

USER MANUAL

Bishop Counterfeit Detector

This manual contains important information on safety measures and operational features of the Kolibri Bishop. Please read it carefully before operating your counterfeit detector and keep it handy for future reference.



**CHOKING HAZARD.
SMALL PARTS**

Not for children under
3 years old.



**WARNING: RISK OF
ELECTRICAL SHOCK.**

This equipment is to be serviced
by trained personnel only.



**DO NOT DISPOSE
IN TRASH.**

Follow appropriate local
electronics scrap procedures.



**WARNING: HAZARDOUS
MOVING PARTS**

Do not place fingers, hair,
clothes, lanyards...
near moving parts.



PROP 65 WARNING. This product may contain chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

<https://oehha.ca.gov/>

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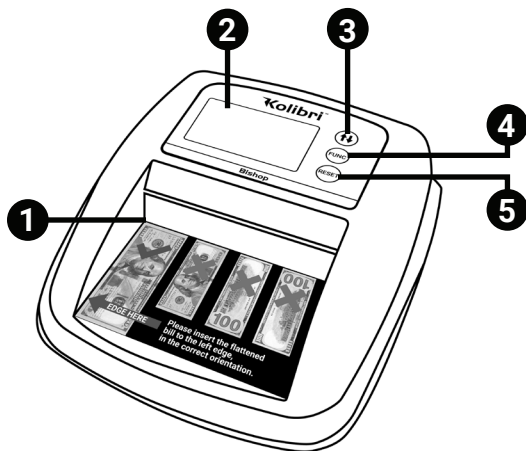
1.1 About the Kolibri Bishop

Thank you for purchasing the Kolibri Bishop, a powerful tool for identifying counterfeit bills. The Kolibri Bishop verifies infrared security marks, the most reliable anti counterfeit protection available for paper currency. With its advanced sensors, the Kolibri Bishop also verifies magnetic marks and UV signatures.

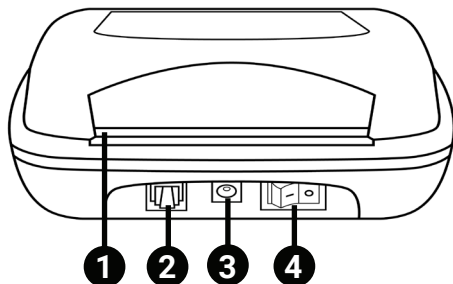
1.2 Box Contents

- Kolibri Bishop Counterfeit Detector
- DC Power Converter with AC Power Cord
- User Manual

1.3 Front and Rear Views



1. Front Slot
2. Display
3. Bill Ejection Button
4. Function Button
5. Reset Button



1. Rear Slot
2. PC Connection Jack
3. AC Adapter Power Jack
4. ON/OFF Power Switch

1.4 Specifications

Weight	1.2 lbs.
Dimensions	6.3" x 5.7" x 2.7"
Sensors	Internal IR, UV and MG Sensors
Power Consumption	>10W
Power Supply	AC/DC Adapter, 12V 650mA
Applicable Currency	United State Dollar

1.5 Important Safety Notes

When operating this unit, please observe the following basic safety procedures:

- Use only the AC/DC adapter provided with the unit. The use of other AC/DC adapters may result in electrical shock, fire, or cause serious damage to the unit.
- Do not use the unit if the power cord is damaged or if the plug socket contact is loose. Failure to follow these instructions may result in electrical shock or fire.
- Do not use this unit in areas where it may be exposed to water or any other liquids.
- Unplug the unit from the wall outlet before cleaning.
- To reduce the risk of electrical shock, do not disassemble this product. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electrical shock when the unit is used again.
- When service or repair is required, take the unit to a qualified service technician.
- Do not operate the unit in areas with high temperatures or high humidity as these conditions may prevent it from working properly.
- When not in use for an extended period of time, remove the power plug from the wall outlet.

2. OPERATION

2.1 Powering Up

Connect the AC/DC adapter to the Kolibri Bishop and plug the adapter plug into the power outlet. Turn the Kolibri Bishop on by flipping the ON/OFF switch on the rear of the unit. The unit will beep and conduct a short self-test. The screen will display the default value screen, indicating it is ready to operate. The value mode can be changed to count mode by pressing the FUNC button.

2.2 Inserting the Bill

To ensure top performance, we have listed the following steps on proper use of the Kolibri Bishop:

I. Avoid inserting a bill that is:

- Crumpled
- Torn
- Heavily worn
- Covered with adhesive
- Stapled
- Wet or heavily stained

II. Ensure the bill is flat and corners are not folded (the Bishop checks the size of a bill and may reject a bill that is folded or has folded corners).

III. Insert the bill face up, all the way to the left side and straight, exactly as shown.



2.3 Authenticating a Bill

After the bill is positioned in the insertion slot, the detector will automatically feed and scan the bill. If a bill is recognized as authentic, the following will occur:

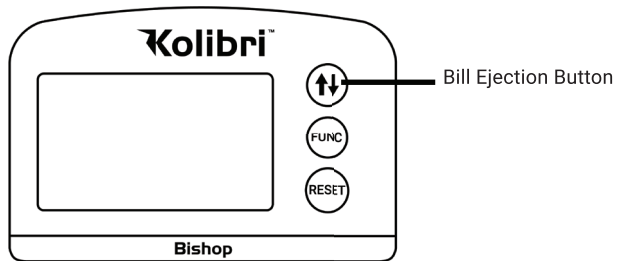
1. The machine will emit a single confirmation beep.
2. The value of the scanned bill will be displayed (if in value mode).
3. The count will increase by 1 and the value of the bill will be added (if in count mode).
4. The bill will be ejected.

