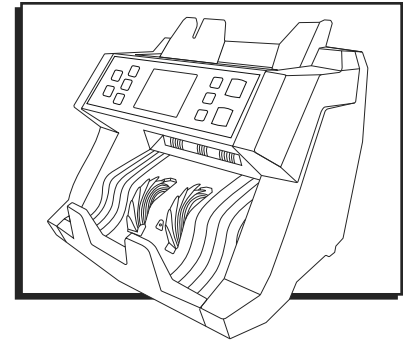


ULINE H-10850

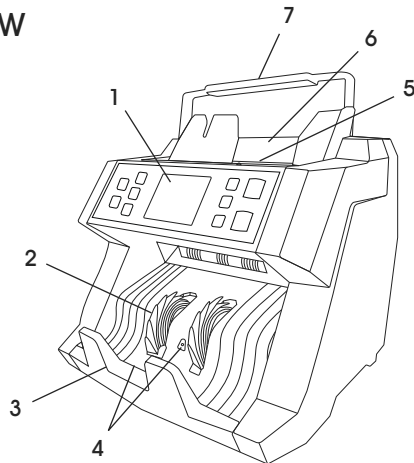
BILL COUNTER WITH VALUE COUNT

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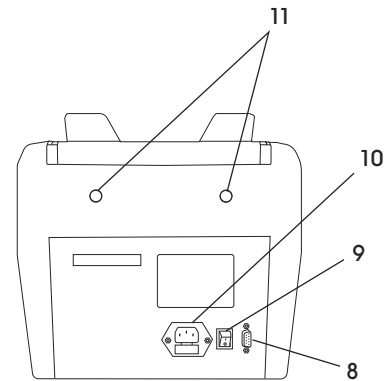
PARTS

FRONT VIEW



#	DESCRIPTION
1	Control Panel
2	Stacking Roller
3	Stacker
4	Stacker Sensors
5	Hopper Sensor
6	Hopper
7	Retractable Handle

BACK VIEW



#	DESCRIPTION
8	Serial Port
9	Power Switch
10	Power Outlet and Fuse
11	Feed Gap Adjustment Screws



NOTE: Do not change feed gap adjustment screw setting unless machine displays recurring DBL or CHN errors. When adjusting, ensure both screws are adjusted equally.

SAFETY



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

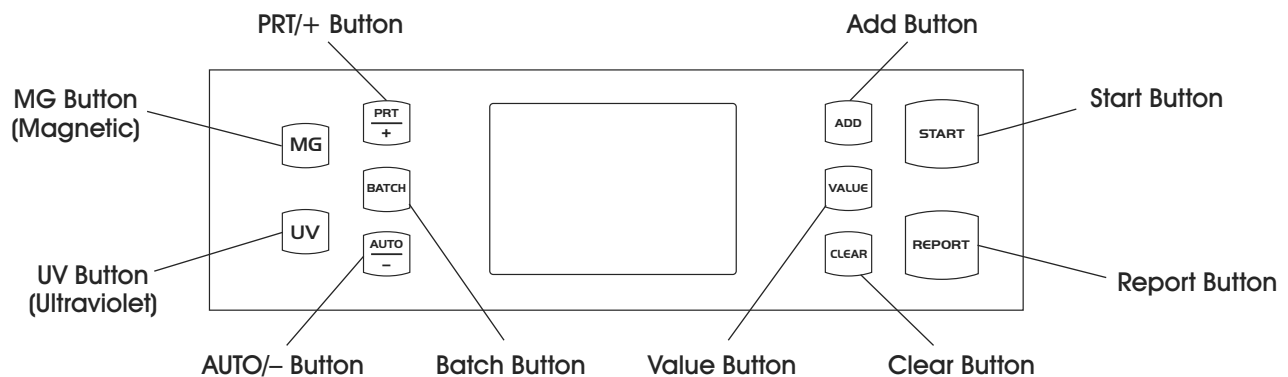
- Do not use counter in areas where it may be exposed to water or any other liquids.
- Only use the power cord supplied with the machine. Plug the power cord into a properly grounded wall outlet. Do not remove the ground pin from the power cord. Failure to properly ground the machine can result in severe 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.

