User Guide
Super Dollar Authenticator
D500

Thank you for purchasing this AccuBANKER product.
We recommend reading all information in the user guide
to become familiar with this product.

AccuBANKER®
because your money counts **USA**

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Introduction

The D500 Super Dollar Authenticator is part of our next generation in micro-technology. The streamlined design allows for simple banknote processing. Multiple counterfeit detection functions provided added security.

Important 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 wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
🚫	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 re-assembly 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 correct ly.

⚠ 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 excessivel since it could get damaged. Not follwoing these instructions may result in electric shock, fire or other hazards.
🚫	When not using the unit for a long period of time, remove the power plug from the wall outlet.

Other Safety Considerations

• Read and understand all of the safety instructions.

• Follow all warnings and instructions marked on the unit.

• This product should never be placed near or over a radiator or heater register. This product should not be placed in a built-in installation unless proper ventilation is provided.

• This product should be operated only from the type of power source indicated in this user's guide. If you are not sure of the type of power supply in you location, consult your dealer or local power company.

• Never push objects of any kind into the unit through the case slots or openings, since they may touch dangerous voltage points or shortcut parts, resulting in a risk of fire or electric shock.

• Never spill liquids of any kind on the product.

• Unplug this product from the wall outlet and refer to servicing by 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.

- If the unit has been exposed to rain or water.

- If the unit does not operate normally while following the operating instructions, adjust only those controls that are 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.

- If the product has been dropped or the case has been damaged.

- If the product shows a noticeable change in performance.

Box Contents

When opening the box, verify that all of the items described below are included. If any item is damaged or missing, contact the place where the unit was purchased.

1)

2)

3)
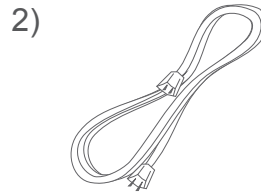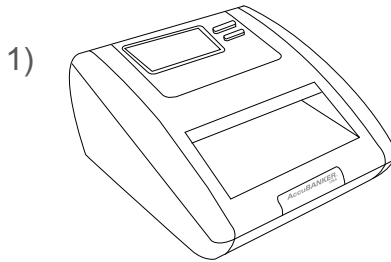
Cleaning of the Machine

> ⚠️ **WARNING: BEFORE DOING ANY CLEANING, TURN THE POWER SWITCH OFF AND DISCONNECT THE POWER CORD FROM THE MACHINE. KEEP IN MIND THAT PROBLEMS OR DEFECTS THAT ARISE FROM LACK OF PERIODIC MAINTENANCE ARE NOT COVERED BY THE WARRANTY.**

A) Cleaning the optical sensors
Cleaning should be performed by an authorized service center.

B) Cleaning the Inside of the Machine Periodically
It is necessary to clean the inside of the machine once a month or when needed. Cleaning should be done by an authorized service center only.

C) Additional Recommendations
Avoid operating the machine in a dusty or dirty room. To guard the machine from the elements always keep it protected when not in use.

1.0 General Controls and Parts

1. Display Screen
2. Function Buttons
3. Input Tray
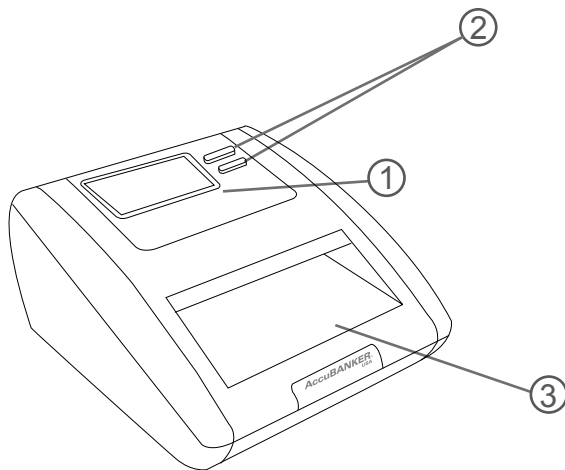
General Controls and Parts

4. Ejection Slot
5. Power switch (On/Off)
6. Power socket for 12V adapter

1.1 Specific Controls

1. Value Number Display
2. Counting Number Display
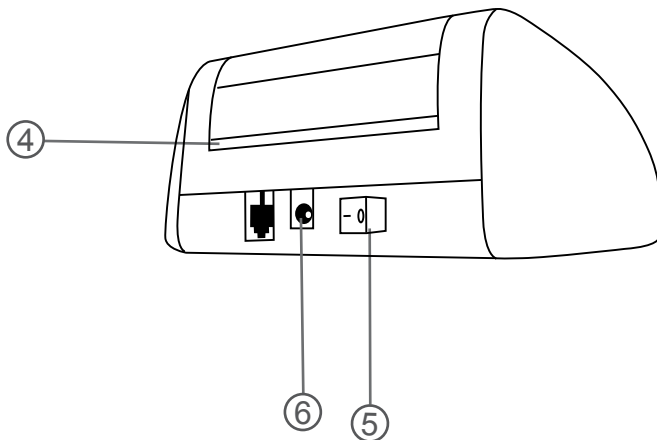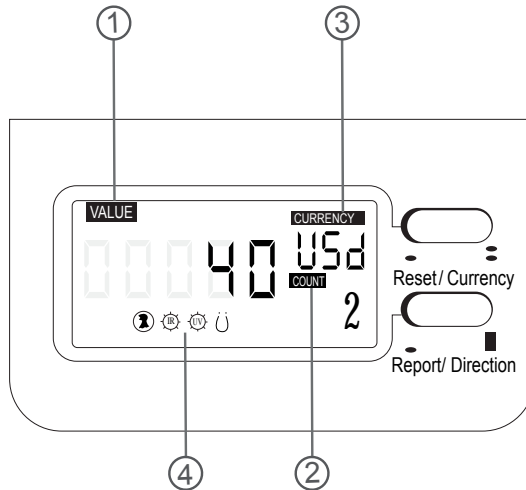3. Currency/Denomination Display
4. Error Code Display

2.0 Features

2.1 Automatic Feed
The D500 is equipped with an auto-start sensor. The machine will automatically feed in and process banknotes that are placed in the tray.

