



User Guide

AB5200

**Bank Grade Bill Counter
with Dust Cover**



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**Thank you for trusting *AccuBANKER*
with your cash handling needs.**

**In order to optimize the performance of your
equipment, we encourage you to thoroughly read
this user guide prior to use.**

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Introduction

The AB5200 banknote counter is the perfect solution for a fast, accurate, and reliable counting process. This machine is designed to meet the most demanding applications in today's financial market.






Some of the most remarkable features this model offers are:

- a. Includes an external display that allows the client to visualize the operation
- b. Automatic dust cover protects the operator during the unit's operation
- c. Variable counting speed at 600-1000-1200-1900 bills/min





This User Guide will allow you to get familiar with all the details related to the unit's operation. We recommend reading this guide thoroughly before operating the unit and keep it for future references.

1. Safety Instructions

Warning

	Do not use this product in areas where it may be exposed to water or other liquids.
	Unplug this product from the electric outlet before cleaning. Do not use liquid or aerosol cleaners. To clean, use a damp cloth.
	To reduce the risk of electric shock, do not disassemble this product. Take it to qualified service personnel when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
	Only use the cable provided with the unit. The use of other cables may result in electric shock, fire, or cause serious damage to the unit.
	Do not operate the unit in areas with high temperature or high humidity since it may prevent it from working correctly.

Caution

	When unplugging the power cord, do not pull it by the cord, but rather grip the plug to pull it out. Not following these instructions may result in electric shock, fire, or damage to the unit.
	Do not use the unit if the power cord is damaged or if the plug socket contact is loose. Not following these instructions may result in electric shock, fire, or other hazards.
	Do not place heavy objects over the cord and do not bend it excessively since it could get damaged. Not following these instructions may result in electric shock, fire, or other hazards.
	When not using the unit for a long time, remove the power plug from the electric outlet.

1. Safety Instructions (continued)

- Follow all warnings and instructions marked on the unit.
- This product is meant to be operated in an indoor environment with proper ventilation.
- Do not place near direct sunlight, heat sources, or air conditioners.
- This product should only be operated with the power cord supplied and the type of power source indicated in this user guide. If you are not sure of the type of power supply in your location, consult your vendor or local power company.
- To avoid the risk of fire or electric shock, never push objects into the unit through the case slots or openings, since they may touch dangerous voltage points or shortcut parts. Do not disassemble the unit.
- Never spill liquids of any kind on the product.
- Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power supply cord or plug is damaged or frayed*
 - If liquid has been spilled into the unit, or it has been exposed to rain or water*
 - If the product has been dropped or the case has been damaged*
 - If the product shows a noticeable change in performance

*Not covered under warranty

NOTE: Do not remove the "ground" prong from the power cord. It is a safety feature meant to protect the user from harm and the equipment from damage.



If the unit does not operate normally while following the instructions, adjust only those controls covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

2. Installation

A) Unpacking the unit

After unpacking the unit, store the box and the packing material for future shipping. Failing to ship the unit in its original unit box and styrofoam will void the unit's warranty.

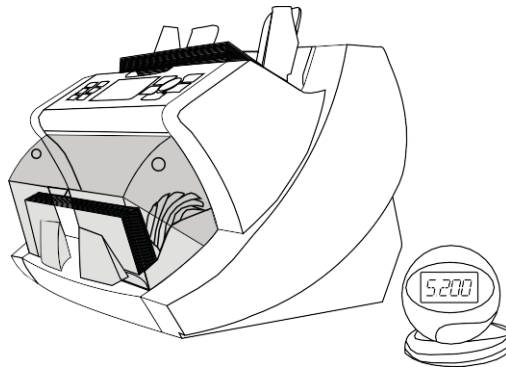
B) Installation

Select an appropriate workspace and make sure it is clean, flat, and leveled. The unit should never be placed near or over a radiator, heater register, or close to a strong source of light.

Voltage operation range: 100 - 240VAC 60/50 Hz

Plug the power cable to the back of the unit and into the electric power outlet. Turn the unit on and verify it is working. In case of any functioning problems, contact your provider immediately.

Note: When replacing fuses, make sure to use the same type and rating.



3. Getting Started

3.1 Bill Selection / Placement

- A. Avoid counting wet, excessively dirty, folded, or damaged bills.
- B. Check for foreign objects mixed up with the bills such as paper clips, rubber bands, pieces of paper, etc.