SAFETY CONTINUED

- 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

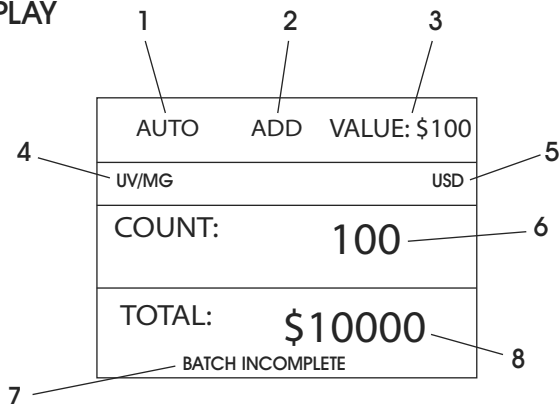
CONTROL PANEL



BUTTON	FUNCTION
PRT/+	Prints the report of total bills counted. Scroll up.
MG	Activates magnetic counterfeit detection on UV/MG model.
UV	Activates ultraviolet counterfeit detection. The screen will display the type of detection active.
AUTO/-	Allows the user to select between automatic and manual counting modes. Scroll down.
BATCH	Activates batching mode. The screen will display "BAT" while this mode is active.
VALUE	Activates value counting mode.
CLEAR	Clears all counts; deactivates batching or value counting modes.
REPORT	View reports from bills counted.
START	Starts or stops counting.
ADD	Activates adding mode. The screen will display "ADD" while this mode is active.

OVERVIEW OF CONTROLS CONTINUED

DISPLAY



#	DESCRIPTION
1	Auto or manual mode.
2	Adding mode active/inactive.
3	Value counting mode active/inactive.
4	Counterfeit detection active/inactive.
5	Selected currency.
6	Number of bills counted.
7	In batching mode, displays batch complete/incomplete.
8	Total value of bills counted in value counting mode OR total bills counted in adding mode.

SETUP

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 screen will display 0 when the machine is ready.

LOADING THE HOPPER



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



NOTE: Ensure desired currency and operating modes are selected before loading bills.

1. Adjust hopper brackets to the size of bills to ensure smooth counting.
2. Place stack of bills flat in hopper.
3. Verify bills feed properly into machine. (See Figure 1)



NOTE: To prevent jamming, do not allow stacker to accumulate more bills than it can handle. Stacker can hold approximately 300 new bills or 150 old bills.



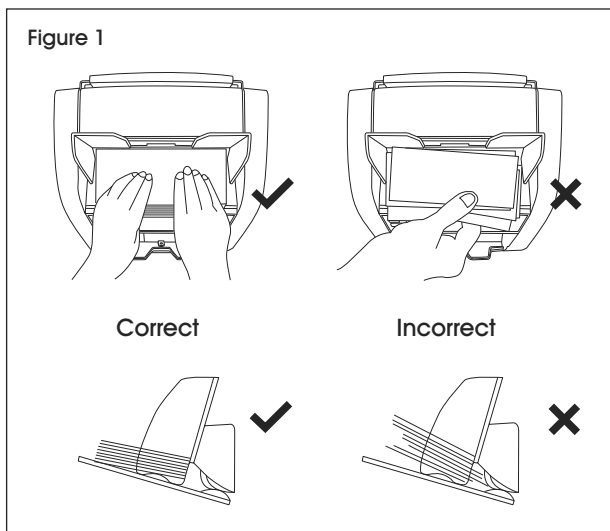
NOTE: If jamming occurs, turn rollers and wheels manually to clear. See Troubleshooting on page 9.



