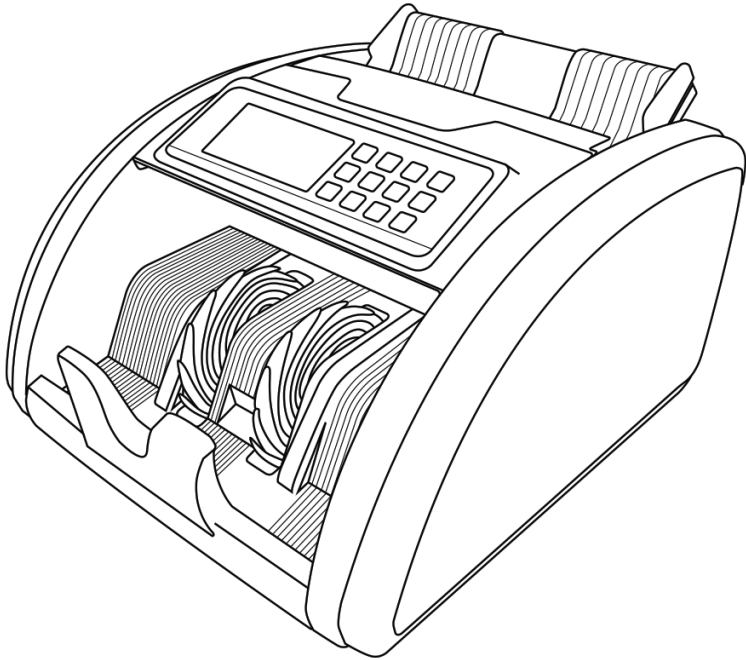


Kolibri™

Ace



USER MANUAL
Kolibri Ace Bill Counter

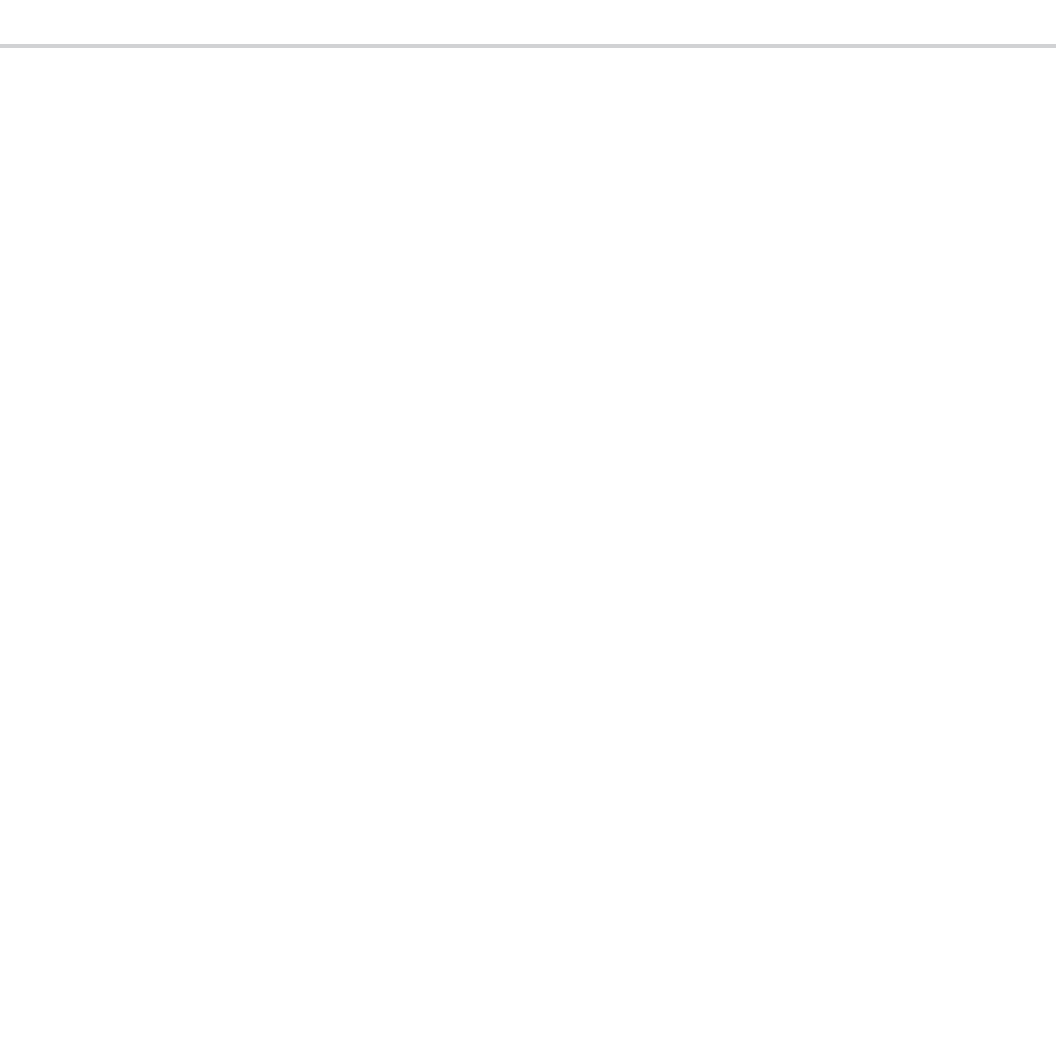


Table of Contents:

1. INTRODUCTION

1.1 About the Kolibri Ace _____	2
1.2 Important Safety Notes _____	2
1.3 Box Contents _____	3
1.4 Specifications _____	3
1.5 Views of the Kolibri Ace _____	4
1.6 Control Panel _____	5

2. GETTING STARTED

2.1 Powering Up _____	6
2.2 Loading the Hopper _____	6
2.3 Carrying the Unit _____	6

3. OPERATING MODES

3.1 Auto & Manual Mode _____	7
3.2 Count Mode _____	7
3.3 Add Mode _____	8
3.4 Batch Mode _____	8
3.5 Add + Batch Mode _____	8

4. DETECTION FEATURES

4.1 UV Counterfeit Detection _____	9
4.2 MG Counterfeit Detection _____	9
4.3 Half Note Detection _____	10
4.4 Double Note Detection _____	10
4.5 Chain Note Detection _____	10

5. MAINTENANCE, TROUBLESHOOTING, WARRANTY, CONTACT INFORMATION

5.1 Maintenance _____	11
5.2 Troubleshooting _____	12
5.3 Warranty _____	13
5.4 Contact Information _____	13

1. INTRODUCTION

1.1 About the Kolibri Ace

The Kolibri Ace Bill Counter is a cash processing machine that is sophisticated yet simple to operate. It will save time and reduce counting errors by swiftly and precisely counting stacks of bills at speeds up to 1,500 bills per minute. The Kolibri Ace also allows for cash to be batched into custom stack amounts. All of these features come with a built-in counterfeit detection system that uses ultraviolet and magnetic ink detection which will alert to the presence of any suspicious bills.

1.2 Important Safety Notes

- Do not use this product in areas where it may be exposed to water or any other liquids.
- Unplug this product from the wall outlet before cleaning. Use a damp cloth or air duster to clean the unit.
- To avoid the risk of electrical shock, do not disassemble this unit. Disassembling will expose you to dangerous voltages and other safety risks. Incorrect reassembly may cause electrical shock when the unit is subsequently used.
- Only use this product with the power cord supplied. Plug the power cord into a properly grounded wall outlet. Do not remove the grounding pin from the power cord. Failure to properly ground the unit can result in severe injury or fire.
- Make sure the device is placed on a flat surface. Do not operate the unit in areas with high temperature, humidity or smoke as these conditions may impede performance.
- This product is designed for indoor use in a well-ventilated environment. Keep the unit away from direct sunlight and strong magnetic fields which may interfere with the counterfeit detection sensors.
- When not using the unit for an extended period of time, disconnect the power cord from the wall outlet.

