AccuBANKER®

User Guide

AB5800

Bank Grade Bill Counter with Batch Value

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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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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.

Safety Instructions (cont.)

- Read and understand all of the safety instructions.
- 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.

1. Introduction

The AB5800 bill counter is the perfect solution for a fast, accurate, and reliable banknote counting process. This machine is designed to meet the most demanding applications in today's financial market.

A simple and friendly user interface, as well as its Value Extension function capability, will help save you time and money during the closeout process.

Among the most significant features this model offers are:

1- Manual Value Extension function: allows the user to obtain the total value of a batch for a selected denomination and the grand total value of all the batches counted
2- Reliable, Fast, Versatile, and Easy operation
3- Long-lasting Control Panel designed with hard keys
4- Variable counting speed at 1200-1500-1800 bills/min
5- Includes an external display

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 keeping it for future reference.

2. Getting Started

2.1 Receiving the Unit

Keep the original box as well as any packaging and accessories in case you need to return the unit. If you do not follow these guidelines, and the unit is damaged in transit, the product warranty may be voided.
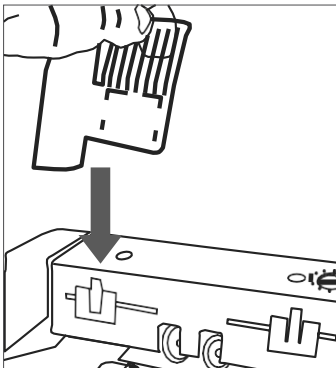
2.2 Installation

Select an appropriate workspace that is clean, flat, and leveled. The equipment should never be placed near strong sources of light, heat sources, or air conditioners. Please do not install the equipment where its weight cannot be supported.

Plug the power cable to the back of the bill counter and into the wall power outlet. Turn the equipment on.

2.3 Bill Guider Installation

Proceed to install them as follows:

1. Align the guider with the latch mechanism in the bill counter.
2. Insert the guider into the latch until a "click" sound is heard. This means the guider has locked into place.
3. Repeat this process with the other guider.
4. To remove the guider, push it while pulling it out from the latching mechanism.

2. Getting Started (cont.)

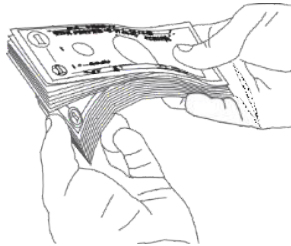## 2.4 Bill Selection / Placement

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.
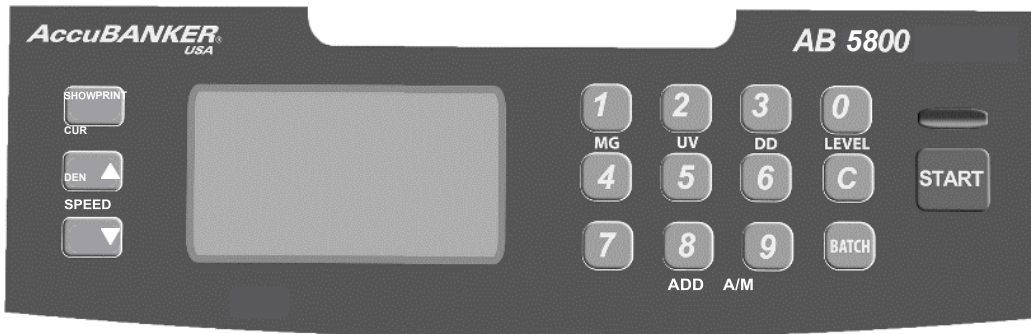
3. Equipment Overview

3.1 Part Description

1. **Bill Guiders:** Aligns the bills to be counted
2. **Hopper Sensor:** Senses when bills are on the hopper tray
3. **Emergency Stop Button:** Stops the counting operation instantly
4. **Hopper Tray:** Bills are placed here to be counted
5. **Display / Control Panel:** Controls counting operation functions
6. **Stacker Sensor:** Senses counted bills
7. **Stacker Tray:** Counted bills are collected here
8. **Carry Handle:** Used to carry/transport the equipment
9. **Feeding Gap Adjustment Knob:** Adjusts the width of the opening from the hopper tray to the feeding channel
10. **Serial 1 Port:** Printer port/ Software updates
11. **Serial 2 Port:** Auxiliary Display port
12. **USB Port:** Updates installation / Technical Service
13. **On / Off Switch:** Used to turn the bill counter ON & OFF
14. **Power Jack:** Used to connect the power cable