IMPORTANT! To reduce rejects:

- Arrange bills evenly before loading.
- Adjust hopper brackets to fit bill size.
- Correct wrinkled or damaged bills.
- Avoid counting bills that are wet, excessively dirty, folded, curled or misshapen.
- Ensure no foreign objects are present within the bills (coins, paper clips, rubber bands, etc.).

Figure 1



OPERATION



NOTE: To prevent jamming, do not allow stacker to accumulate more bills than it can handle. Stacker can hold approximately 300 new bills or 150 old bills.

AUTO MODE

1. Machine defaults to auto mode when turned on. "AUTO" will be displayed on the screen and machine will start counting automatically.
2. To operate machine in manual mode, press the **AUTO** button. Machine will display "MANUAL" on the screen. Press **START** button to begin each count.
3. Press **AUTO** button again to return to auto mode.

COUNTING MODE

1. Machine defaults to counting mode when turned on. To switch to counting mode from another mode, deactivate mode previously in use. Machine will automatically revert to counting mode.
2. Place bills in the hopper. Machine will start counting automatically and move bills from the hopper to the stacker.
3. A confirmation beep will sound when the hopper is empty. The machine will stop counting. The counted number of bills will be displayed on the screen. Screen will clear itself of the previous count before a new stack is counted.

BATCHING MODE

1. To switch to batching mode, press the **BATCH** button. Batch quantity defaults to 100. Press the **BATCH** button to select a different preset quantity (50, 20, 10) or enter the desired batch quantity using the numeric keypad. Batch quantity is displayed on the top right corner of the screen.
2. Place bills in the hopper. Machine will start counting automatically.
3. The machine will stop counting once it counts the desired batch quantity and will emit a confirmation beep. The screen will display "BATCH COMPLETE" and show the number of bills in the stacker. When the stacker is emptied, machine will automatically start counting the next preset batch quantity.

4. If the number of counted bills in the stacker does not reach the preset batch quantity, the machine will emit two beeps, and the screen will display "BATCH INCOMPLETE" and blink with the actual number of bills counted. 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. Enter the new batch quantity using the numeric keypad. Empty the stacker before placing new bills in the hopper.
3. If previous batch was completed, machine will automatically start counting to the newly set batch quantity once the stacker is emptied.
4. To exit this mode, press **CLEAR** or **BATCH** button until it disappears from the screen.

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 be displayed on the screen.
2. Place the bills into the hopper. Machine will start counting automatically.
3. Machine will emit a confirmation beep once the hopper is empty. The total number of bills counted will be displayed next to "TOTAL:" while the last count will be displayed next to "COUNT:".
4. Empty the stacker and refill the counter. The machine will continue counting, adding the new count to the total count.
5. To reset the count, press the **CLEAR** button. Both the total and the last count will clear.
6. To continue adding without emptying the stacker, refill hopper. Machine will continue counting and add new bills to the partially full stacker.

ADDING AND BATCHING MODE

This mode allows you to batch the desired quantity of bills and monitor their total number at the same time.

1. Press the **ADD** and **BATCH** buttons. Both "ADD" and "BAT" will be displayed on the screen.
2. To reset the count, press the **CLEAR** button.

VALUE COUNTING MODE

This mode displays the total value of bills counted. Value is displayed using a user-defined denomination as a multiplier. For example, a denomination of \$20 x 25 bills counted = 500 displayed.



NOTE: Machine does not recognize bill denomination automatically. It only calculates the value of the preset denomination.

1. Press the **VALUE** button. "VALUE: \$1" will be displayed in the top right corner. Press the **VALUE** button to select a denomination of 1, 2, 5, 10, 20, 50 or 100.
2. Place bills in the hopper, ensuring the denomination of the bills matches the selected denomination. The machine will count the stack and display the total value and the number of bills counted on the screen.
3. To exit this mode, press the **CLEAR** button.

VALUE COUNTING IN ADDING MODE



NOTE: Machine does not recognize bill denomination automatically. It only calculates the value of the preset denomination.

This mode allows you to count different denominations of bills while keeping track of the total value of bills counted.

