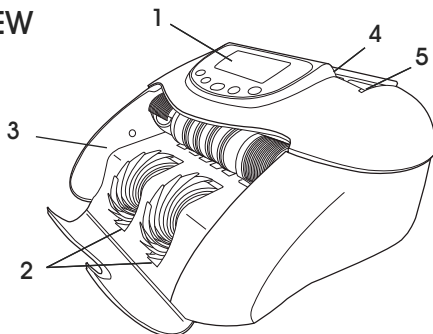


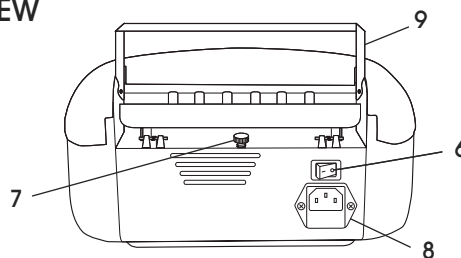
PARTS

FRONT VIEW



#	DESCRIPTION
1	Display
2	Stacking Rollers
3	Stacker
4	Hopper Sensor
5	Hopper

BACK VIEW



#	DESCRIPTION
6	Power Switch
7	Feed Gap Adjustment Screw
8	Power Outlet
9	Retractable Handle



NOTE: Do not change feed gap adjustment screw setting unless advised by a technician.

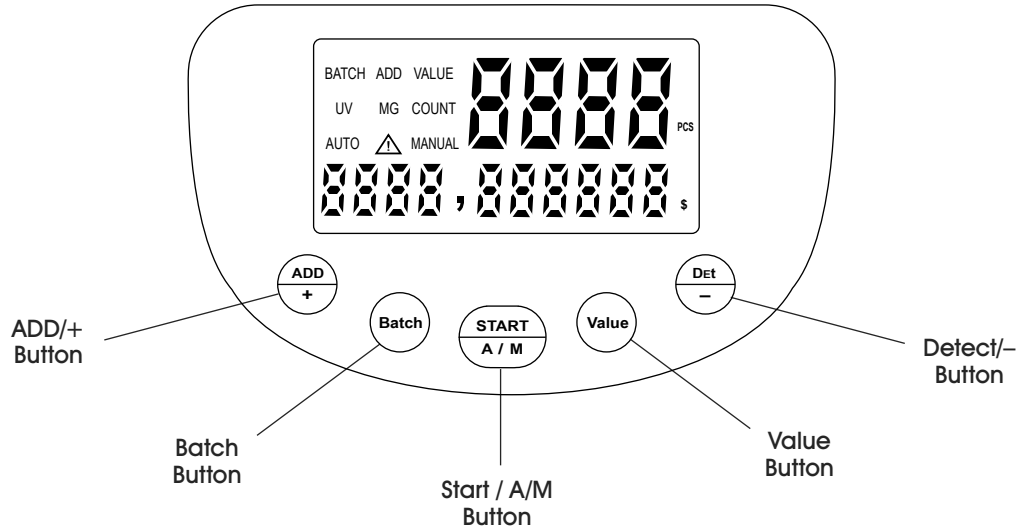
SAFETY



IMPORTANT! When using this machine, basic safety precautions should always be taken, including the following:

- Do not use counter in areas where it may be exposed to water or any other liquids.
- Only use the power cord supplied with the machine. Plug the power cord into a properly grounded wall outlet. Do not remove the ground pin from the power cord. Failure to properly ground the machine can result in severe injury or fire.
- Ensure the counter is installed on a stable, flat surface. Do not operate the machine in areas with high temperature, humidity or smoke. This may prevent the counter from working correctly.
- Counter is designed for indoor use in a ventilated environment. Keep away from direct sunlight and strong magnetic fields, as this could interfere with operation.
- If the counter is not in use for an extended period, disconnect the power cord from the wall outlet.
- Unplug machine from the wall outlet before cleaning. Use compressed air and a currency cleaning card for cleaning the interior of the machine. A soft cleaning cloth may be used to clean the exterior. Avoid the use of solvents, as they could damage the machine.
- To avoid the risk of electrical shock, do not disassemble the machine. Disassembling will expose you to dangerous voltages and other risks associated with moving components. Incorrect re-assembly can cause electrical shock when the unit is powered on.
- Take the bill counter to a qualified technician when service or repair is required. Do not try to replace the parts yourself, as the supplied spare parts are intended for replacement by qualified personnel only.