If the Bill is NOT recognized, the following will occur:

1. The machine will emit three beeps.
2. An error code will be displayed
3. The bill will be ejected.

2.4 Changing the Direction of Ejection

The direction of the ejected bill can be changed from the front to back by pressing the button with the arrows.

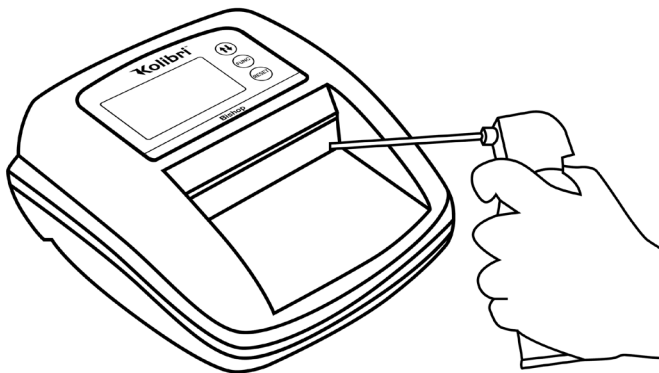


3. MAINTENANCE AND WARRANTY

3.1 Maintenance

Regular maintenance will ensure accurate operation of the unit and will prolong its service life. Use an air duster to remove dust from the sensors. Insert approximately $\frac{1}{4}$ of an inch of the duster nozzle through the front bill insertion slot to blow away any debris that may have accumulated inside the unit.

Do not insert the nozzle more than $\frac{1}{4}$ of an inch into the unit as it may damage the sensor mechanisms inside the Kolibri Bishop unit.



3.2 Troubleshooting

Because of the printing method used by the US Mint, bills are not exactly identical. This will occasionally cause a bill to not to be recognized on the first run in an automatic detector. This may also occur if a bill is inserted with even a slight deviation from the required pathway. The Kolibri Bishop is an advanced machine and will never accept a counterfeit bill. If it recognizes a bill after the second or third attempt, you can be assured that the bill is genuine.

Several factors can cause the Kolibri Bishop to not recognize a genuine bill:

- Overly wrinkled, overly creased and overly worn bills
- A physical shock
- A sudden change in temperature or humidity
- Extended period of non-use

If the Bishop consistently refuses to recognize genuine bills, turn the unit off, unplug it from the wall. Reinsert the plug and turn the machine on to perform a reset.

What does this error mean?

Error Message	Cause	Solution
EE1	Up Magnetism Abnormal	We recommend passing a bill through the detector at least 3 times with the proper orientation and insertion method according to section 2.4 "Authenticating a bill" of the user manual prior to rejecting the note as suspected or counterfeit.
EE2	Middle Magnetism Abnormal	
EE3	Down Magnetism Abnormal	
EE4	Reverse Infrared Reflex Abnormal	
EE5	1/2 Multi-Spectrum Abnormal	If error message continues authentic bills, conduct proper cleaning maintenance on the machine.
EE6	Frontage Reflex Abnormal	
EE7	Infrared Paper, Overlapping	
EE8	Width Abnormal	

Error Message	Cause	Solution
CE1	Encoder Fault	We recommend turning the unit off and performing proper cleaning maintenance on the machine. If error message persists, please see the support section on the Kolibri USA website at www.KolibriUSA.com , or contact Kolibri Support at support@KolibriUSA.com for further troubleshooting.
CE2	Infrared Counter Tube Fault	
CE3	Fault of Starting Coupler	
CE4	Key Circuit	
CE5	Key Circuit	
CE6	Upper Magnetism Abnormal	
CE7	Middle Magnetism Abnormal	
CE8	Down Magnetism Abnormal	

For additional troubleshooting steps, see our FAQ: <http://kolibriusa.com/faq-bishop>

3.3 Warranty

The Bishop is warrantied 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.

- Customer should allow the manufacturer the time and an opportunity to test and diagnose the machine to determine warranty and non-warranty claims.
- After receiving and unpacking the unit, customer shall keep the package and its user manual. Warranties are canceled in the event the device is transported in a non-original packaging or operation/maintenance conditions are not met.
- Company is not responsible for unit malfunction due to improper maintenance, storage, or transportation including, but not limited to mechanical damage.
- Manufacturer is entitled to introduce updated software, not described in the current user manual.

Non-Warranty Service:

The manufacturer can perform maintenance and cleaning for an extra fee. For a non-warranty repair or maintenance quotation, contact our Technical Support team. Warranty service is not available in the following cases:

- Cleaning of the unit from dust and mud.
- Operation or maintenance rules requirements set in the user manual are not met.
- There is mechanical damage to the unit or the sealed portion of the unit have been opened or tampered with.
- There are foreign objects or liquid inside the unit.

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

3.4 Contact Information

Technical Support contact information:

- <http://kolibriusa.com/contact/>

When contacting Technical Support, please have the following available:

- **Product Model** - Located on the back side of the machine.
- **Serial Number** - Located on the bottom of the machine.
- **Nature of the problem** - What happened, and when did it happen?
Did the machine display an error message?
- **Steps already taken to resolve the problem, and the results.**

Kolibri™

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Specifications subject to change without notice.

www.KolibriUSA.com

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