



User Guide

AB7500

**Enterprise Dual Pocket
Mixed Bill Value Counter**



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1. Introduction

The AB7500 is an Enterprise Dual Pocket Mixed Bill Value Counter designed to accelerate the cash counting process. When it detects a suspicious bill, it sends the bill directly to the rejection pocket which creates a faster and seamless operation. The final count result shows the total value as well as the number of bills counted.

2. 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.

2. 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*

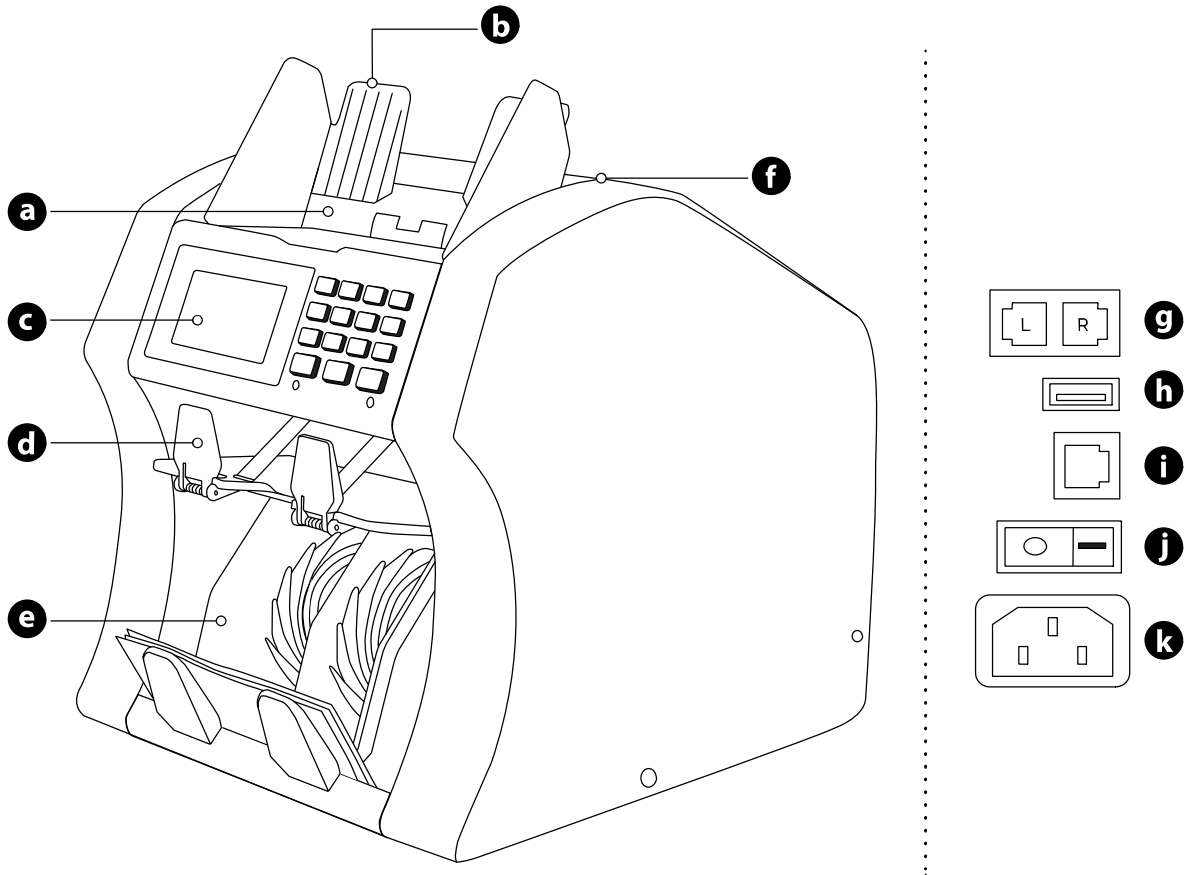
NOTE: Do not remove the "ground" prong from the power cord. It is a safety feature meant to protect the user from harm and the equipment from damage.



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.

