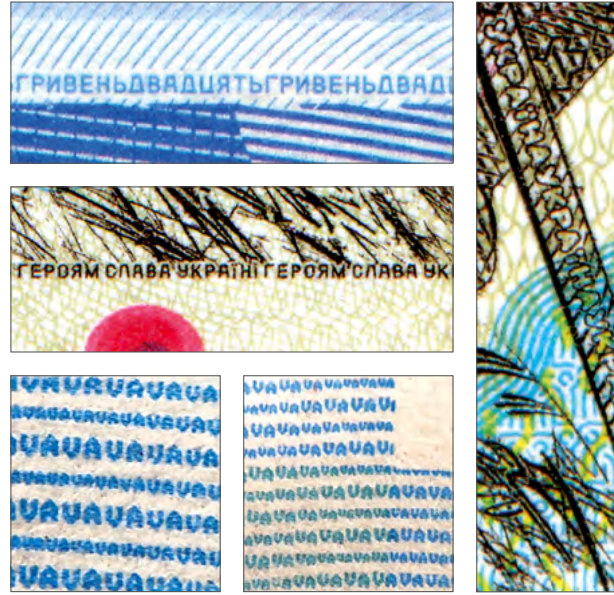


11 Microlettering

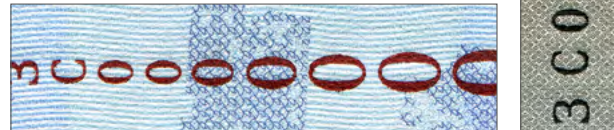
Repeated legends that can be read under a magnifying glass.



12 Serial numbers

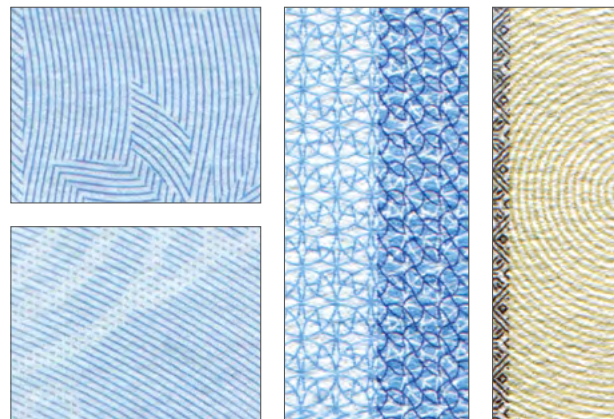
Printed in relief printing:

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



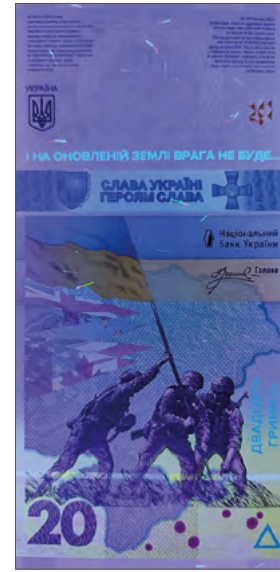
13 Anti-scan/anti-copy pattern

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

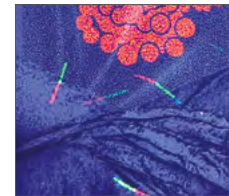


Ultraviolet feature

front of the note



back of the note



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



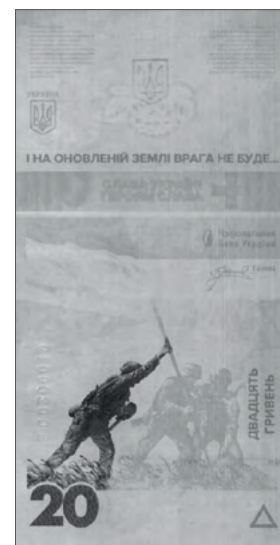
Security thread – portions of a polymer security thread, which is fully embedded in the paper, glow yellow and light blue under an ultra-violet light.



The serial number printed in red ink, which glows orange under an ultra-violet light.

Infrared feature

front of the note



back of the note



National Bank of Ukraine

WE WILL NOT FORGET! WE WILL NOT FORGIVE!
(20 hryvnia commemorative banknote designed in 2023)

This banknote celebrates the resilience, indomitability, heroism and fortitude that Ukrainians show in their struggle against the russian invaders.

front of the note



back of the note



The main image of the front of the note depicts Ukrainian soldiers, who are hoisting a Ukrainian state flag, against the backdrop of fragments of a map of Ukraine and the flags of the countries that support Ukraine.

The main image of the back of the note is a stylized composition that symbolizes the physical and mental suffering of Ukrainians under occupation – hands tied behind a person's back, against the background of crumpled cloth, behind which a figure with a bullet wound in the form of a poppy is suggested.

SECURITY FEATURES

The banknote is sized 80 x 165 mm.

1 Watermarks

The multi-tone watermark is an image of a guelder rose formed by paper fibers in different shades (lighter and darker than the paper); and a light watermark element consisting of Ukraine's small coat of arms.