1. Press the **ADD** and **VALUE** buttons and select the desired denomination.
2. The total value of bills counted will be displayed next to "TOTAL", the last count will be displayed next to "COUNT" and the total number of bills counted will be displayed next to "TOTAL COUNT".

REPORT AND PRINT FUNCTIONS

View reports on the screen and print when connected to an external printer.



NOTE: Printer is not included.



IMPORTANT! Report feature is only available when value counting mode is active.

Follow instructions to count bills in value counting mode or value counting in adding mode.

3. Press the **REPORT** button to see the breakdown of bills counted by values and the grand total.
4. To print the report, connect the RS232 end of cable of your printer to the RS232 port on the back of the bill counter. Connect the other side of the cable to your printer.
5. Press the **PRINT** button on the bill counter to print the report.



NOTE: For optimal performance, an external thermal printer is recommended. Bill counter will work with any compatible external thermal printer.

6. To exit the print function, press the **REPORT** button.

DETECTION FEATURES

COUNTERFEIT NOTE DETECTION

Ultraviolet sensors and magnetic ink detection are used to check for counterfeit bills.

1. Press the **UV** and **MG** buttons to activate UV/MG counterfeit detection. "UV", "MG" or "UV/MG" will be displayed on the screen while this feature is active.
2. The machine will beep and stop counting when a suspect bill is detected, and "UV ERROR" or "MG ERROR" will be displayed on the screen with instructions.
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.

OPERATION CONTINUED

DOUBLE NOTE DETECTION

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

1. The machine will beep and stop counting when a double bill is detected, and a "DOUBLE NOTE ERROR" with instructions will be displayed on the screen.
2. To clear the error, remove all bills from the stacker. The last count will reset. Take all bills from stacker and place back into the hopper to be recounted.
3. When a double note is detected in adding mode, the machine will automatically correct the total number of counted bills on the screen. When the machine stops, remove all bills from the stacker and the machine will not add them to the total count.

HALF NOTE DETECTION

Infrared light sensors determine when a half note passes through the counting mechanism. Feature is activated automatically in all modes.

1. The machine will beep and stop counting when a half note is detected, and a "HALF NOTE ERROR" with instructions will be displayed on the screen.

2. To clear the error, remove all bills from the stacker. The last count will reset. Take all bills from stacker and place back into the hopper to be recounted.
3. When a half note is detected in adding mode, the machine will automatically correct the total number of counted bills on the screen. When the machine stops, remove all bills from the stacker and the machine will not add them to the total count.

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 beep and stop counting when a chain note is detected. A "CHAIN NOTE ERROR" with instructions will be displayed on the screen.
2. To clear the error, remove all bills from the stacker. The last count will reset. Take all bills from stacker and place back into the hopper to be recounted.
3. When a chain note is detected in adding mode, the machine will automatically correct the total number of counted bills on the screen. When the machine stops, remove all bills from the stacker and the machine will not add them to the total count.

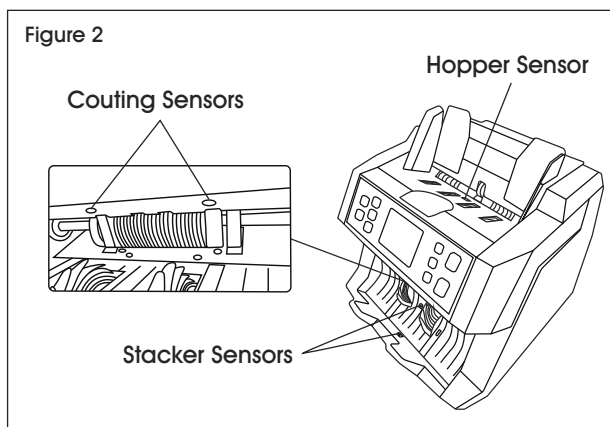
MAINTENANCE



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

After five hours of operation or once a month:

- Clean all the sensors with a soft brush and compressed air to remove dust and other particles. (See Figure 2)



- Use a cleaning swab to clean all counting sensors.
- Run a currency cleaning card (not included) through the machines several times to clean internal rubber rollers.