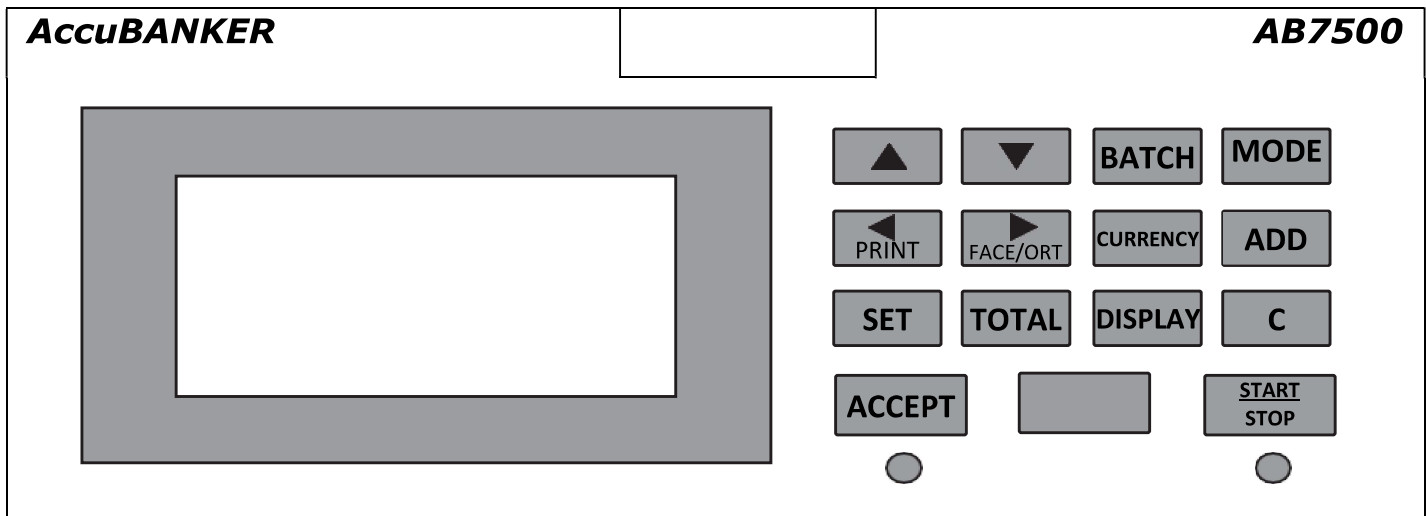
3. Equipment Overview

3.1 Part Description



3. Equipment Overview (cont.)

3.2 Control Panel Description



Up / Down / Left / Right BUTTONS

Used to move the cursor in the configuration menu.

IMPORTANT: When there are bills in the rejection pocket, press  to see why a bill was rejected. A rejection code will appear on the screen. For a brief description of what each code means, see Section 5.

BATCH

Select the desired batch quantity (5-10-20-25-50-100-200).

MODE

MDC- Mixed: Used for counting mixed denominations all together.

SDC- Sort: Memorizes the first denomination counted and all others will be rejected; only the denomination counted first will be accepted by the machine.

CNT- Count: basic bill count; counts the number of bills but does not calculate the total count value. Used for currencies not programmed on the unit.

3. Equipment Overview (cont.)

3.2 Control Panel Description (cont.)

PRINT

Prints detailed count reports.

FACE/ORT

Organizes the bills FACE UP, FACE DOWN, LEFT, or RIGHT.

CURRENCY

Used to change the currency that will be counted.

ADD

Activates ADDING function.

TOTAL

Shows the TOTAL VALUE COUNT.

DISPLAY

Displays the breakdown details of the count.

C

Erases data on the screen or erases error messages.

ACCEPT

Confirms any changes made to the "Configurations" screen as well as count results.

START / STOP

Starts and stops counting operations.

SET

Enters the "Configurations" menu. Keep the key pressed down for 6 sec.