2.2 Banknote Ejection Direction
Banknotes may be ejected from either the back or the front of the machine after processing.

2.3 Report Function
The D500 can show a summary report of the value and count for all banknotes processed by denomination.

2.4 Counterfeit Detection
Counterfeit detection is performed by four (4) different methods - Illustration (Illus.), Infrared (IR), Ultraviolet (UV), and Magnetic (MG).

3.1 Basic Operation

3.1.1 Connect the 12V adapter to a power outlet and to the jack on the rear of the machine. Turn the POWER switch ON. The unit will conduct a self-check at start-up. The Value display and Count display will show "0" when the unit is ready.

3.1.2 Place the banknote in the machine lengthwise, with the portrait facing up and to the right.

3.1.3 Genuine banknotes will pass through (or come back based on ejection direction setting) after one (1) beep.

3.1.4 Suspicious banknotes will be rejected with three (3) beeps. This banknote will not be added to any totals. Also, the error icon(s) will blink to indicate the suspected detection fault(s).
Note: Be sure to unplug the machine when not in use.

3.2 Banknote Ejection Direction
Set the Banknote Ejection Direction by pressing the "Report/Direction" button for 2 seconds. The icon ◯ will appear on the display to indicate

Operations Cont.

that the machine will eject banknotes to the front. Press and hold the "Report/Direction" button again to turn off the ◯ icon and the machine will eject banknotes to the front of the machine.

3.3 Report Function
Press the "Report/Direction" button quickly to see the denomination Par Value, Count and Total for all denominations processed. Each time the button is pressed for a second, it will scroll through the denomination (Par Value) and show the number of banknotes counted along with their total value. Press the "Reset/Currency" button to clear all totals.

3.4 Counterfeit Detection
There are four counterfeit detection methods: Illustration (Illus.), Infrared (IR), Ultraviolet (UV) and Magnetic (MG). All four methods work together at all times.

3.4.1 Illustration Detection
This method checks for the illustration feature on the banknote. If the illustration is not detected the machine will alert with a triple beeping sound and reject the banknote by ejecting it to the front of the machine. Also, the Illus. error icon will flash on the display.

3.4.2 IR Detection

This method checks the banknote for infrared properties. If the IR signature is not detected the machine will alert with a triple beeping sound and reject the bill by ejecting it to the front. Also, the IR error icon will flash on the display.

3.4.3 UV Detection

This method checks the banknote against an ultraviolet light source. If the UV properties are not detected the machine will alert with a triple beeping sound and reject the bill by ejecting it to the front of the machine. Also, the UV error icon will flash on the display.

3.4.4 MG Detection

This method checks the banknote for magnetic ink properties. If the magnetic ink is not detected the machine will alert with a triple beeping sound and reject the bill by ejecting it to the front. Also, the MG error icon will flash on the display.

4.0 Troubleshooting Operational Problems

4.1 Avoiding Problems

Avoid strong light or magnetic sources that will disturb the counterfeit detection functions while operating the machine.

Keep the sensors clean and free of the dust.

Unplug the machine when not in use.

Pre-select the banknotes to be counted in the machine. Do not attempt to count:

- Banknotes with metal clips
- Broken banknotes
- Banknotes with adhesive media (i.e., tape, glue)
- Washed Banknotes
- Torn or ripped banknotes

4.2 Jamming

• Before beginning operation of the machine, make sure there are no foreign objects in any of the mechanisms such as silica bags, spare parts, etc.

• To avoid jamming, ensure that banknotes are placed correctly in the hopper.

• If jamming occurs, power the machine off. Carefully remove the jammed banknotes from the machine with a wooden or rub ber stick. Look for any foreign objects such as paper clips, rubber bands, etc. and remove them, if necessary.

5.0 Error Messages and their Meaning

Icon	Meaning	Solution
Illustration (Illus.)	Suspicious banknote for Illus.	The banknote is suspected as false for improper Illus.
Infrared (IR)	Suspicious banknote for IR	The banknote is suspected as false for improper IR markings.
Ultraviolet (UV)	Suspicious banknote for UV	Banknote is suspected as false for improper UV features.

Magnetic (MG)	Suspicious banknote for MG	Banknote is suspected as false for improper MG features or lack of MG ink.
Ejection Direction	Banknote Ejection Direction is to the back of the machine	To change the setting, press and hold "Report/Direction" button for 2 secs. Icon will disappear and banknotes will be ejected.

6.0 Specifications

Ambient Temperature: 50 – 95 °F (10 – 35 °C)
Ambient Humidity: 40 - 80%
Feeding System: Roller Friction System
Display: Graphical LCD display with backlighting
Power Source: 12V DC adapted from 110-220V, 60-50 Hz
Power Consumption: < 10W
Dimensions: 5.0" x 5.4" x 2.8" (128W x 138L x 72H mm)
Weight: 1.1 lbs (0.5kg)
Processing Speed: 60 bills/min (approx)

Notes

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