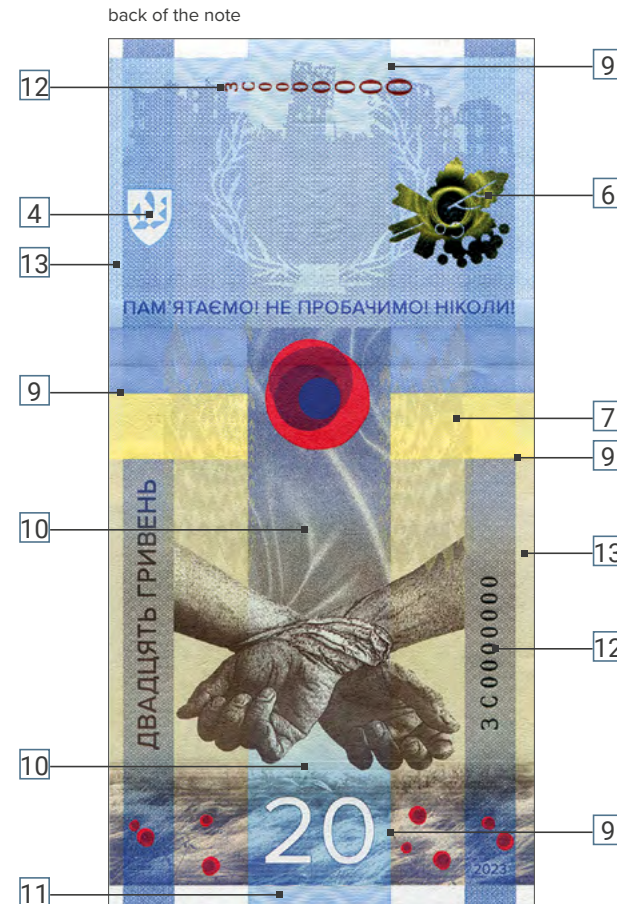
2 Security thread

A stripe, fully imbedded into the paper, on which the words "20 ГРН," Ukraine's small coat of arms, and the numerical indication of the denomination 20 (printed one on top of the other) can be seen as direct and inverse images under a magnifying glass.



3 Wide security thread

A 12 mm navy-blue wide polymer thread that has a combined optically variable effect. The thread features the legend СЛАВА УКРАЇНІ / ГЕРОЯМ СЛАВА (Glory to Ukraine / Glory to the Heroes), a stylized image of the shoulder patch of Ukraine's Armed Forces, and the emblem of Ukraine's Armed Forces. When the note is looked at from different angles, the hryvnia graphic sign is replaced with the logotype of the National Bank of Ukraine.



4 See-through register

When the note is held up to the light, irregular shapes printed on the back and front combine to form a stylized image of the shoulder patch of Ukraine's Armed Forces.



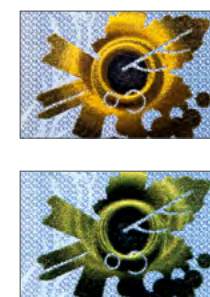
5 Optically variable ink (OVI)

When looked at from different angles, the numerical indication of the denomination changes its color from gold to olive green.



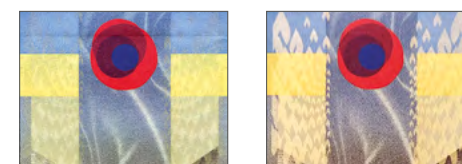
6 SPARK feature

The SPARK feature (optically variable image) is a composition made of stylized fragments of a guelder rose branch and an anti-tank hedgehog, which has dynamic light effects. When the banknote is tilted, some areas of the image gradually change color from gold to jade green.



7 Iridescent feature

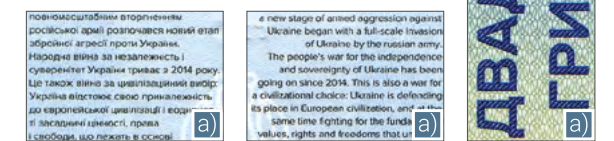
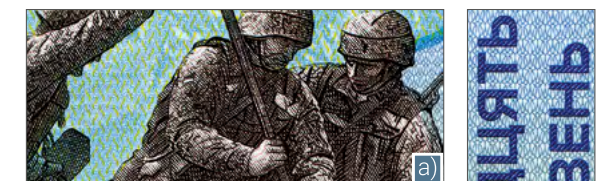
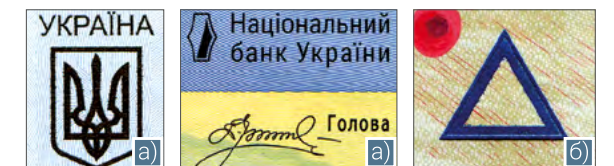
An optically variable image of stylized wings made of candle flames that has a bright mother-of-pearl effect. The image is gold in color when the note is held up to the light.



8 Relief features

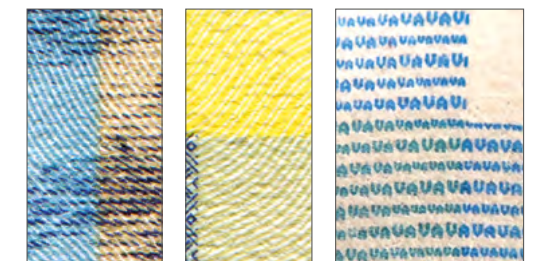
Image elements that are rough to the touch (for illustrative purposes, enlarged images are provided):

- a) legends and images
- b) feature for the partially sighted.



9 Orlov printing

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



10 Rainbow printing

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