4. Configurations Menu Description

The user menu allows the operator to configure the unit based on their working preferences. The different points to be defined are described below:

- a- Press the SET key until the menu appears on the screen.
- b- Use the “direction” keys to select and change the parameters.
- c- Always press “ACCEPT” to save each change made.
- d- Press C (one or more times) to exit the User Menu.

REJECT LED

Used to activate/deactivate the notification light of the machine's rejection pocket.

CURRENCY SELECT

Used to activate/deactivate currencies programmed into the unit.

DEFAULT

Restores unit to its original factory settings.

DUAL USAGE: NOT AVAILABLE.

AUTO-START

Used to set the unit to MANUAL start mode, or to vary the machine's start time after the first bills are detected by the Hopper sensor.

REPEAT START

Used in BATCH mode to set the unit to AUTO / MANUAL mode during the batching process.

BUZZER

Used to Activate / Deactivate the notification buzzer when working with the unit's keypad.

4. Configurations Menu Description (cont.)

OFF LCD LIGHT

Enables / Disables the display standby function when the unit is not in use for long periods of time.

MODE KEY SWITCH

Used to select the operation mode (MDC, SCD, or CNT).

SPEED

Allows varying the counting speed of the machine between 800/900/1000 bills/min. The speed variation applies only to CNT mode.

REJECT FULL

To set the maximum amount allowed in the rejection pocket; Once this quantity is reached, the unit stops (25/50/75/100).

REJECT CHECK

When this function is enabled (ON), the unit automatically stops when at least one bill enters the rejection pocket and requires to be removed to continue the counting.

CNT MODE

Enables / Disables the CNT (basic count) mode.

CNT CF CHECK

Enables / Disables the verification of banknote security features in CNT (basic count) mode.

ASSIGN OPERATOR: NOT AVAILABLE.

4. Configurations Menu Description (cont.)

CURRENCY CF

In this section, the operator configures the sensitivity of the detection sensors of the various banknote security verification functions.

- DD: Bill Size Detection
- DB: Double Bill Verification
- UV: Ultraviolet Detection
- MG: Magnetic Detection
- MT: Metal Thread Detection
- IR: Infrared Detection

With the   keys select the specific denomination to configure. Press ACCEPT to display the functions menu for that specific denomination. Use the   keys to change the sensitivity to the desired value. Press ACCEPT to save the changes made.

MANUAL INPUT

Enables / Disables the option to save a certain count in the unit's memory (Grand Total option).

PORT L MODE / PORT R MODE

Set the L (left) or R (right) port function to be connected to a computer (TERMINAL) or to be connected to a printer (PRINTER).

PORT L RATE / PORT R RATE

Configures the communication speed of the serial port (9600/19200/38400/115200).

- PRINTER: Data bits: 8 / Stop bits: 1 / Parity: None.
- TERMINAL (PC): Data bits: 7 / Stop bits: 1 / Parity: None.

4. Configurations Menu Description (cont.)

CIS SELECT

Activates / Deactivates the CIS sensor in CNT mode (basic counting).

SELECT DIGIT

Allows operator to select the format in which to separate the digits on the display or during printing.

EXTERNAL DISPLAY

Activates / Deactivates external display's connection.

TIME CHECK

Allows operator to configure the unit to the date and time desired.

STACKER FULL

Allows operator to set the maximum capacity of the stacker
OFF/100/200.

ADD FUNCTION (SDC mode)

During operation in SDC mode, with ADD function active, the user can select manual or automatic operation. In both operations, if there is a specific denomination in the stacker, and the user tries to count a different denomination, it will be rejected. The user must remove the bills from the stacker to proceed with a new denomination.

- Manual: When the user removes the bills of the current denomination from the stacker, the new denomination will be counted and added to the previous count unless the clear button is pressed.
- Automatic: When the user removes the bills of the current denomination from the stacker, the new denomination will be counted and the previous count will clear (will start from zero).

4. Configurations Menu Description (cont.)

BATCH FUNCTION (MDC mode)

During operation in MDC mode with the BATCH function active, the total accumulated value can be set to return to ZERO (this restarts the count for every batch) or ADD (this sums the total amount of all batches counted) every time the selected grouping quantity is reached. If this option is set to ZERO and the ADD function is activated then the setting will not apply.