1.3 Box Contents

1. Kolibri Ace Bill Counter
2. Power Cord
3. User Manual
4. Cleaning Brush
5. Spare Rubber Belt
6. Dust Cover

1.4 Specifications

Counting speed: 1,500 bills/minute

Hopper Capacity: 300 new or 200 circulated bills

Stacker Capacity: 300 new or 200 circulated bills

Weight: 11.3 lbs. (5.1 kg)

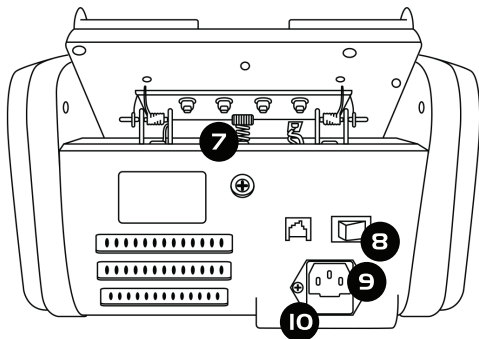
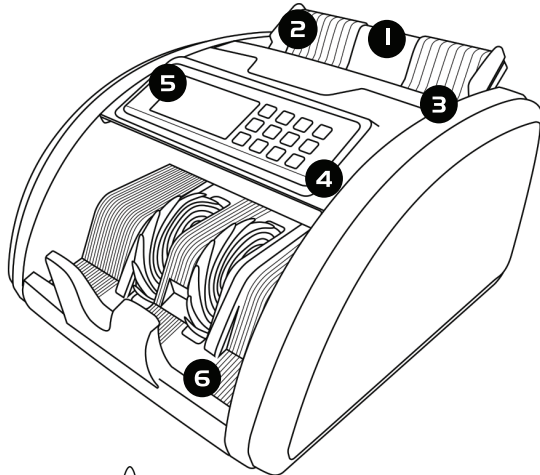
Dimensions: 11.2" W x 10" D x 6.9" H (285 x 255 x 175 mm)

Power Source: 110V, 50/60Hz, 75W

1.5 Views of the Kolibri Ace

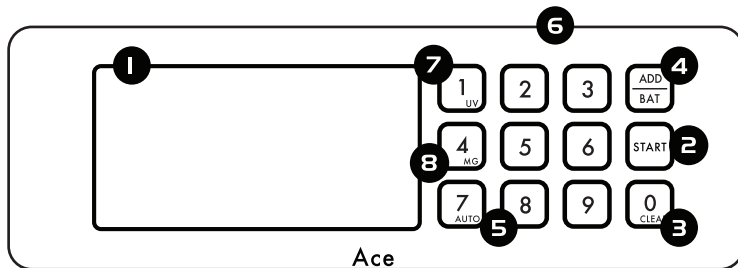
Display

1. Hopper
2. Bill Guide
3. Carrying Handle
4. Control Panel
5. Screen
6. Stacker
7. Feed Gap Adjuster
8. Power Switch
9. AC Power
10. Fuse



1.6 Control Panel

Key	Function
1. Display	Shows Amount of Bills Counted and Which Detection Methods are Active
2. START Button	Starts the Count (when not in auto-start mode)
3. CLEAR Button	Resets the Count
4. ADD and BATCH Button	Starts Add Mode and Batch Mode
5. AUTO Button	Set Auto or Manual Mode
6. NUMBER Buttons	Set Batch Amount
7. UV Counterfeit Detection Button	Set Ultraviolet (UV) Counterfeit Detection
8. MG Counterfeit Detection Button	Set Magnetic (MG) Counterfeit Detection



2. GETTING STARTED

2.1 Powering Up

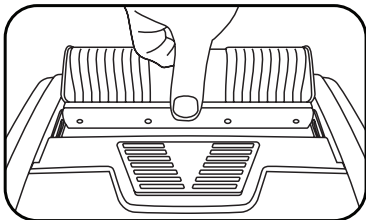
Ensure the hopper and stacker are empty and flip the power switch, located on the rear of the machine, to the on position. The unit will conduct a self-check by spinning the counting wheels several times. The screen will display "0" when the unit is ready to operate.

2.2 Loading the Hopper

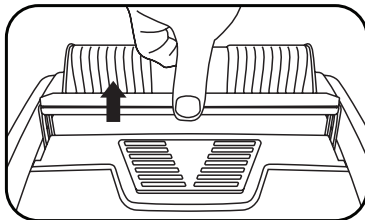
In order to avoid jams and ensure proper operating speed of the machine, it is important to correctly load the hopper.