OVERVIEW OF CONTROLS



BUTTON	PRIMARY FUNCTION	SECONDARY FUNCTION
ADD/+	ADD Activates adding mode. The indicator will be lit while this mode is on.	+ Increases batch number.
BATCH	Activates batching mode and sets one of the preset batch numbers. The indicator will be lit while this mode is on.	-----
START / A/M	START Initiates or stops counting when bills are in the hopper. Clears screen when hopper is empty.	A/M Allows selection between automatic and manual counting modes. The indicator will be lit while machine is in automatic mode.
VALUE	Activates value counting mode.	-----
DET/-	DETECT Activates counterfeit detection feature. The indicator will be lit while this mode is on.	- Decreases batch number.

SETUP



NOTE: Bill counter only works with US currency.

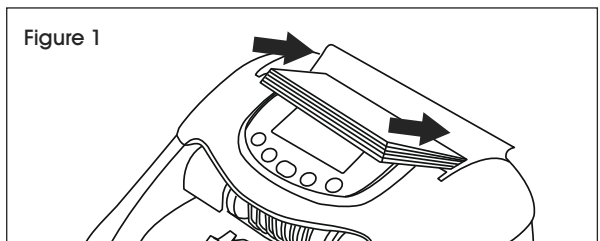
Ensure the hopper is empty and turn the power switch on. The machine will conduct a self-check by spinning the counting wheels several times. The machine will emit a beep and display "0" when it is ready to count.

LOADING THE HOPPER



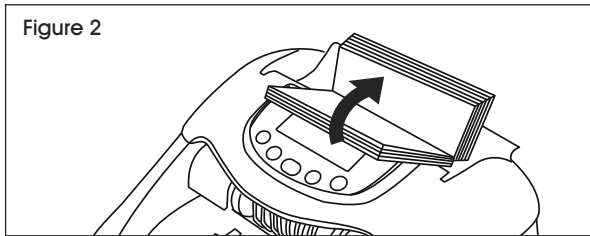
IMPORTANT! Ensure there are no metal clips, paper bands or rubber bands in the bills to be counted.

1. Position stack of bills perpendicular to hopper. (See Figure 1)

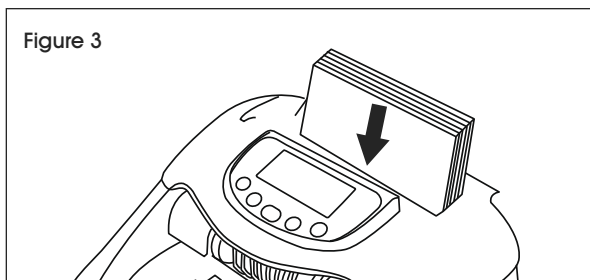


SETUP CONTINUED

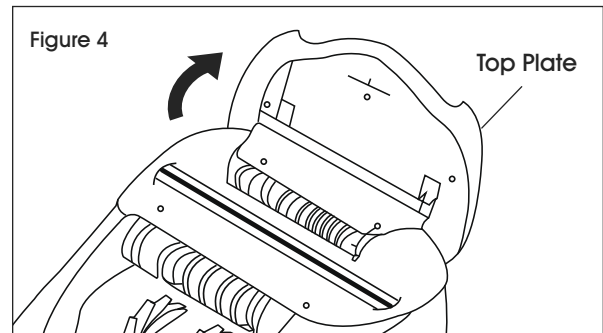
2. Flip front edge of stack upward toward rear of machine. (See Figure 2)



3. Verify bills feed properly into machine. (See Figure 3)



NOTE: If jamming occurs, open top plate to clear (See Figure 4) or refer to Troubleshooting on page 6.



OPERATION

AUTO MODE

1. To enable mode, press **A/M** button. The "A/M" indicator will light up.
2. Machine will start counting automatically. This is the default mode.



NOTE: All further instructions are applicable to operation with the automatic function turned on. If automatic function is turned off, you will have to press the **START** button to start each count.

COUNTING MODE

1. Machine defaults to counting mode when it is turned on.
2. Ensure adding and batching modes are turned off.
3. To count bills, place them into the hopper. The machine will start counting the bills automatically and will move bills from the hopper to the stacker as it counts them.
4. The machine will stop counting when the hopper is empty. The counted number of bills will be displayed. The previous count will also be displayed.