PRINTER CONTROL (PRINTER sold separately)

- MANUAL: Press the PRINT key to print.
- AUTO 1: Prints automatically every time the stacker is emptied.
- AUTO 2: Prints automatically each time the hopper and stacker are emptied (both).
- REPEAT: 2- Duplicates the printout / 3- Triplicates the printout.
- LINES: Number of blank lines after each printed item.
- LIST: Shows in the printing all denominations, or only the denominations detected in the count.

5. Bill Rejection Codes Descriptions

During the count, suspicious bills are rejected directly into the rejection pocket. To determine the specific cause of rejection, simply press the  key and the display will show the rejection details using the following error codes described below:

- TYPE 1: Communication failure between Image Software and Control Software.
- IMAGE: The CIS was unable to identify the rejected bill.
- MT: Rejected for suspicious Metal Thread.
- UV: Rejected for suspicious Ultraviolet.
- MG: Rejected for suspicious Magnetic Ink.
- IR: Rejected for suspicious Infrared.
- DOUBLE: Rejected because two bills passed stuck together.
- CHAIN: Chaining problems (adjust the gap thickness screw).

NOTE: When a unit reports multiple CHAIN events, the thickness calibration must be checked before taking other measures. Poor thickness calibration also affects the unit in other aspects of its operation.

6. Operation

6.1 Thickness Knob Adjustment (Feeding Gap)

Proceed with this calibration when the bills are not fed smoothly through the machine or several error messages are occurring too often like DOUBLE NOTES, CHAIN, or miscounting errors.

Other reasons that might require readjusting the feeding gap are:

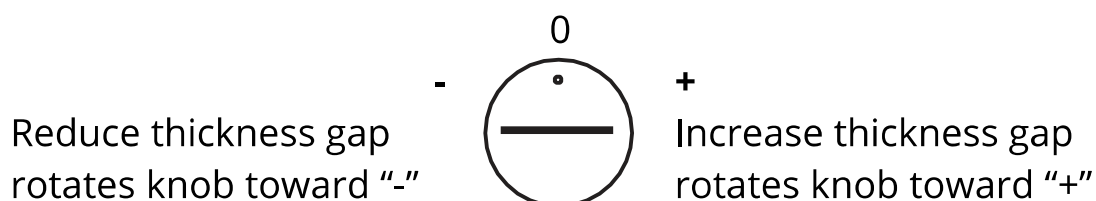
- The counting of new or mint condition bills
- The counting of poor or bad fitness condition bills
- Polymer bills and Paper-made bills counted together

Having the correct feeding gap 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.

NOTE: For new bills, it is recommended to leave the gap narrow. For used and worn bills, it is recommended to widen the gap.

- For new (thinner) bills, as well as Polymer notes, adjust toward "-" to reduce the gap.
- For used (thicker) bills, adjust toward "+" to increase the gap.
- Small adjustments towards the "+" direction work best.