Adjust the hopper bill guides to a size slightly wider (0.10" on each side) than the width of the bills in the stack (all US dollar denominations are the same size). This will help to correctly place the bills in the hopper, and will ensure smooth bill feeding.

2.3 Carrying the Unit



1. Slide handle back from slot



2. Pull the handle up

3. OPERATING MODES

3.1 Auto & Manual Mode

After turning the machine on it will default to AUTO mode. In this mode the machine starts counting automatically. If the machine is set to operate with the MANUAL mode by pressing the Auto Button (OFF), the machine will stop counting automatically; the "START" button must be pressed to begin each count. To go back to AUTO mode, press again on Auto Button.

3.2 Count Mode

After turning the machine on it will default to Count mode.

To return to Count mode from another mode, press the ADD and BATCH buttons until both ADD and BAT indicators are turned off.

To count bills, place them in the hopper and follow the procedure described in 2.2 LOADING THE HOPPER. The machine will start counting automatically and will move the bills from the hopper to the stacker as it counts them. The machine will stop counting when the hopper is completely emptied. The counted number of bills will be displayed. Remove the bills that have been counted from the stacker and place any additional bills to be counted into the hopper.

3.3 Add Mode

In this mode, the unit will count multiple stacks of bills while keeping track of the total amount of bills counted. To switch to Add mode, press once the ADD and BATCH button and the ADD indicator will be displayed on the screen.

Place the first stack of bills to be counted into the hopper. The number of bills will be displayed on screen. When ready to count the next stack of bills, empty the stacker and add the new stack to be counted into the hopper. The unit will continue counting and add the new count to the total.

To exit Add mode, press the ADD and BATCH button until the ADD indicator disappears.

3.4 Batch Mode

To switch to Batch mode, press the ADD and BATCH button until only the BATCH (BAT) indicator is displayed on the screen. By default, the batch size is preset to 100. Use the NUMBER buttons to manually select your desired batch size. When the set batch amount is reached, the Ace will automatically stop and the number of bills counted will be displayed on the screen. When the stacker is emptied, the machine will automatically continue to count up to the preset batch amount to create another batch.

If hopper runs out of bills before a batch is completed, the machine will emit three beeps and flash the current count on screen. At this point, the user may add bills to the hopper to complete the batch or remove the incomplete batch from the machine.

3.5 Add + Batch Mode

This mode batches the desired quantity of bills and monitors the running total at the same time. To activate this mode, press the ADD and BATCH button until the ADD and BATCH (BAT) indicators are displayed on the screen. By default, the batch size is preset to 100. Use the NUMBER buttons to manually select your desired batch size. The machine will display the batch size on the bottom of the screen and the total on the top.

4. DETECTION FEATURES

4.1 UV Counterfeit Detection

The Kolibri Ace is able to identify bills suspected of being counterfeit using an ultraviolet light detection system. This function is available in all modes by pressing the UV button until the UV indicator is displayed on the screen.

When a suspect bill is detected, the unit will beep three times and display the error code "U." The unit will continue to beep until the suspect bill is removed from the stacker, and the START button is pressed. The suspect bill will not be added to the count.

Please note that a suspect UV bill does not necessarily mean that the bill is counterfeit. There are several reasons a genuine bill may be recognized as counterfeit. Possible reasons for a bill to be indicated as suspect include: direct sunlight exposure, worn out bill, excessively dirty bill or advanced counterfeiting techniques used to produce the bill. Separate equipment may be required to determine definitively whether a note is counterfeit.

4.2 MG Counterfeit Detection

The Kolibri Ace is also able to identify bills suspected of being counterfeit by utilizing magnetic ink detection. This function is available in all modes by pressing the MG button until the MG indicator is displayed. When a suspect bill is detected the unit will beep three times and display the error code "n6." The unit will continue to beep until the suspect bill is removed from the stacker, and the START button is pressed. The suspect bill will not be added to the count.

Please note that a suspect MG bill does not necessarily mean that the bill is counterfeit. There are several reasons a genuine bill may be recognized as counterfeit. Possible reasons for a bill to be indicated as suspect include: direct sunlight exposure, worn out bill, excessively dirty bill or advanced counterfeiting techniques used to produce the bill. Separate equipment may be required to determine definitively whether a note is counterfeit.

