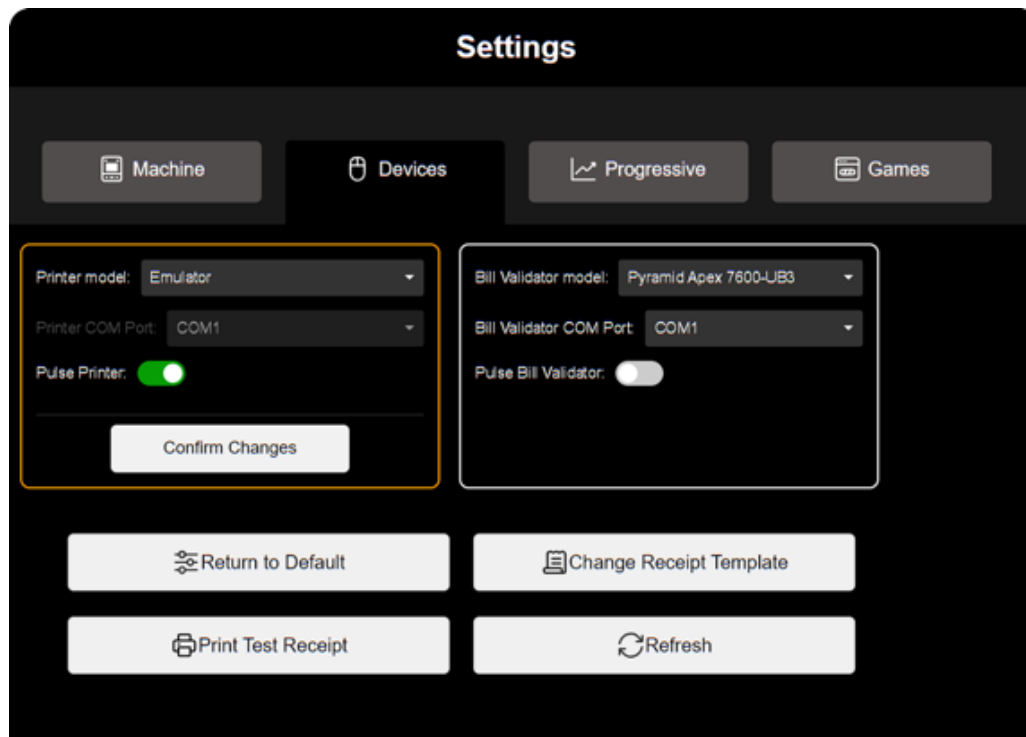
	<ol style="list-style-type: none"> 1. Select the Change Password option in the Settings menu. 2. Enter and confirm your new password. 3. Press Save or Confirm to apply the change. 4. The new password will take effect immediately for all protected functions.
Update Cabinet	<p>To upload a new version:</p> <ol style="list-style-type: none"> 1. Press the 'Update Cabinet' button. A message will appear asking you to connect a thumb drive containing the archive with the update. 2. Connect the drive with the update. 3. Press the 'Confirm' button. 4. Select the version to update. <p>During the update, the cabinet will reboot twice.</p>
Reset Memory	<p>Resets the cabinet's NVRAM data, including information about played games, credits, and configured settings.</p> <p>To perform this action:</p> <ol style="list-style-type: none"> 1. Go to the Settings screen. 2. Press the Reset Memory button. 3. A confirmation message will appear – select Yes to proceed. 4. The machine will clear all stored data and automatically restart. <p>⚠️ All game history, credit, and settings will be permanently deleted.</p>
Export Logs	<p>Steps to export logs:</p> <ol style="list-style-type: none"> 1. Press the 'Export Logs' button. <i>A message will appear asking you to connect a thumb drive containing the archive.</i> 2. Connect USB flash drive to the cabinet. 3. Press the 'Confirm' button on the window. <i>The logs will be exported, and a corresponding message will appear.</i>
Clear Credits	<p>Removes all remaining credits from the machine.</p> <p>To clear credits:</p> <ol style="list-style-type: none"> 1. Press Clear Credits. 2. Confirm the action when prompted. 3. The credit on the machine will reset to zero.

