Pachinko Ball & Pachislot Token Counter

Made in Dublin Ca, U.S.A.

Contents

Company Goal:

As a user-based company, PAVSoftworks strives to produce useful and cost-conscious products. Our intent is to create products that you will use. All items we manufacture are used in our environment, and we update our products as we find new and better features to include. Thank you for considering our company's products. We know you have choices, and we hope you will continue to choose our products.

Quick Start:

You will need to perform a calibration on the Load Plate before counting. Please refer to page 7 for detailed instructions.

Introduction:

So, you've decided to get a ball/token counter. We have reviewed and prototyped various methods of Pachinko ball and Pachislot token counting and believe this is a very accurate and fast method. PAVSoftworks Pachinko/Pachislot Ball and Token Counter is an in-house-designed solution for the quickest and highest accuracy ball and token counter available for home use. The following instructions will explain the calibration procedure, button, and dial functions, and how they are used to achieve 100% accuracy in our counts.

The Pachinko Ball and Token Counter is powered by a 5 VDC USB wall supply (cell phone charger), which is not included in the basic product line. We can source one for you if needed. It can also run from a cell phone power bank to make it portable.

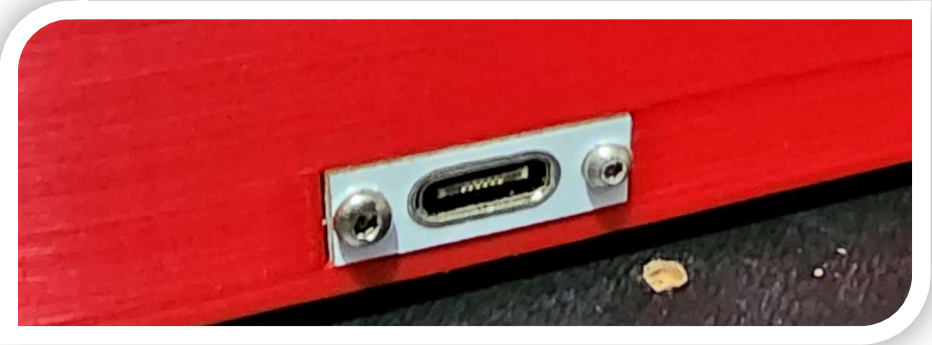
Please perform a calibration before using the ball and token counter to count your Pachinko balls. And Pachislot Tokens environmental changes from our site to yours will require a recalibration before the first use. Some times you will need to recalibrate is you notice larger errors.

This should not need to be said, but the Pachinko Ball and Token Counter is neither waterproof nor guaranteed to be water-repellent. Do not spill liquids on it and please do not take a shower with it.

Instructions:

Powering the device

To power the device, you need to provide a 5V DC power source that can supply at least 1 amp. This can be done using a power supply, wall adapter, or cell phone charger. For stable readings, ensure the power source meets these specifications. On the back of the case, you'll find a USB-C port for connecting the power source to the device.



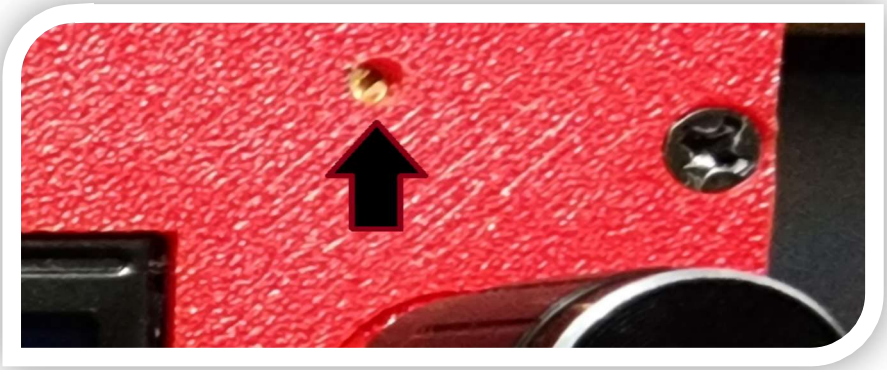
The Pachinko Ball Counter features a power switch, allowing you to keep the device connected to mains power. The switch is labeled with symbols: (O) indicates power off, and (I) indicates power on.

The front panel of the Pachinko Ball and Token Counter includes several controls: buttons, a rotary dial, and a 2-line by 16-character backlight display. We'll review each item and explain their functions in detail.

