

iBill®

Users Manual

Talking Banknote Identifier



1. Introduction

This manual is designed to guide you in the use and care of the iBill Talking Banknote Identifier. This specially designed unit identifies and announces the denomination of U.S. banknotes.

2. Getting familiar with the iBill

2.1. Orientation of the unit and its Controls

This section will familiarize you with the location and functions of the controls.

Place the iBill unit on a desk or hold the unit in the palm of your hand so that the key ring is located on the BOTTOM and the raised flat surface (the banknote slot) is on TOP. You will find two identical pushbuttons with small ridges on the right and left sides of the unit (the shorter sides). These buttons will be used to identify a banknote, adjust the volume level or to select the desired output mode.

Now turn the unit over so that the BOTTOM side of the unit (the surface with the key ring) is facing upwards. You will feel several short ridges about half inch in length. These identify the cover of the battery compartment and allow you to open it easily.

A standard 2.5 millimeter jack for an earphone is located on the long edge between the two buttons, towards the key ring.

2.2. Replacing the battery

The iBill uses a single AAA alkaline battery for operation and is shipped to you with a battery installed.

To replace the battery, first open the battery compartment cover on the bottom of the unit. The cover can be identified by a ridged pattern. Open the cover, by pushing it outwards, gently but firmly. The battery cover is held securely to the unit by a hinge so that it does not separate from the unit and get misplaced. Care should be taken to avoid applying undue force when opening or closing the cover.

Once the battery cover is open, you will find a silk cloth strip which aids in removal of the battery. The old battery can be extracted by pulling on this silk strip. When inserting a battery, this strip should go around the underside of the battery.

To insert the new battery, hold the unit so that the battery compartment is open and facing upwards and towards you. First, push in the negative terminal (the flat end of the battery) into the left side of the battery compartment. Then push the other end (positive terminal, with a bump), into the compartment and ensure that the battery is secure. You may now close the cover by sliding it and begin use.

For reliable operation of the product, the use of AAA alkaline batteries from reputable manufacturers is strongly recommended.

2.3. Announcement Modes

The unit can be operated in one of three modes – Speech, Tone or Vibration.

In Speech Mode, the unit announces the denomination of the bill in a female voice. In Tone Mode, the unit announces denominations by a pattern of tones of different pitch and duration.

In both Speech and Tone Modes, other indications, such as turn-on or low-battery warnings are in the form of unique tone sequences.

In Vibration Mode, the unit announces denominations by a pattern of vibrating pulses of different durations. Other indications are also in the form of vibratory patterns.

2.4. Announcements and Indications

The following table describes the announcements and indications the unit provides for various events in each of the Announcement Modes.

Event	Speech Mode	Tone Output	Vibration Mode
Turning on the unit	Single short beep		Very short pulse
Announce \$1 bill	"One"	Single beep of low pitch	Short pulse
Announce \$2 bill	"Two"	Two beeps of low pitch	Two short pulses
Announce \$5 bill	"Five"	Three beeps of low pitch	Three short pulses
Announce \$10 bill	"Ten"	Single beep of high pitch	Long pulse
Announce \$20 bill	"Twenty"	Two beeps of high pitch	Two long pulses
Announce \$50 bill	"Fifty"	Three beeps of high pitch	Three long pulses
Announce \$100 bill	"Hundred"	Four beeps in a low-high-low-high pitch pattern	Four pulses in a Short-long-short-long pattern
Un-identifiable bill or no bill inserted	"Error"	Three beeps of different pitch	Very long pulse
Progress of identification	Single short beep of low pitch		None
Volume level selection in speech mode	Single beep of low pitch, at the set volume level		
Tone mode selection	Two short beeps of different pitch		
Vibration mode selection	Single short pulse		
First Low Battery Warning	Two short beeps of high and low pitch		Three very short pulses, after bill is announced
Second Low Battery Warning	Four short beeps of high and low pitch		Three very short pulses, after bill is announced
Battery too low to operate	Three short beeps of different pitch, then the unit turns off		Three very short pulses, then the unit turns off

3. Using the iBill

3.1. Identifying a Bill

Insert the banknote into the slot, under the raised flat surface, such that the short edge of the banknote is parallel to the long side of the unit. Proper insertion is achieved when, with the use of light force, the banknote cannot be pushed any further inwards. Press and release either one of the two buttons located on the shorter sides of the unit. Turn-on is indicated by a short beep or vibration pulse. The unit will announce the denomination of the banknote and turn itself off. The banknote should be held firmly in the slot when the button is pressed.

The banknote may be removed once the unit acknowledges the button press with a beep or vibration pulse. If there is no beep or vibration indication upon pressing one of the buttons, it is likely that the battery is too weak and should be replaced.

The unit will identify most bills within one second. However, if the bill is in poor condition, it may require more time for identification. The unit indicates the progress of the identification process by means of a short, low-pitched beep after one second. In Vibration Mode, the unit does not provide indication of the progress to avoid confusion.

In case the bill is severely damaged and the unit fails to identify the bill, it announces an Error. In this event, the bill should be inserted in a different orientation.

If you choose, you may remove the bill and insert it in a different orientation at any time, and identification can be restarted by pressing either one of the buttons.

If either of the buttons is held continually pressed, identification progress tones are suppressed. If a volume or mode change operation is performed, the denomination of the bill is announced when both buttons are released.