BATCHING MODE

1. To switch to batching mode, press the **BATCH** button to choose from preset numbered units (100, 50, 25, 20, 10). "Batch" will show on the display. To adjust the batch to one that is not a preset number, use the **ADD/+** and **DET/-** buttons.
2. The machine will start counting automatically once bills are placed in the hopper.
3. As soon as the machine reaches the desired batch number, it will stop. The number of bills in the stacker will appear on the display. Press the **START** button to count the next preset batch quantity.
4. If the number of counted bills in the stacker does not reach the preset batch number, display will blink to alert you that the indicated number of counted bills is an incomplete batch. To complete the batch, place more bills in the hopper. The machine will automatically count to the required number of bills to complete the batch.

CHANGING BATCH QUANTITY

1. Wait until machine completes the current batch.
2. If the previous batch was completed, press the **START** button to clear display and then press the **BATCH** and **ADD/+** or **DET/-** buttons to enter a new batch number.
3. If the previous batch was not completed, press the **BATCH** button to reset the desired amount.

ADDING MODE

This mode counts multiple stacks of bills while keeping track of the total number of bills counted.

1. To switch to adding mode, press the **ADD/+** button. "Add" will show on the display.
2. Place the bills into the hopper and the machine will start counting automatically.
3. The current count and total number of bills counted will be displayed. To reset the current count, press the **START** button once. To reset the total count, press the **START** button twice.

DETECTION FEATURES

COUNTERFEIT NOTE DETECTION

Ultraviolet and magnetic detection are used to verify the authenticity of bills.

1. Repeatedly press the **DET/-** button to turn on the desired detection system (UV, MG). The indicator will be lit while this feature is on.
2. The machine will beep and stop counting when a suspect bill is detected, and an "Err" message will be displayed. "UV" or "MG" will blink.
3. To continue counting, remove the suspect bill (the last one in the stacker) and press the **START** button. The machine will resume counting and will not add the suspect bill to the count.



NOTE: Counter cannot guarantee a counted bill to be genuine or counterfeit. A genuine bill may be recognized as counterfeit or vice versa for several reasons, including direct sunlight exposure, excessive wear or dirtiness or a highly advanced counterfeiting technique used to produce the bill. Separate equipment may be required to provide definitive proof of whether a note is counterfeit.

DOUBLE NOTE DETECTION

Infrared light-based technology determines when two bills stick together. Feature is activated automatically in all modes.

1. The machine will stop counting when a double bill is detected. The machine will emit an alerting beep and display a "dbl" message.
2. To avoid counting errors, the machine will automatically reset and not count bills that are currently in the stacker. All bills that are in the stacker should be placed back into the hopper and recounted.
3. When a double note is detected during adding mode, the machine allows you to continue without losing the total count. The machine will emit an alerting beep and display a "dbl" message. Remove all bills from the stacker, place them back into the hopper and press the **START** button. The machine will automatically correct the total number of counted bills and continue from the previous count.

HALF NOTE DETECTION

Infrared light-based technology determines when a half note passes through the counting mechanism. Feature is activated automatically in all modes.

1. The machine will stop counting when a half note is detected. The machine will emit an alerting beep and display a "HLF" message. Remove the half note from the stacker.
2. To avoid counting errors, the machine will automatically reset and will not count bills that are currently in the stacker. All bills that are in the stacker should be placed back into the hopper and recounted.
3. When a half note is detected during adding mode, the machine allows you to continue counting without losing the total count. The machine will emit an alerting beep and display a "HLF" message. Remove all bills from the stacker, place them back into the hopper and press the **START** button. The machine will automatically correct the total number of counted bills and continue from the previous count.

OPERATION CONTINUED

CHAIN NOTE DETECTION

A self-checking system detects when multiple notes pass through the counting mechanism at the same time. Feature is activated automatically in all modes.

1. The machine will stop counting when multiple notes have passed through the counting mechanism. The machine will emit an alerting beep and display a "CHn" message.
2. To avoid counting errors, the machine will automatically reset and not count bills that are currently in the stacker. All bills that are in the stacker should be placed back into the hopper and recounted.
3. When a chain note is detected during any adding mode, the machine allows you to continue counting without losing the total count. The machine will emit an alerting beep and display a "CHn" message. Remove all bills from the stacker, place them back into the hopper and press the **START** button. The machine will automatically correct the total number of counted bills and continue from the previous count.

BILL SIZE DETECTION

Bill size detection alerts when a bill is narrower than a standard bill (torn or folded bills) by more than half width. Feature is activated automatically in all modes.