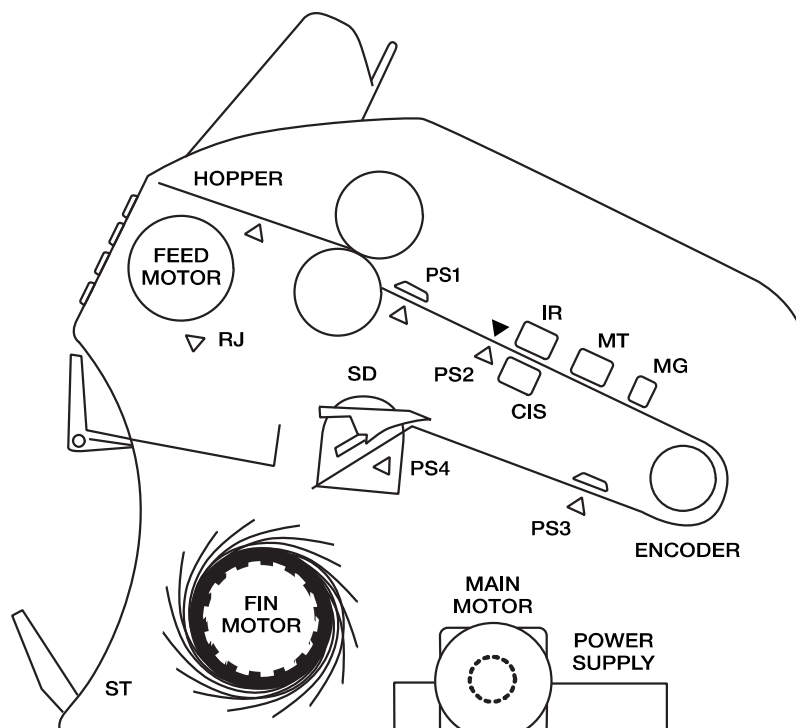


6. Operation (cont.)

6.2 Warning and Error Messages

Error messages reported during unit's operation:

ERROR	CAUSE & SOLUTION
SKEW	Bill entered skewed.
TYPE 2	Rejected because BATCH is full.
REJ DENO	Rejected by denomination.
JAM PS1	PS1 Sensor obstructed, open-top cover and remove the jammed bill, press C to continue.
JAM PS2	PS2 Sensor obstructed, open-top cover and remove the jammed bill, press C to continue.
JAM PS3	PS3 Sensor obstructed, open-top cover and remove the jammed bill, press C to continue.
JAM PS4	PS4 Sensor obstructed, open-top cover and remove the jammed bill, press C to continue.
JAM CIS	Clean CIS Sensor.



7. Unit Maintenance

Follow the recommendations below to minimize possible errors during the operation of the unit and to extend the life of the unit.

Daily routine: Perform the following steps on a daily basis:

- a. Turn OFF the unit when not in use.
- b. At the end of each work session, use a cloth to remove dust and dirt accumulated during the day.
- c. With the brush, remove the dust accumulated in the exposed optical sensors.

Weekly routine: Perform the following steps on a weekly basis:

- a. Turn OFF the unit and unplug its power cord.
- b. Open the unit's top cover.
- c. Use a brush and a compressed air can to remove dust and debris from the inside of the unit as well as the rollers and transport mechanisms.
- d. Use a clean cloth moistened with alcohol to properly clean the CIS sensors as well as the rollers.

NOTE: *Be careful during the cleaning routine to avoid any damage to the unit, especially the CIS sensors.*

8. Software Updates

Steps to perform software update:

Proceed to update the machine's firmware when new bills are launched by the Central Bank.

1. Copy the update file into a USB memory. The memory capacity must be lower than 32GB.
2. Plug the USB memory into the USB port at the back of the machine.
3. Press and hold down the yellow key on the control panel then turn ON the machine then release the key when the message READ USB DISK is shown.
4. The screen will show the update file copied on the USB then press the key ACCEPT.
5. The screen will show "DOWNLOADING.....1" which means the firmware installation has begun.
6. The installation is completed when the message "SUCCESS" is shown.
7. Turn the machine OFF and ON again and resume counting.

9. Specifications

Temperature	32° - 104°F (0° - 40°C)
Humidity	25% - 80%
Display	LCD
Counting Speed (new bills)	800 bills/minute 900 bills/minute 1,000 bills/minute
Feeding System	Roller Friction System
Feeding Type	Front-loading
Hopper Capacity	600 bills (new bills)
Stacker Capacity	200 bills (new bills)
Rejection Tray Capacity	100 bills max.
Power Source (INPUT)	100 - 240 VAC 60/50 Hz
Power Consumption	75 Watts Max. (8 Watts Standby Max.)
Accepted Banknote Type	Paper, Polymer, etc.
Accepted Banknote Dimensions (L x W)	3.9 x 2 - 7.1 x 3.5 in 10 x 5 - 18 x 9 cm
Printer	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)	11.8 x 14.1 x 14.1 in 30 x 36 x 36 cm
Product Weight	28.00 lb (12.7 kg)