The unit turns itself off automatically after completion of bill identification or a volume or mode change.

3.2. Canceling the current identification cycle

Once the identification cycle has begun, you may wish to cancel the current cycle and restart it due to several reasons, for instance, realizing that the bill was not properly inserted, or if the identification is taking long due to poor condition of the bill. The bill can simply be re-inserted and identification re-started by pressing one of the buttons.

Upon pressing the button, the unit indicates the start of identification just as in the case of normal turn-on, by providing a beep or vibration pulse.

3.3. Changing the Output Mode and Volume Level

The unit provides three output modes: Speech, Tone and Vibration. Three volume levels are available in the Speech output mode. The modes and volume levels are selected by using both push-buttons together. The loudness of the tones in tone mode is fixed and cannot be increased or decreased. It will decrease at low battery levels automatically to extend the life of the battery.

Pressing and holding any one button, and then pressing and releasing the other button changes the volume or mode. Each time the second button is pressed and released, the Output Mode setting cycles between Speech Mode volume levels 1, 2, 3, Vibration Mode and Tone Mode, and then back to Speech Mode volume level 1.

A tone of appropriate volume is emitted at each volume setting to indicate the level chosen. For the Tone Mode, a double-tone of different pitch is emitted. For the vibration setting, a short vibration pulse is emitted.

The Output Mode and volume level can be changed at any time while the device is turned on, even while the unit is in the identification process. The unit continues the identification process upon completion of the mode or volume change.

If either one of the buttons continues to remain pressed after the mode or volume change, the unit will wait until it is released before continuing operation and announcing the denomination.

3.4. Low Battery Indication

The unit continually monitors the battery level during use. A warning is provided when the remaining capacity of the battery reaches approximately 10% of the full capacity. The warning is in the form of two short beeps of high and low pitch in Speech and Tone Modes or three very short vibration pulses and is provided at the end of each denomination announcement.

When the remaining capacity of the battery reaches approximately 5% of the full capacity, the warning tone changes to four short beeps of high and low pitch at the end of each denomination announcement. In Vibration Mode, this warning is in the form of three very short vibration pulses. The 5% and 10% warnings are the same in vibration mode.

If the battery level is deemed to be critically low and insufficient to permit accurate operation, the unit emits 3 short beeps of different pitch or three short vibration pulses and shuts itself off. This can happen when the unit is first switched on or when the volume or output modes are changed. If one of the buttons is kept pressed when the battery is critically low, the unit will emit an intermittent series of beeps. You should not attempt to operate the unit once it starts giving critical low-battery warnings and should immediately replace the battery with a fresh one.

Battery Warning and Volume Level

Battery life and low battery warning signals are highly dependent on the output mode and volume level at which the device is being operated. You may therefore get low-battery warnings at volume level 3 for instance, but if the volume level is adjusted to lower levels, the warnings may stop. This is because higher volume levels and Vibration Mode consume more power

When the battery weakens, the unit will automatically reduce the volume level in Speech Mode to allow continued use and to extend the life of the battery. Therefore, even if you attempt to set a higher volume level, the unit will limit the volume to the maximum level possible with the weak battery. To restore full volume, the battery must be replaced.

If there is no beep or vibration indication upon pressing one of the buttons, it is likely that the battery is too weak and should be replaced.

4. Care of the device

The unit should be protected from dust and liquids. When not in use, keep the unit in a protective water and dust-proof case.

Periodically wipe the unit with a slightly damp, soft, lint free cloth to remove accumulated dust, especially from the area near the bill insertion slot.

Do not drop the unit or subject to forceful impact.

Do not insert foreign objects into the bill slot.

5. Troubleshooting

If you encounter difficulty in using the device, it might be due to one of the following reasons.

5.1. The unit does not turn on

If you are not able to turn on the unit by pressing one of the buttons, the battery should be replaced. You should also check and confirm that the battery is inserted correctly.

5.2. After turning on, the unit turns off without announcing the result

If the unit turns off abruptly without announcing the result, the battery is weak and should be replaced. If the unit gives progress beeps but doesn't announce the result within 3 seconds after turning on, this also indicates that the unit turned off due to a weak battery.

5.3. The unit is not able to identify the bill

1. Try inserting the bill in a different orientation. Often one corner of the bill may be damaged but other corners might be fine.
2. Check to make sure that the bill is fully inserted and properly aligned with the edges of the insertion slot.
3. Try inserting the bill in a slightly different position in the slot, by pushing it a little bit towards one of the two sides of the slot.

4. Check to make sure that the corners of the bill are not folded during insertion. If the corner being inserted does have a fold, unfold it and try again, or insert a different corner.
5. Ensure that the bill is not moved during the identification process.

5.4. The unit does not announce the denomination

The denomination is not announced by the unit if either of the buttons is kept pressed after a volume or mode change operation. Once both buttons are released, the unit will announce the denomination.

If the unit still does not work, please call the U.S. Currency Reader Program Information Line toll free at 844-815-9388 for further assistance.

6. Disclaimers

The iBill Talking Banknote Identifier is designed to assist in the identification of United States Federal Reserve Notes. It does not guarantee the authenticity of currency.

Orbit Research is not be responsible for any direct or indirect consequences following the utilization of the iBill Talking Banknote Identifier.

7. FCC Notice

This device complies with part 15 of FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference (2) this device must accept any interference received, including interference that may cause undesired operation.

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