<p>Show/Hide Credit Feature</p>	<p>Controls whether players can toggle the visibility of their credit.</p> <p>To change this setting:</p> <ol style="list-style-type: none"> 1. Select one of the following options: <ul style="list-style-type: none"> ○ Enabled: Players can tap their balance in the menu or in-game to hide or show it. ○ Disabled: The balance will always remain visible. 2. The change takes effect immediately.
<p>Use Hands Count</p>	<p>Determines whether the “hands count” feature is active. When enabled, the player must complete a specific number of spins before being able to cash out winnings.</p> <p>To enable or disable:</p> <ol style="list-style-type: none"> 1. Choose Enabled to activate the feature or Disabled to turn it off.
<p>Hand Count Amount</p>	<p>Defines the bet amount per hand.</p> <p>To adjust this value:</p> <ol style="list-style-type: none"> 1. With Use Hand Count enabled, find the Hand Count Amount field. 2. Enter the desired amount. 3. Press  to apply the new setting.

6. Devices screen

The **Devices** screen allows you to configure and manage the **Printer** and **Bill Validator** connected to the machine.

⚠ Important: These devices may not work correctly if incorrect settings are applied. Always double-check the configuration before saving changes.



To Configure the Printer or Bill Validator:

- 1. Select the Device:**
Choose whether you want to configure the **Printer** or the **Bill Validator**.
- 2. Choose the Device Model:**
From the dropdown list, select the correct **model name** for the device installed in the machine.
Make sure the model matches the hardware you are using.
- 3. Select the COM Port:**
 - Choose the appropriate **COM Port** assigned to the device.
 - *Note:* The **COM Port** option is **not available** when the device is operating in **Pulse Mode**.
- 4. Select the Operating Mode:**
 - **Pulse Mode (ON):** The device communicates using electrical pulses.

- **Serial Mode (OFF):** The device communicates using a serial connection. Choose the correct mode based on your hardware setup.
- 5. **Apply the Changes:**
 - After making your selections, a **Confirm Changes** button will appear.
 - Click **Confirm Changes** to save and apply the new settings.

To Reset Device Settings to Default:

1. On the **Devices** screen, press the **Return to Default** button.
2. Confirm the action when prompted.
3. The Printer and Bill Validator settings will be restored to their factory defaults.

Hardware Configuration of Printers Before Connection

1. Completely turn off the machine and disconnect the power supply.
2. Configure the switches to the required operating mode (Pulse/Serial).
3. Connect the appropriate cable for the selected operating mode, and disconnect any unnecessary cables.
4. Power on the machine and wait for the platform to finish loading.
5. Open the **Operator Menu** → **Settings** → **Device** tab. Select the desired printer model and set the required operating mode.

IMPORTANT:

Do **not** connect cables or change the switch configuration “on the fly.” Doing so may cause the printer to enter an undefined state (this behavior depends on the device firmware and cannot be influenced externally). It may also lead to incorrect operation and poses potential electrical safety risks.

- Change Receipt Template (Only for serial mode)

This option opens a window where you can set up the information that appears on printed receipts, such as contact details and custom messages.

To change the receipt template:

1. On the **Devices** screen, locate and press the **Change Receipt Template** button.
2. A configuration window will open.
3. Fill in or update the following fields:
 - **Address:** (Optional) Enter the address that will appear on the receipt.
 - **Phone Number:** (Optional) Enter your contact phone number.
 - **Fax Number:** (Optional) Add a fax number if applicable.
 - **Board Name:** (Optional) Enter the name or identifier of your gaming board or establishment.

- **Message 1 / Message 2:** (Optional) Add one or two custom messages (e.g., "Thank you for playing!" or "Good luck next time!").
- 4. After entering all details, review them carefully for accuracy.
- 5. Press **Save** to apply the changes.
- 6. The updated template will be used for all future printed receipts.

- Print Test Receipt

This option allows you to print a sample ticket to verify that the printer is functioning correctly.

