

Enhanced Zambian Banknotes

The Bank of Zambia is the sole authority mandated by law to issue banknotes and coins as legal tender for circulation in the Republic of Zambia in accordance with Section 4[2] of the Bank of Zambia Act No. 43 of 1996. The Bank seeks to ensure that only high quality banknotes and coins circulate in order to maintain confidence in the Zambian Kwacha as a payment mechanism and a store of value. The Bank also ensures that the Zambian currency is adequately protected from counterfeiting by continually adopting new technology based security features that safeguard the integrity of the currency.

In 2018, the Bank of Zambia has launched enhanced banknotes with new security features to further protect the Zambian kwacha from counterfeiting. The enhanced banknotes' features are shown for each denomination in the pictures below.

K100

SPARK[®] live
Dynamic geometrical pattern which changes in form and size when tilting the note. The colours also change from gold to green for K50 and green to blue for K100

Gold Iridescent Band
A gold iridescent band representing doves runs from the top to the bottom of the banknote

Tactile Marks for the Visually Impaired
Run your fingers along the edges of the banknote: the tactile marks can be clearly felt

Security thread RollingStar[®] Cube
The security thread is embedded in the paper and has a colour changing surface, showing also the denomination and the letters "BOZ". By tilting the banknote, the dynamite light effect of rolling cubes gets visible

Watermark with Highlight
A 3-dimensional image of a fish eagle's head, two highlighted elements, the denominational value, and a small fish eagle's head are visible when the banknote is held against the light

Windowed Holographic Security Thread
The holographic windowed security thread shows the text "BOZ 50" / "BOZ 100" and a "bird in flight". The holographic effect can be recognised on the reverse side of the banknote. The text is readable against the light on both sides of the banknote.

Tactile Intaglio Elements
"K50 / K100", a tree, a fish eagle, and other elements are printed in intaglio with high tactility and can be felt by running one's fingertips over the banknote.

Perfect See-through Feature
The two elements of the see-through register, printed on the front and reverse side of the banknote, form the motifs of a "bird in flight" and " "BOZ" when the banknote is held against the light.

Tactile Intaglio Motifs with Microtext
A leopard/buffalo, the denomination in words, and integrated microtext, and other elements are printed in intaglio with high tactility and can be felt by running one's fingertips over the banknote.

Denominational Value on the Reverse Side Tactile Intaglio Element
The denominational value in the right-hand corner on the reverse of the banknote is printed in intaglio with high tactility and can be felt by running one's fingertips over the banknote.

PEAK[®] Pixel
A coloured latent image on the front of the banknote shows a "fish eagle's head / BOZ" with tactile embossing and colour shift effects which are visible when the banknote is tilted and turned.

K50



SPARK[®] live
Dynamic geometrical pattern which changes in form and size when tilting the note. The colours also change from gold to green for K50 and green to blue for K100

Gold Iridescent Band
A gold iridescent band representing doves runs from the top to the bottom of the banknote

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PEAK[®] Pixel
A coloured latent image on the front of the banknote shows a "fish eagle's head / BOZ" with tactile embossing and colour shift effects which are visible when the banknote is tilted and turned.

K20



1) Tactile Marks for the Visually Impaired

Run your fingers along the edges of the banknote: the tactile marks can be clearly felt

2) Security thread RollingStar[®] Cube

The security thread is embedded in the paper and has a colour changing surface, showing also the denomination and the letters "BOZ". By tilting the banknote, the dynamite effect light of rolling cubes gets visible

3) SPARK[®] live

Dynamic geometrical pattern which changes in form and size when tilting the note. The colours also change from magenta to green.

K10



1) Tactile Marks for the Visually Impaired

Run your fingers along the edges of the banknote: the tactile marks can be clearly felt

2) Security thread RollingStar[®] Cube

The security thread is embedded in the paper and has a colour changing surface, showing also the denomination and the letters "BOZ". By tilting the banknote, the dynamite effect light of rolling cubes gets visible

3) SPARK[®] live

Dynamic geometrical pattern which changes in form and size when tilting the note. The colours also change from magenta to green.

K5



1) Tactile Marks for the Visually Impaired

Run your fingers along the edges of the banknote: the tactile marks can be clearly felt

2) Security thread RollingStar[®] Cube

The security thread is embedded in the paper and has a colour changing surface, showing also the denomination and the letters "BOZ". By tilting the banknote, the dynamite effect light of rolling cubes gets visible

3) SPARK[®] live

Dynamic geometrical pattern which changes in form and size when tilting the note. The colours also change from magenta to green.

K2



1) Tactile Marks for the Visually Impaired

Run your fingers along the edges of the banknote: the tactile marks can be clearly felt

2) Security thread RollingStar[®] Cube

The security thread is embedded in the paper and has a colour changing surface, showing also the denomination and the letters "BOZ". By tilting the banknote, the dynamite effect light of rolling cubes gets visible

3) SPARK[®] live

Dynamic geometrical pattern which changes in form and size when tilting the note. The colours also change from magenta to green.