3. Equipment Overview (cont.)

3.2 Control Panel Description

- **SHOW / PRINT (AccuBANKER Thermal Printer not included, sold separately)**: Used to show the count details when the Value Extension function is used or to print a receipt detailing a breakdown by denominations counted.
  - **SHOW** function is activated when the key is pressed for 3 seconds (long press). The screen will show a breakdown detailing the quantity of bills for every denomination counted. Use the "UP" or "DOWN" arrows keys to scroll through the list. The TOTAL line will display the total count result.
  Press START to go back to the main counting screen and continue with the counting operation.
  Press C to clear the current count information and start a new count.
  - **PRINT** function is activated by tapping this key. The thermal printer will print a receipt with the same breakdown information shown on the screen. The display will show the message "PRINTING" as the receipt is being printed. If a second receipt is required, tap the PRINT key again.
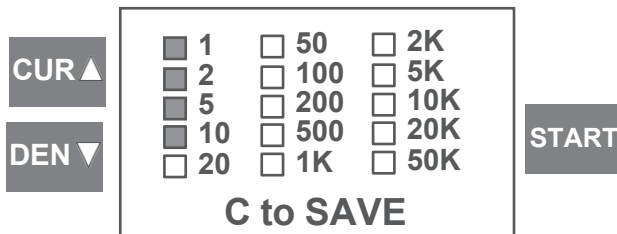
3. Equipment Overview (cont.)

3.2 Control Panel Description (cont.)

- **CURR:** Press CURR repeatedly to select the desired currency to COUNT. The default options are USD-EUR-MXN-CAD-LOCAL. This key is also used to "SCROLL UP" the cursor during the SHOW view.

LOCAL DENOMINATIONS CONFIGURATION

a. LOCAL CURR can be configured and customized for a specific denomination value.
b. Press CURR repeatedly (short press) until the screen shows "LOCAL".
c. Keep the CURR key pressed for 3 seconds until the screen shows all the denominations available.
d. Use the "UP" & "DOWN" keys to scroll through the list.
e. Then use "START" to activate or deactivate any specific denomination.
f. Proceed to activate all the desired denominations. When the "check box" is "WHITE", this denomination is already active.
g. Press "C" to save the selection and return to the counting screen.

CUR ▲	■ 1 □ 50 □ 2K	
	■ 2 □ 100 □ 5K	
	■ 5 □ 200 □ 10K	START
DEN ▼	■ 10 □ 500 □ 20K	
	□ 20 □ 1K □ 50K	
	C to SAVE	

3. Equipment Overview (cont.)

3.2 Control Panel Description (cont.)

- **DEN / SPEED:** Press the DEN key to activate the Value Extension function. Pressed repeatedly, it will show all the denominations available for that currency. This key is also used to "SCROLL DOWN" the cursor during the SHOW view.

<table>
<tr><td></td><td>UV MG
AUTO</td><td></td><td>USD</td></tr>
<tr><td>DEN ▼</td><td></td><td>DEN</td><td>$1</td></tr>
<tr><td></td><td></td><td>0</td><td>PCS</td></tr>
<tr><td>SPEED</td><td>TOTAL</td><td>$0</td><td></td></tr>
</table>

- **SPEED selection**
  The counting speed can be changed by the user pressing DEN for 3 seconds sequentially (long press) until reaching the desired speed. Press START to confirm the selection and go back to the counting screen.
  ** When the highest speed (1800 bill/min) is chosen, the MG function is not available to be selected by the user**.
  For Polymer bills (MXN & CAD currencies) the speed available is only 1200 bills/min to ensure the accuracy of the counting result.

- **MG:** Magnetic Verification On/Off
  Allows the unit to analyze the magnetic features of each bill during the count. The unit will stop counting if a bill is considered suspicious. The MG sensitivity can be adjusted by the user from 1-9.
  When the MG function is active, the highest speed (1800 bills/min) is not available to select.

3. Equipment Overview (cont.)

3.2 Control Panel Description (cont.)

- **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 if a bill is considered suspicious. The UV sensitivity can be adjusted by the user from 1-9.

- **DD:** Bill Size Verification (Width) On/Off
  The unit will "memorize" the width of the first bill scanned and will compare the rest with it. The unit will stop counting if a bill with a different size is detected. The DD sensitivity can be adjusted by the user from 1-9.
  This function is only applicable for those currencies that have a different width/size for every denomination, like EURO
  It is highly recommended to activate DD when counting POLYMER bills like CAD or MXN

- **LEVEL:** Allows the adjustment of the emission intensity of the counting sensors. It can be adjusted from 1-9.