Front Panel Controls

CONTRAST:

The contrast adjustment potentiometer is located in the upper right side of the faceplate. This small brass slotted multi-turn resistor allows you to adjust the contrast of the 2-line by 16-character display, making the text lighter or darker as needed.



TARE:

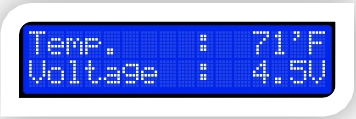
To perform the Tare function, ensure the device is displaying a non-zero reading with no balls on the plate, or place an empty container on the Load Plate if you want to re-zero the display. Then, place the item on the Load Plate. While on the home screen, press the button labeled "T" to start the Tare Procedure.

Once the Tare is completed you will be returned to the main screen.

MODE:

Several items can be configured and saved to memory by pressing the button labeled "M." This allows you to select the Mode, which can be either (B)alls, (G)rams or (T)okens for the items on the Load Plate, and F or C for displaying the temperature in Fahrenheit or Celsius. After the information is saved to memory, the device will ask if you would like to continue to the system information section, including the software version, temperature, and voltage in Volts DC, etc. These details will be useful for troubleshooting any issues that might arise when contacting us for support.

To select an item on the display, use the rotary knob. Once you've highlighted the desired item, press the rotary knob inward to confirm your selection. You can also skip the delay between screens by pressing the knob when an information screen is displayed, as shown below.



After displaying the last item, the Mode selection will be saved to EEPROM memory. This ensures that the next time you power on the Pachinko Ball Counter, the settings will be remembered.

CALIBRATION:

Calibration Mode is necessary the first time you use the Load Plate and can be used whenever you feel the Load Plate measurements are incorrect (e.g., Ball/Token Counts are off). To enter Calibration Mode, press the rotary knob from the main screen. Once the process starts, there are several points where you can exit without saving. This allows you to back out and start over if you enter Calibration Mode by mistake or feel that you may not have followed the steps correctly. Selecting (N)o will exit the calibration process, while selecting (Y)es will proceed to the next step. After that, selecting (B) or (T) will start the process for Balls or Tokens.

You will be asked to Tare the system. Selecting (N)o will exit to the main screen, while selecting (Y)es will start the Tare process. To simplify the Tare process and calculations, we recommend using the included 100-ball tray for balls and a bare Load Plate for tokens. For balls, start with the empty 100-ball tray, which will zero the load plate with the tray in place. For tokens, use an empty Load Plate. Select (Y)es to continue when you're ready.

The 2 calibration modes effect each other so always perform the Ball Calibration First then perform the Token Calibration, If you do not plan to perform token counting then you may skip the token calibration.

Ball Calibration:

If you are using the included 100-ball tray, place 100 Pachinko Balls into the tray for the calibration steps. Next, use the rotary knob to enter the value. With 100 Pachinko Balls in the tray, the value to select/enter is 540.0 grams (Default Setting). If not enter the value of your known mass.

After entering the value, press the rotary knob to continue.

if you want to accept the value returned press (Y)es and the values will be saved, if you select (N)o the value will be reverted to the previous value. Calibration is now complete, and the new calibration value will be written to EEPROM. This value will be used immediately and automatically loaded the next time the system starts up.

Token Calibration:

After the Tare is completed, you will start the calibration process for tokens. When calibrating for Tokens we recommend that you pick a random 15 to 25 tokens to use as a sampling, you can use up to 100 tokens for your sample. Token weight varies due to the amount or wear on the tokens. Once you have placed your token selection on the bare Load Plate enter the number of tokens with the rotary dial.

The system will perform an averaging on the tokens and calculate the required value for the token counting algorithm. And when it completes it will return to the home screen.

Care And Cleaning

Please only use a light spray of household cleaner (such as Windex) or water on a lint-free towel to wipe the surface clean. Do not wet the counting device, as it is neither water-resistant nor waterproof. When not in use, turn the power switch off to conserve energy.

Final Notes:

There is a limit to what the Load Plate can handle. The Load Cell is rated at 20 kg, but we recommend keeping it below that. For reference, 3,000 Pachinko balls equal approximately 16.2 kg, and 3,000 Tokens is approximately 15.6 kg. The 20 kg limit is approximately 3,700 pieces. Tokens are slightly lighter than balls but can vary largely based on brand and wear.

Firmware updates will be able to be performed by the end user as we create enhancements and bug fixes. A simple download and a hex file will be required. As updates become available, we will update the user base.

Thank you,
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