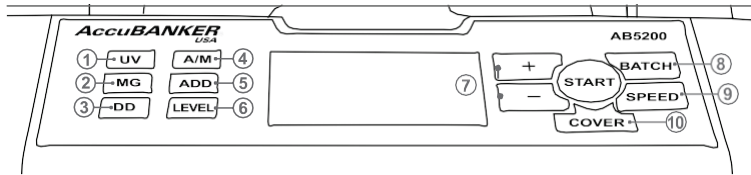
- C. If counting new bills, fan them lightly since they often stick together.



- D. Position the bills in an orderly manner on the hopper tray to ensure an error-free operation.

4. Equipment Overview

4.1 Control Panel Description



- **UV:** Ultraviolet Verification On/Off
This function allows the unit to analyze the ultraviolet characteristics of each bill during the counting. The unit will stop counting in case a bill is considered suspicious.
The UV sensitivity can be adjusted by the user from 1-9.
- **MG:** Magnetic Verification On/Off
This function allows the unit to analyze the magnetic characteristics of each bill during the counting. The unit will stop counting in case a bill is considered suspicious.
The MG sensitivity can be adjusted by the user from 1-9.
- **DD:** Bill Size Verification (Width) On/Off
This function allows the unit to analyze the size (WIDTH) of each bill during the counting. The unit “memorizes” the width of the first bill counted, then uses it as a reference to compare it with the rest of the bills. The unit will stop counting when a bill of a different size is found.
The DD sensitivity can be adjusted by the user from 1-9.
- **A/M:** Automatic or Manual starting mode.
The unit begins counting automatically when banknotes are placed in the hopper. To manually control this action, change to MNL (manual) mode.

4. Equipment Overview (continued)

4.1 Control Panel Description (continued)

- **ADD:** Adding function On / Off.
This function allows the unit to add up all the consecutive operations made when this function is ON.
- **LEVEL (IR):** Adjust the emission intensity of the counting sensors.
- **+ / - :** Used to set up batches manually to different preset quantities. Just select the nearest preset quantity, then use keys “+ / - “ to set up the desired manual batch quantity.
Also used to adjust the counting functions as well as the Sensitivity of the counterfeit detection functions.
- **BATCH:** Preset batch selection
By pressing the BATCH button sequentially, the preset batch value will change among 5, 10, 25, 50, 100, 200, or off.
- **SPEED:** By pressing the SPEED key sequentially, the user can select the desired counting speed from 600-1000-1200-1900 bills/min.
- **COVER:** Enable or Disable the dust cover mechanism. In the Enable status, the cover will open and close automatically during the counting operation.

4. Equipment Overview (continued)

4.2 Sensitivity Adjustment of the Counterfeit detection functions, (MG-UV-DD-LEVEL)

The user has the option to adjust (increase or decrease) the sensitivity of the counterfeit detection functions based on their specific needs and the bills' condition.

To modify these setting values, press and hold the specific function for 3 seconds until the display shows the current value for the selected function. Next, proceed to INCREASE or DECREASE the current value using the + & - keys until reaching the desired sensitivity value. Press START to validate the selection and return to counting mode.

The sensitivity can be adjusted from 1-9 where 1 is the lowest sensitivity and 9 the highest sensitivity.

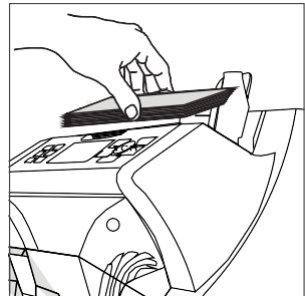
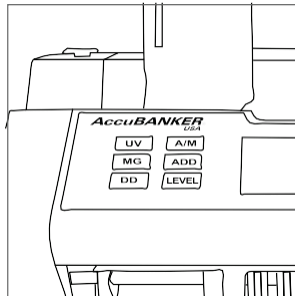
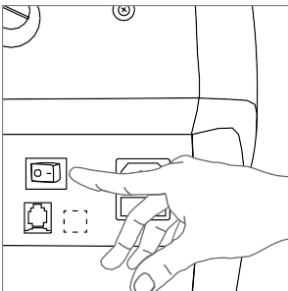
NOTE: If the unit is reporting error messages related to the UV, and MG functions (UUE or MGE) often, verify the sensitivity settings for these functions in case they are too high. That could affect the unit's performance.

5. Operation

5.1 Counting Operation

- Turn the unit ON.
- The unit will proceed with a Self-Test routine to confirm the proper operation before starting the count. If any error is reported, check the **ERROR MESSAGES** section to solve the problem.
- Select the desired verification functions to use (MG-UV-DD) based on the security features encountered on your currency.
- Set up the rest of the options like **SPEED**, **COVER**, and **BATCH** based on your own needs.
- Place the bills orderly in the hopper and the unit will start counting them automatically.

NOTE: If the unit is in **MANUAL** mode, press **START** to begin counting.