Frequently Asked Questions (FAQs)

1. What prompted the Bank of Zambia to upgrade the security features on the banknotes?

Advances in technology have provided counterfeiters with better methods for imitating genuine banknotes. Recent reports of increased counterfeiting were the main reason that necessitated the security upgrade in our banknotes. Our study of the counterfeit notes of our currency shows that all the counterfeit notes are scanned copies of genuine banknotes. So to counter this, we have enhanced the visual outlook of the notes by bringing in color shifting features which scanners cannot copy more advanced security features.

2. What are the new features?

To strengthen the security of banknotes and facilitate their verification by the public, the Bank has upgraded the Zambian banknotes as follows;

i. K20, K50 and K100 denominations

- A new security feature called **SPARKLIVE** has been incorporated in the figure on the lower right hand side to further shield these banknotes from being counterfeited. This security feature will exhibit three overt visual characteristics i.e. color- shift properties, optical brightness and dynamic light effects.

- b) **Optically visible security thread** with micro optical dynamic effects has replaced the hologram on the three denominations.
- c) **The 'birds in flight'** feature has shifted from the right edge of the back of the banknote to the left edge
- d) **"The tactile mark"** for the visually impaired have now been put on both edges of the banknotes to enhance tactility or the feel effect.

ii. K10 denomination

- a) A new security thread will replace the hologram on the front of the banknote.
- b) Tactile marks for the visually impaired have been put on both edges of the banknote to enhance tactility.

iii. K2 and K5 denominations

- a) Different images (dove, text K2 and K5) appear as a new glossy varnish with a blind embossing for ease of identification.
- b) Tactile marks for the visually impaired have been put on both edges of the banknotes to enhance tactility.

All other features on the banknotes have remained the same.

3. What will happen to the current banknotes?

The Bank will not withdraw the existing banknotes until the end of their circulation life. This means that the existing banknotes will co-circulate with the upgraded series and will continue to be honored at full value.

4. What security features should you look for on the current banknotes?

The security features to look out for include;

- i. **Gold Iridescent Stripe** - Single line of birds flying in opposite directions;
- ii. **Peak pixel** – Fish eagle's head printed in raised ink with rough feel when you run your fingers over it;
- iii. **Watermark** – Fish eagle's head visible when banknote is held against the light;
- iv. **Value Numeral** – Raised ink showing notes denomination;
- v. **Hologram** – Shiny metallic strip with color shifting properties, showing birds in flight, coat of arms, denominational value when tilted; and
- vi. **Security Thread** – Changes color and shows 'BOZ' and birds in flight when tilted. Thread appears as straight line when held against the light.

5. How is the public expected to remember all the security features?

Bank notes have so many security features that it is not expected that you will remember all of them. Just pick two or three that you are comfortable with to use regularly. You would only need to check more security features if your first checks raise your suspicions. It's the same method for checking all banknotes: touch, tilt and look.

6. How can you reduce the chances of falling prey to counterfeiters?

Members of the public are advised to avoid transacting in unlit places. It is further recommended that high value transactions be settled using electronic payment methods such as Electronic Funds Transfers (EFT), Point of Sale, Debit and Credit Cards (DDACC), RTGS transfers, Mobile Money etc.

7. What should you do if you come into contact with a counterfeit banknote?

If you end up possessing a counterfeit note, the first step is to contact the nearest police station or Bank of Zambia. By passing your note over to the police or Bank of Zambia, they will be able to inspect it to determine if the banknote is in fact counterfeit. Remember, it is illegal to knowingly pass a counterfeit.

8. Will you be compensated if you surrender a counterfeit note?

If you have received a suspect banknote from a member of the public, it is important to note that if the banknote is found to be counterfeit upon examination, the person will not be reimbursed the value of the banknote. If, however, the banknote is found to be genuine, the person will be reimbursed the full value of the banknote.

9. What is the penalty for counterfeiting currency?

Printing of counterfeit notes is illegal and is an offence punishable by law. A conviction for the offense carries up to 7 years in prison and a fine. The maximum penalty for the offence is life imprisonment.

10. How is the public expected to remember all the security features?

Bank notes have so many security features that it is not expected that you will remember all of them. Just pick about three security features that you are comfortable with to use regularly. You would only need to check more security features if your first checks raise your suspicions. Use the same method for checking all banknotes: touch, tilt and look.

11. How should the public handle their money?

Members of the public are encouraged to store their money in a safe manner and avoid folding or tying in fabric. Further, the public is encouraged to open accounts and save their money in financial institutions. The Bank has received sad reports of people losing large sums of money in house fires or from attacks by mice. Therefore, storage of cash should be taken very seriously to avoid losing hard earned income and to ensure the banknotes and coins circulate to their full circulation life.

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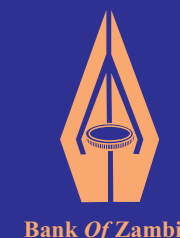
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