1. The machine will stop counting when a narrow bill is detected. The machine will emit an alerting beep and display a "dd" message.
2. To continue counting, remove the suspicious bill (the last one in the stacker) and press the **START** button. The machine will resume counting and will not add the identified bill to the count.

MAINTENANCE



CAUTION! Always turn machine off and disconnect the power cord before cleaning.

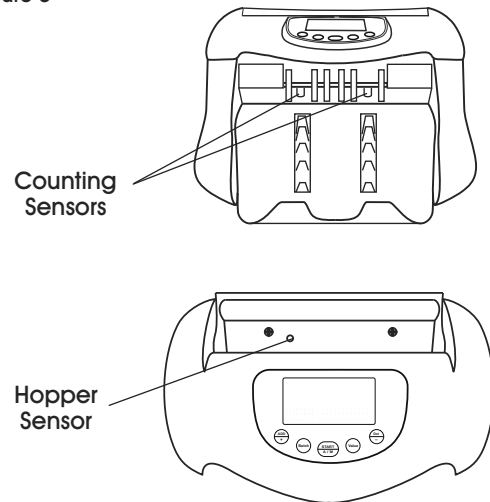
DAILY

- Clean all the sensors in the machine with a soft brush and compressed air to remove dust and other particles. (See Figure 5)
- Run a currency cleaning card (not included) through the machine several times to clean the feed mechanism.



NOTE: When not using the machine for an extended period, cover it with a drop cloth or plastic sheeting to prevent dust from settling inside.

Figure 5



TECHNICAL INFORMATION

SPECIFICATIONS

Power Supply	110 V AC, 60 Hz
Power Consumption	< 60 Watts
Counting Speed	Up to 1,200 bills/minute
Applicable Bill Thickness	1 – 1.5 bills thickness (0.075 – 0.15 mm)
Hopper Capacity	New: 200 Bills Old: 100 Bills
Stacker Capacity	New: 200 Bills Old: 100 Bills
Batch Range	1 – 999 Bills
Feeding System	Roller Friction System
Counting Display	LED
Counterfeit Detection	Ultraviolet and Magnetic
Ambient Temperature	32° – 104°F
Operating Humidity	40 – 90%
Size	10" x 10" x 5.9"
Weight	8.8 lbs

TROUBLESHOOTING

OPERATING ISSUE	CAUSES	RECOMMENDATIONS
Bills jammed.	Jam inside machine.	<ol style="list-style-type: none"> 1. Turn off the machine. 2. Remove jammed bills by lifting the front cover and turning rollers or wheels manually if necessary. 3. Look for foreign objects inside the machine (paper clips, rubber bands, etc.). Remove objects. 4. Close front cover and turn machine on and restart counting.
Machine fails to detect counterfeit notes.	UV sensor may have collected dust. Magnetic sensors may need cleaning.	Clean the UV sensor using compressed air or a soft brush. Run a currency cleaning card (not included) through the machine to clean the magnetic sensors.
Inaccurate counting; recurrent "Chn" or "dbl" errors.	If bills are brand new, feeding gap may be too wide. Rubber rollers and rubber may have worn down, increasing the feed gap.	Narrow feed gap. <ol style="list-style-type: none"> 1. Turn feed gap adjustment screws counterclockwise and retry counting. 2. Repeat procedure until gap is properly adjusted.

TROUBLESHOOTING CONTINUED

ERROR CODES

ERROR CODE	CAUSES	RECOMMENDATIONS
<i>UV</i> <i>MG</i>	Counterfeit bill detected.	Remove the last bill from the stacker and press the START button to continue counting. The suspect bill will not be added to the count.
<i>dbl</i>	Double note detected.	Check if the last two bills in the stacker are stuck together. Remove all bills from the stacker and recount them.
<i>HLF</i>	Half note or torn bill detected.	Remove the half note from the stacker and recount all other bills in the stacker.
<i>CHN</i>	Two or more notes have passed through at the same time.	Remove all bills from the stacker and recount them.
<i>ERR E1</i>	There are bills in the hopper. Hopper sensor may have collected dust.	Remove the bills from the hopper to allow the machine to complete its self-check. Clean the sensor with a soft bristle brush and compressed air.
<i>ERR E2</i> <i>ERR E3</i>	Left counting sensor may have collected dust. Right counting sensor may have collected dust.	Clean the sensor(s) with compressed air and a soft bristle brush.
<i>dd</i>	Non-standard sized bill detected.	Remove the last bill from the stacker and press the START button to continue counting.

ULINE

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