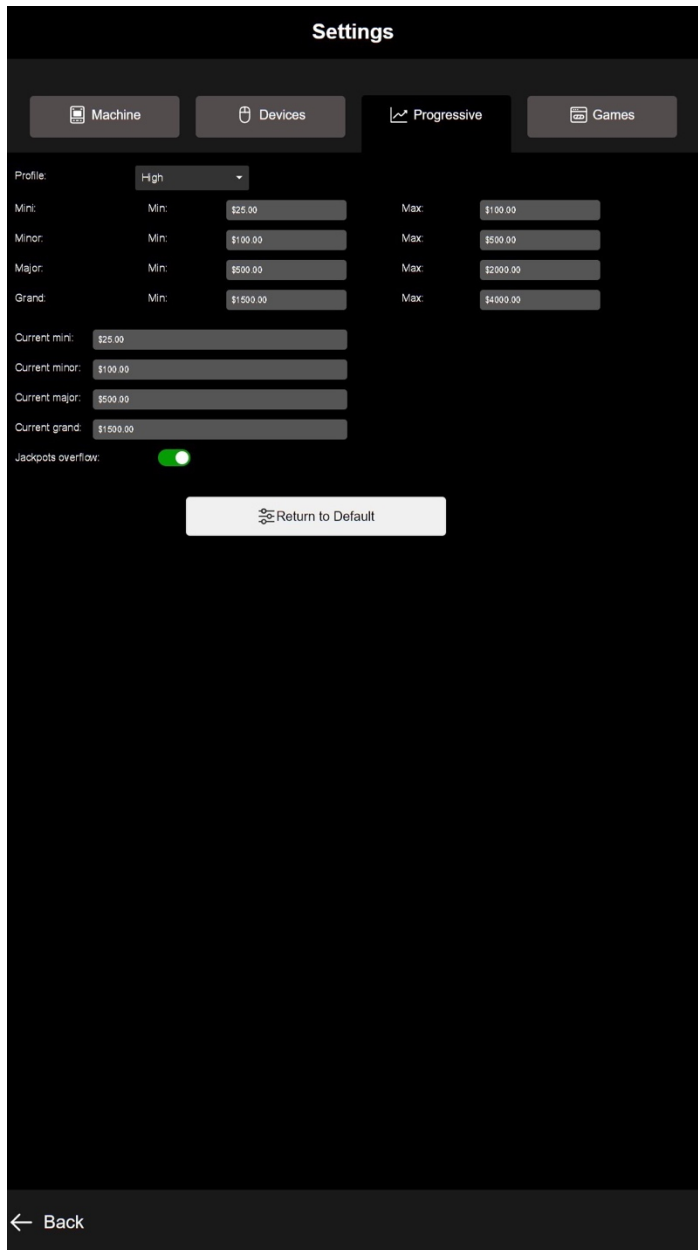
To print a test receipt:

1. On the **Devices** screen, press the **Print Test Receipt** button.
2. Wait a few seconds while the printer prints a sample ticket.
3. Press the test receipt.
4. If the test receipt is incorrect or incomplete, return to **Change Receipt Template** to make adjustments, then print another test receipt to confirm.



7. Progressive Screen

The **Progressive Screen** allows you to configure and manage **progressive pots** on the machine.



	LOW	MID	MID-HIGH	HIGH
Mini	5/50	10/100	20/100	25/100
Minor	25/100	50/200	60/250	100/500
Major	125/500	250/1000	300/1000	500/2000
Grand	250/1000	500/2000	900/3000	1500/4000


Progressive Profile


- **Profile Options:** Choose from **LOW**, **MID**, **MID-HIGH**, or **HIGH**.
- Each profile has its own **minimum and maximum pot values**, which determine the range of the progressive pot for that profile.

Adjust Progressive Pot Value

- You can manually adjust the **current value** of each progressive pot, as long as it remains within the minimum of the selected profile and maximum of 999,999.99.

To adjust the pot value:

1. On the **Progressive Screen**, locate the pot you want to modify.
2. Enter the desired **current pot value** within the allowed range.
3. Press  to apply the change.
4. The new pot value will immediately update and be reflected in the game.

 *Note:* Changing the profile or pot values does **not affect player winnings already accumulated**, only future spins and jackpots.

Jackpot Overflow Toggle

This toggle controls the behavior of jackpot accumulation when the maximum jackpot value is reached.

- **Enabled (default):**
Jackpot pots continue to increment even after reaching their maximum value. In the game interface, only the maximum jackpot amount is displayed to the player, while in the operator menu the actual accumulated value continues to grow beyond the limit.
- **Disabled:**
Jackpot pots stop accumulating once the maximum value is reached.

8. Games Screen

Buffalo Wilds	<ul style="list-style-type: none"> • Toggle near the game name enables/disables the game (if disabled - it won't appear in the game menu), • RTP (Return To Player) options for the game: VERY LOW - LOW - MID - HIGH • Features configuration: the listed features can be enabled or disabled for each game. Disabled features will not appear in the game at all.
Top Multiplier	
Luck O'The Clover	
Book Of Oktoberfest	
Lucky Golden Coins	



Autoplay – Allows the reels to spin automatically (also works in the Feature Spin feature).