- **C key:** Clear counting data / go out of Value Extension mode.
  Used to clear (delete) the counted data from the display.
  Press C twice to go out from the Value Extension mode and go back to the standard counting mode.

3. Equipment Overview (cont.)

3.2 Control Panel Description (cont.)

- **BATCH:** Preset batches selection
  By pressing the BATCH sequentially, the preset batch value will change among 5, 10, 25, 50, 100, 200, or Off.

- **START:** While in SHOW mode, START is used to go back to the counting screen. While in MANUAL mode, START is used to start or stop the counting operation. START is used also to accept and confirm batch selection as well as security functions sensitivities

- **Numeric Keys:** For setting up batch sizes manually, just enter the desired batch quantity. Used also for the security functions sensitivity adjustment.

- **A/M:** Automatic or Manual starting mode.
  The counting begins automatically when the bills are placed in the hopper. To manually control this action, change to MNL (manual) mode, then pressing the START key will begin the counting operation.

3. Equipment Overview (cont.)

3.2 Control Panel Description (cont.)

- **ADD:** Adding function On / Off.
  This function allows the unit to add up all the consecutive operations made with the ADD activated.

NOTE: ADD function plays an important role if you want to count several denominations that belong to the same transaction and want to obtain the final amount of money involved in the counting. Just activate the ADD function and select the specific denomination to count one at a time.

This example shows a counting that includes $1-10pcs / $5-10pcs & $10s-10pcs in the same transaction.

UV MG AUTO USD DEN $1 10 PCS TOTAL $10	**DEN ▼** SPEED
UV MG AUTO USD DEN $5 20 PCS TOTAL $60	**DEN ▼** SPEED

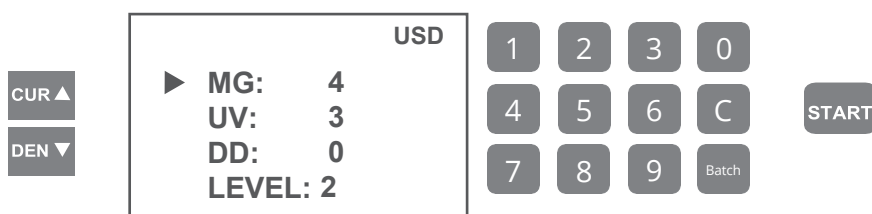|	
UV MG AUTO USD DEN $10 30 PCS TOTAL $160	**Show** **Print**
DEN PCS $ $1 x10 pcs =10 $5 x10 pcs =50 $10 x10 pcs =100 $20 x 0 pcs =0 TOTAL 30 pcs $160	

3. Equipment Overview (cont.)

3.3 Functions Detection Sensitivity Adjustment (MG-UV-DD-LEVEL)

The user has the option to adjust (increase or decrease) the sensitivity of the detection functions based on their specific needs. The sensitivity can be adjusted from 1-9, where 1 is the lowest sensitivity and 9 the highest sensitivity to adjust.

To modify the setting values, keep pressing down the desired security function for 3 seconds until the display shows the current sensitivity value this function has. Use the numeric keypad to select the new value to set up, then press START to validate the selection and return to the counting mode.

NOTE: In case the unit frequently reports error messages, related to any security feature (MG - UV - DD), consider verifying the current Sensitivity setting for these functions. They might be too high for the current notes that are being counted.

3. Equipment Overview (cont.)

3.4 Display Brightness adjustment

The user might need to adjust (increase or decrease) the screen brightness to make it easier to read the screen.

- Press key # "7" (for 3 seconds) to enter into the BRIGHTNESS menu.

- Press the "CURR" button sequentially to increase or "DEN" to reduce the display brightness until reaching the desired value.

- Press START to validate the selection and return to count mode.

4. Operation

4.1 Counting Operation

- Proceed to turn the unit ON.
- The unit will proceed with a short Self-Test routine to confirm the proper operation of all its modules before starting the count. If any error is reported, check the ERROR MESSAGES section for a solution to the problem.
- Select the desired verification functions to use (MG-UV-DD etc.) based on the security features of your currency.
- Set up the rest of the options like SPEED, BATCH, etc. 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 set to MANUAL, press START to begin the counting operation.

