

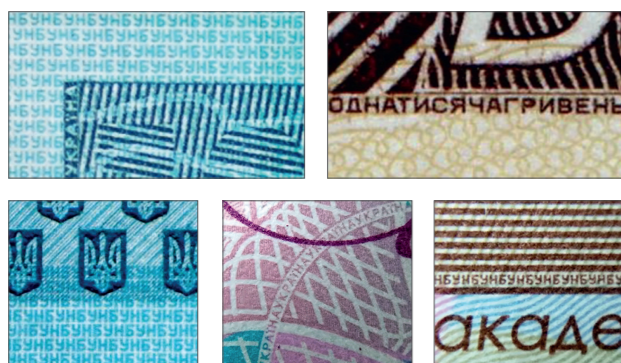
## 9 Rainbow printing

A special type of printing that ensures there is a smooth transition among the main colors of the image, avoiding breaks and displacements.



## 10 Microlettering

Repeated legends that can be read under a magnifying glass.



## 11 Serial numbers

Printed in relief printing:

- horizontally in red ink;
- and vertically (with the numbers having a variable height) in black ink.



## 12 Anti-scan/anti-copy pattern

Made of fine, multi-shaped lines that impede the reproduction of the images by copying or scanning equipment, which will produce a moiré pattern.



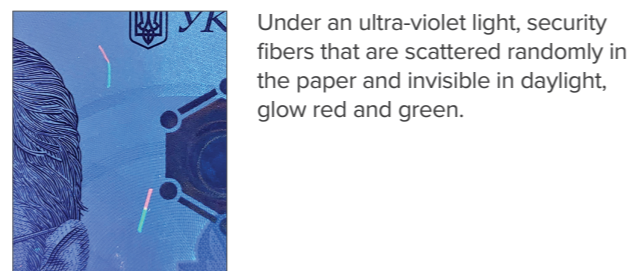
## UV light feature



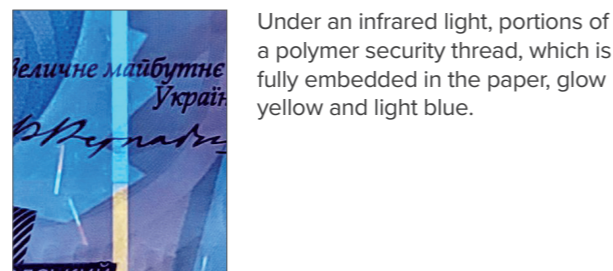
front of the note



back of the note



Under an ultra-violet light, security fibers that are scattered randomly in the paper and invisible in daylight, glow red and green.



Under an infrared light, portions of a polymer security thread, which is fully embedded in the paper, glow yellow and light blue.

## Infrared feature



front of the note



back of the note



Modified 1000-hryvnia banknote designed in 2019 with the patriotic slogan **СЛАВА УКРАЇНІ! ГЕРОЯМ СЛАВА!** (Glory to Ukraine! Glory to the Heroes!)



front of the note

The main image on the front of the note is a portrait of **VOLODYMYR VERNADSKYI**

Volodymyr Vernadskyi (1863 – 1945) was a famous Ukrainian scientist, philosopher, natural scientist, and the founder of the scientific fields of geochemistry, biogeochemistry and radiogeology. He was also one of the founders and the first president of the Ukrainian Academy of Sciences, which was established in 1918.



back of the note

The central design element on the back of the note is an image of the **PRESIDIUM OF UKRAINE'S NATIONAL ACADEMY OF SCIENCES**

The Presidium of Ukraine's National Academy of Sciences was built in the 1850s to a design by architect Alexander Beretti. In 1892, a third floor was added to the building. Its facade features rustication and an attic decorative element with a cast-iron grid. The building was transferred to the Academy of Sciences in 1918.

# SECURITY FEATURES

The banknote is printed on tinted light-blue paper, which is the dominant color of the banknote images. The banknote is sized 75x160 mm.



## 1 Watermarks

The multi-tone watermark is a repeated portrait of Volodymyr Vernadskyi formed by paper fibers in different shades (lighter and darker than the paper); the light watermark element is the numerical indication of the denomination (horizontal, in the right bottom part of the multi-tone watermark).



## 2 SPARK feature

The SPARK feature (optically variable image) is a composition made of stylized fragments of a crystalline grid and a floral ornament, which has dynamic light effects. When the banknote is tilted, some areas of the image gradually change color from gold to jade green.



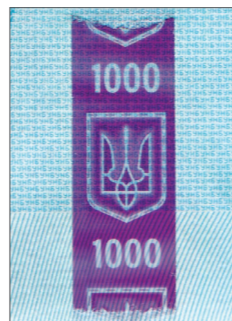
## 3 Security thread

A stripe, fully imbedded into the paper, on which the words «1000 ГРН» Ukraine's small coat of arms (the trident), and the underlined words «1000» can be seen as direct and inverse images under a magnifying glass.



## 4 Window thread

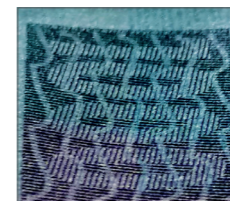
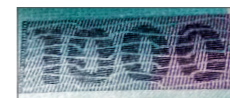
A magenta window stripe that is partially imbedded into the paper, and has pronounced dynamic light effects. The stripe features the numeral 1000 and Ukraine's small coat of arms. When the banknote is tilted in one direction, the background image on the stripe moves in the opposite direction.



## 5 Latent image

When the note is held at a sharp angle to the light at eye level, the numerals become visible:

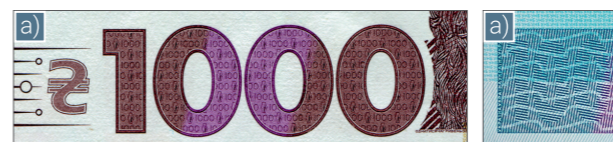
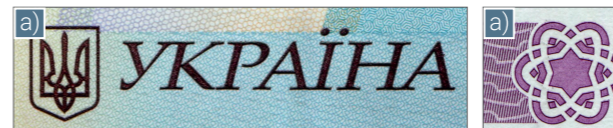
- they appear dark against a light background when the note is looked at from the long side;
- light against a dark background when the note is looked at from the short side.



## 6 Relief features

These are elements on the front of the note that have been made using a special type of printing, and that are rough to the touch. For better visibility, these elements have been enlarged:

- legends and images;
- feature for the partially sighted;
- a fragment of the portrait.



## 7 See-through register

When the note is held up to the light, irregular shapes printed on the back and front combine to form the banknote's denomination «1000».



front of the note

back of the note

to the light

## 8 Orlov printing

A special type of printing that ensures there is an abrupt change of one color into another, without breaking and shifting.