4.3 Half Note Detection

The Kolibri Ace incorporates infrared light sensors that notify users if a half note passes through the counting mechanism. This feature is activated automatically in all modes.

If the unit detects a half note, it will beep three times and display "HLF" on the screen. The unit will continue beeping until action is taken. To clear the error, all bills must be removed from the stacker and recounted.

4.4 Double Note Detection

Bills may stick to each other due to excessive dirt, folding or various other reasons. The Kolibri Ace uses infrared light-based technology to determine whether two bills are stuck together. This feature is active automatically in all modes.

If a double bill is encountered the unit will beep three times and display the error code "dbL." The unit will continue beeping until action is taken. To clear the error, all bills must be removed from the stacker and recounted.

4.5 Chain Note Detection

The Kolibri Ace utilizes a self-checking system that alerts the user in rare cases when several notes pass through the counting mechanism at once. This feature is activated in all modes.

If the unit detects a chain error, it will beep three times and display the error code "ChN." The unit will continue beeping until action is taken. To clear the error, all bills must be removed from the stacker and recounted.

5. MAINTENANCE AND TROUBLESHOOTING

5.1 Maintenance

ATTENTION: The unit should always be turned off and disconnected from its power cord before cleaning.

Most operational problems can be avoided by regular care and preventative maintenance. Taking regular care of the bill counter will significantly increase its lifetime.

To avoid problems, make sure there are no metal clips or rubber bands in the bills being counted. Be sure to follow the proper procedure for loading the hopper, refer to section 2.2 LOADING THE HOPPER.

For best results, it is recommended that to use an air duster and a soft bristle brush to remove any dust or debris from the interior of the unit. When not using the machine for an extended period of time, cover it with the furnished dust cover to prevent dust from settling inside.

5.2 Troubleshooting

Error message display:

Error Code	Cause	Solution
U	Suspect 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. Refer to section 4.1 for more details.
n6	Suspect 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. Refer to section 4.2 for more details.
HLF	A half bill was detected.	Remove the half bill from the stacker and recount all other notes in the stacker. Refer to section 4.3 for more details.
dbl	The last counted bill is a double note.	Remove the double note from the stacker and recount all other notes in the stacker. Refer to section 4.4 for more details.
ChN	Two or more notes have passed through the unit at the same time.	Remove all bills from the stacker and recount them. Refer to section 4.5 for more details.
E01	Counting sensors may have collected dust.	Clean the sensor with a soft bristle brush and compressed air. Refer to section 5.1.
E03	Code disc sensor issue.	Contact Kolibri's technical service center
E04	Hopper sensor may have collected dust.	Clean and sensor with a soft bristle brush and compressed air. Refer to section 5.1.
E05	Stacking sensor my have collected dust.	Clean and sensor with a soft bristle brush and compressed air. Refer to section 5.1.

Other possible errors:

Problem Description	Cause/Action
Does not function after unit has been turned on.	Ensure the power cord is connected properly.
Machine fails to detect counterfeit notes.	The UV sensor may have collected dust. Refer to section 5.1.
Inaccurate counting.	<ol style="list-style-type: none">1. Bills were incorrectly inserted into the hopper.2. The feeding gap is too wide. This may happen when brand new notes are counted as their thickness differs greatly from used notes which the machine's gap is adjusted for by default. Narrow the gap slightly by turning the feed gap adjuster (refer to section 1.5 <i>Rear and Front View</i>) clockwise and try counting again. Repeat the procedure until a suitable gap width is reached.
Bills are jammed.	Turn off the machine. Remove any jammed bills by turning rollers or wheels manually, if necessary. Look for any foreign objects inside the unit (paper clips, rubber bands, etc.). Remove foreign objects, if any. Turn the unit on and restart counting.

5.3 Warranty

The Kolibri Ace is warranted for a period of one year from the date of purchase. In most cases a unit malfunction can easily be corrected by performing a thorough cleaning. This requires disassembly of the unit to clean each individual sensor. This cleaning is not covered by warranty and should be performed only by a qualified technician.

The warranty does not cover shipping to Kolibri's technical service center.

5.4 Contact Information

www.KolibriUSA.com