Bet Chance – This feature triggers when the player's balance becomes lower than the current bet. A wheel with red and green sections spins; if it lands on green, the player gets an extra spin. If it lands on red, the extra spin does not play.

Mega Spins – This feature allows the player to purchase spins in which the Free Spins symbols stay on the reels for all remaining spins.

Feature Spin – An additional way to trigger free spins. The player spins mini-reels, and if a winning combination appears, the prize is free spins instead of cash payouts like in the base game.

Buy Feature – Lets the player instantly access the free spins by paying a set amount, instead of waiting for scatter symbols to land randomly during the base game.

Frenzy – This feature triggers when a Frenzy symbol appears. The symbol collects winnings from all cash and pot symbols that land simultaneously with the Frenzy symbol on the reels.

Double Up – Allows the player to multiply their winnings by guessing the color or suit of a card in a mini-game. Guessing the color (red/black) doubles the win, while guessing the suit multiplies it by 4.


Return to Default - Games Configuration

The **Return to Default** button restores the machine's game settings to their original factory defaults. This includes:

- All games **enabled**
- All game **features enabled**
- **HIGH RTP** (Return to Player) setting

To reset game settings to default:

1. Locate and press the **Return to Default** button.
2. A confirmation message will appear – select **Yes** to confirm.
3. The machine will automatically restore all game settings to the default configuration.

 *Note:* This action only affects the game settings. Other machine settings (e.g., credits, progressive pots, devices) will remain unchanged.

9. Input Test Screen

The **Input Test Screen** is a diagnostic tool that allows you to check and configure various hardware inputs and devices on the machine.



Testing Buttons

1. Press any physical button on the machine.
2. Observe the on-screen indicator;
 - o **Green** indicates the button is working correctly.

Remapping Inputs

1. Buttons, doors, meters, and LEDs can be reassigned to different IDs.
2. To remap an input;
 - o Select the desired **ID** from the drop-down menu.
 - o The input will now be associated with the new ID.

Testing Meters

1. Go to the **Meters** tab on the Input Test Screen.
2. Press **Add 1**, **Add 10**, or **Add 100** to increase the physical meter by the corresponding amount.
3. Confirm that the meter count on the screen matches the physical meter.

Bill Validator Information

1. Switch to the **Bill Validator** tab.
2. The screen will display information about the installed bill validator and recently inserted banknotes, including;

- **Amount** of the banknote
- **Date and time** of insertion

This tool helps ensure that all hardware inputs are correctly recognized and functioning properly.

10. Reboot machine

The **Reboot Machine** button restarts the machine.

To reboot the machine:

1. Press the **Reboot Machine** button in the operator menu.
2. Enter password.
3. Wait while the machine shuts down and restarts automatically.

 *Do not turn off power manually during the reboot process to avoid data loss.*

11. Unlock cabinet

The **Unlock Cabinet** button temporarily removes the password prompt for the current session, allowing access to the operator menu without entering the password again.

To unlock the cabinet:

1. Press the **Unlock Cabinet** button.
2. Enter the password.

12. Exit Setup

The **Exit Setup** button returns you from the operator menu back to the Game Menu.

To exit the setup:

1. Press the **Exit Setup** button.
2. You will be returned to the Game Menu immediately.

SPINBERRY PIN OUT

Part side	Pin #	Solder side
	1	
	2	
Speaker Right +	3	Speaker Right -
Speaker Left +	4	Speaker Left -
	5	
	6	
	7	
	8	
	9	
	10	Play Button
	11	
	12	
	13	
	14	Logic Door Switch
	15	Main Door Switch
	16	Ticket Lamp
	17	
Pulse Bill in	18	
	19	
Operator Menu Switch	20	Admin Menu Switch
	21	Collect/Ticket Button
	22	
IN Meter	23	
	24	
	25	
	26	
	27	
OUT Meter	28	
	29	
	30	
	31	Play Lamp
	32	
	33	
	34	
	35	
Ground	36	Ground

Part Side	Pin #	Solder Side
Ground	1	Ground
Ground	2	Ground
+5V	3	+5V
+5V	4	+5V
+12V	5	+12V
+12V	6	+12V
	7	
	8	
Ground	9	Ground
Ground	10	Ground