5. Operation (continued)

5.2 Miscounting errors

If the unit is not counting accurately:

- Ensure that the banknotes are placed orderly in the hopper.
- Clean the dust or any other kind of dirt from the counting sensors.
- Evaluate the bill thickness. Adjust the mechanism as needed to improve the unit's performance.
- If MG errors or UV errors are reported often, proceed to verify the sensitivity, and consider reducing them in case the sensitivity is too high.

5.3 Setting the unit up for counting Polymer bills

- Press and hold the ADD key and turn the unit ON. The unit will boot up in the Settings Menu.
- Press the BATCH key sequentially until reaching the P 10 (Ho) parameter.
- Use the “+” key to set it up to Ho-1 for counting Polymer bills or use the “-” key to set it up to Ho-0 if necessary.
- Press START to save the change and return to the counting screen.

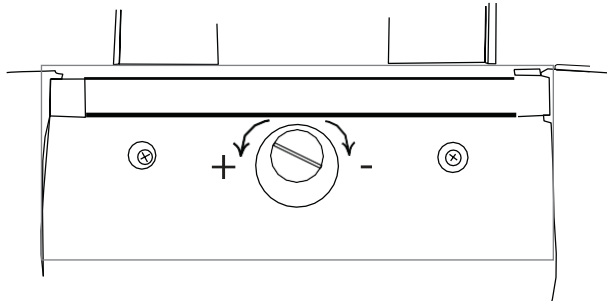
NOTE: Polymer bills with transparent windows might provoke counting errors depending on the location of the transparent windows inside the bill.

5. Operation (continued)

5.4 Thickness Knob Adjustment

Proceed with this calibration when the bills are not fed smoothly through the machine or miscounting errors are occurring frequently.

- The Thickness Adjustment Knob is set at 0 (at the center). This is the standard setting from the factory.
- Having the correct thickness adjustment knob position will ensure a smooth counting as well as a trouble-free operation.
- Trial and error attempts are recommended before you make the final adjustment.
 - a. For new (thinner) bills, adjust toward "-" to reduce the gap.
 - b. For used (thicker) bills, adjust toward "+" to increase the gap.
 - c. Small adjustments towards the "+" direction work best.



5.5 Emergency Stop button

The emergency stop button is a safety feature that immediately stops the equipment from performing any operations when pressed.

If the emergency button is pressed, the equipment must be turned OFF and ON again to resume the counting operation.

6. Warning and Error Messages

The unit might report any error message to notify the operator about an incident or anomaly during the counting. This table shows a summary of the possible error messages.

ERROR	CAUSE	SOLUTION
UUE	Suspicious UV feature	<ul style="list-style-type: none">- Remove the suspicious bill- Reduce the UV sensitivity
mgE	Suspicious MG feature	<ul style="list-style-type: none">- Remove the suspicious bill- Reduce the MG sensitivity
CHE	Two or more bills passed closely together	<ul style="list-style-type: none">- Adjust thickness adjustment knob- Verify the bill's fitness quality
dbL	Two or more bills passed together	<ul style="list-style-type: none">- Fan the bills- Adjust thickness adjustment knob
ddE	Check the size of the bill (width)	<ul style="list-style-type: none">- Verify the specific bill- Reduce the DD sensitivity
HalF	Check for a mutilated bill	<ul style="list-style-type: none">- Remove the specific bill
Stop	The emergency stop is activated	<ul style="list-style-type: none">- Turn the unit OFF and ON again
EA0	Left counting sensor problem	<ul style="list-style-type: none">- Clean the sensor- Get in contact with tech support
EA1	Right counting sensor problem	<ul style="list-style-type: none">- Clean the sensor- Get in contact with tech support
EA2	Stacker sensor problem	<ul style="list-style-type: none">- Clean the sensor- Get in contact with tech support
EA3	Speed sensor problem	<ul style="list-style-type: none">- Get in contact with tech support

7. Specifications

Variable Counting Speed: 600, 1000, 1200, and 1900 notes/min

Feeding System: Roller Friction System (Front-loading)

Hopper Capacity: 300 bills (good fitness condition)

Stacker Capacity: 200 bills (good fitness condition)

Banknote size range: 4.53 x 1.97 – 6.70 x 3.35 in.

Display: High-Resolution LCD Display

Power Source: 100 - 240 VAC 60/50 Hz

Power Consumption: < 50 Watts in operation / 2 W (standby)

Weight: 12 lb (5.4 kg)

Size (W x D x H): 10.5" x 9.7" x 9.5" / (26.6 x 24.6 x 24) cms

Ambient Temperature: 32°F - 104°F (0 C - 40 C)

Ambient Humidity: 25% - 80%



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