NOTE: Run cleaning card through the machine several times, flipping it over and moving from side to side with each pass. Excessive dirt may require the use of more than one cleaning card.



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.

TECHNICAL INFORMATION

SPECIFICATIONS

Power Supply	110 V AC, 60 Hz
Power Consumption	< 60 Watts
Counting Speed	Up to 1,400 bills/minute
Applicable Bill Thickness	1 – 1.5 bills thickness (0.075 – 0.15 mm)
Hopper Capacity	New: 400 Bills Old: 200 Bills
Stacker Capacity	New: 300 Bills Old: 200 Bills
Batch Range	1 – 999 Bills
Feeding System	Roller Friction System
Counting Display	TFT 2.8" (71 mm)
Counterfeit Display	Ultraviolet and Magnetic
Ambient Temperature	32° – 104°F
Operating Humidity	40 – 90%
Size	9.8" x 10.6" x 10.2"
Weight	11.9 lbs
Fuse	2 AMP Slow, 250 V

TROUBLESHOOTING

OPERATING ISSUE	CAUSES	RECOMMENDATIONS
Machine does not operate after being turned on.	Loose plug or damaged fuse.	Ensure power cord is plugged in. Verify indicator light is lit on the DC power converter module. Check fuse and replace if damaged.
Inaccurate counting/ miscounting.	If bills are brand new, feed gap may be too wide.	Narrow feed gap. 1. Turn feed gap adjustment screws counterclockwise and retry counting. 2. Repeat procedure until gap is properly adjusted.

TROUBLESHOOTING CONTINUED

OPERATING ISSUE	CAUSES	RECOMMENDATIONS
Bills jam.	Foreign objects present in bill stack. Feed gap may be too narrow.	<ol style="list-style-type: none"> 1. Turn off the machine. 2. Remove jammed bills by turning rollers and wheels manually if necessary. 3. Look for foreign objects inside the machine (paper clips, rubber bands, etc.). Remove objects. <p>Widen feed gap.</p> <ol style="list-style-type: none"> 1. Turn feed gap adjustment screws clockwise and retry counting. 2. Repeat procedure until gap is properly adjusted.

ERROR CODES

ERROR CODE	CAUSES	RECOMMENDATIONS
<i>UV 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>DOUBLE NOTE</i>	Double note detected.	Remove the double note from the stacker and recount all other notes in the stacker.
<i>HALF NOTE</i>	Half note detected.	Remove the half note from the stacker and recount all other bills in the stacker.
<i>CHAIN NOTE</i>	Two or more notes have passed through at the same time.	Remove all bills from the stacker and recount them.
<i>HOPPER SENSOR</i>	There are bills in the hopper. Hopper sensor may have collected dust.	<p>Remove the bills from the hopper to allow the machine to complete its self-check.</p> <p>Clean the sensor with a soft bristle brush and compressed air.</p>
<i>MOTOR SENSOR</i>	Issue with the main motor. Belt is damaged.	Turn off the machine. Remove any jammed bills or foreign objects by turning rollers or wheels manually. If issues persist, contact Uline Customer Service at 1-800-295-5510.
<i>ULTRAVIOLET SENSOR</i>	Counting sensors may have collected dust.	Clean the sensors with compressed air and a soft bristle brush.

TROUBLESHOOTING CONTINUED

ERROR CODE	CAUSES	RECOMMENDATIONS
<i>IP1 & IP2 SENSOR</i>	Counting sensors may have collected dust.	Clean the sensors with compressed air and a soft bristle brush.
<i>STACKER SENSOR</i>	There are bills in the stacker. Stacking sensors may have collected dust.	Remove the bills from the stacker to allow the machine to complete its self-check. Clean the sensors with compressed air and a soft bristle brush.

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