4.2 Miscounting errors

In case the unit is not having an accurate counting operation, proceed as follow:
- Ensure that the banknotes are placed orderly in the hopper.
- Check the counting sensors for dust or any other kind of malfunctioning source.
- Verify the bill thickness adjustment mechanism (feeding gap) in case it needs to be re-adjusted for improving the unit performance.
- If MG, UV, or DD error messages are reported frequently, proceed to verify the sensitivity of the function and consider reducing them in case the current sensitivity value is too high.

4. Operation (cont.)
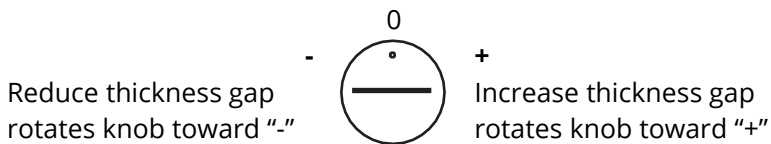
4.3 Thickness Knob Adjustment (Feeding Gap)

Proceed with this calibration when the bills are not fed smoothly through the machine or miscounting errors are occurring frequently.
Other reasons that might require readjusting the feeding gap are:
- The counting of new or mint condition bills
- The counting of poor or bad fitness condition bills

Having the correct thickness adjustment knob positioning will ensure a smooth counting as well as a trouble-free unit's operation. Trial and error attempts are recommended before you make the final adjustment.

a. for new (thinner) notes, adjust toward "-" to reduce the gap
b. for used (thicker) notes, adjust toward "+" to increase the gap
c. small adjustment toward "+" direction works best
d. polymer bills might require to reduce the gap for ensuring a good counting result

0

-　Reduce thickness gap　　　　　**+**　Increase thickness gap
rotates knob toward "-"　　　　　　rotates knob toward "+"

4.4 Emergency Stop button

The emergency stop button stops the unit operation immediately in case any incident occurs. The unit requires to be turned OFF and ON again to resume the counting operation.

Be aware to not press the Emergency button by accident during the normal operation with the unit.

5. Warning and Error Messages

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

ERROR	CAUSE	SOLUTION
UV Alarm	Suspicious UV feature	- Remove the suspicious bill - Consider reducing UV sensitivity
MG Alarm	Suspicious MG feature	- Remove the suspicious bill - Consider reducing MG sensitivity
Chain Error	Two or more bills passed together (partially overlap)	- Adjust thickness adjustment knob - Verify the bill's fitness quality
Double Note	Two or more bills passed together (one on top other)	- Fan the bills - Adjust thickness adjustment knob - Consider reducing LEVEL sensitivity
DD Alarm	Check the size of the bill (width)	- Verify the specific bill - Consider reducing DD sensitivity
Half Error	Check for a mutilated bill	- Remove the specific bill
Reset Unit	The emergency stop is activated	- Turn the unit OFF and ON again
Hopper Sensor Error	Hopper sensor problem or bills in the hopper	- Clean the hopper sensor - Contact technical support
Stacker Sensor Error	Stacker sensor problem or bills in the stacker	- Clean the stacker sensor - Contact technical support
Count Sensor R	Right counting sensor problem	- Clean the sensor - Contact technical support
Count Sensor L	Left counting sensor problem	- Clean the sensor - Contact technical support

NOTE: If/When replacing fuses, make sure to use the same type and rating as the one that came with the equipment.

6. Specifications

Temperature	32° - 104°F (0° - 40°C)
Humidity	25% - 80%
Display	LCD
Counting Speed (new bills)	1,200 bills/minute 1,500 bills/minute 1,800 bills/minute
Feeding System	Roller Friction System
Feeding Type	Front-loading
Hopper Capacity	400 bills (new bills)
Stacker Capacity	200 bills (new bills)
Power Source (INPUT)	100 - 240 VAC 60/50 Hz
Power Consumption	30 Watts Max. (3 Watts Standby Max.)
Accepted Banknote Type	Paper, Polymer, etc.
Accepted Banknote Dimensions (L x W)	4 x 1.97 - 7 x 3.11 in 10.2 x 5 - 17.8 x 7.9 cm
Printer	MP20 Printer Compatible (Sold Separately)
Thermal Printer Paper Dimensions	Dimension: 2.25" x 125' Max. Core Diameter: 0.5"
Product Dimensions (L x W x H)	10.4 x 9.6 x 10 in (26.3 x 24.5 x 25.5 cm)
Product Weight	13.9 lb (6.3 kg)

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