



Giesecke+Devrient  
Creating Confidence

# Taking confidence to the highest level.

The M-Feature®



M-Feature®  
SECURED

# Invisible. Invincible.

## Mighty. Machine-readable. Modular.

**The M-Feature® is the most powerful and flexible Central Bank security feature.**

With the M-Feature®, we have set the standard for banknote security. As the technology leader in this field, we drive innovations and continuously advance banknote security. Functionalities, anti-counterfeiting, efficiency, and robustness: Everything that matters at Level 3 is permanently checked and improved.

Thanks to our intensive research and continuous development, the first feature of its kind is the most modern and innovative one. It can be integrated into the substrate, printed onto the banknote using various print technologies or even works as a combination of both. It can adapt to the Central Bank's needs and can even be added to a running series.

The only thing that can't be done with it: It can't be counterfeited, no matter how hard forgers might try.

## The impenetrable barrier against counterfeiters.

Everyone knows how to authenticate a banknote at Level 1. After all, that's what features like security threads and foils are made for.

At Level 2, sensors and machines are needed to recognize the corresponding features.

M-Feature® security, on the other hand, is covert and specifically designed to Central Bank use. The world's leading Level 3 authentication solution is a unique combination of security feature and sensor that makes the M-Feature® an insurmountable obstacle to any counterfeiting attempt. Even if sophisticated counterfeits are able to pass the first and second barrier and reach the Central Bank, they will be detected.

LEVEL 1

LEVEL 2

LEVEL 3

M-Feature®  
SECURED



# A powerful tool for Central Banks.

## Securing the efficiency of banknotes.

Best-in-class processing efficiency has made us the market leader in Central Bank authentication and the M-Feature® the pacemaker for the sorting shop floor. Sorting with the M-Feature® tremendously reduces the number of rejects in a high-speed machine – by up to 80%.

Counterfeits are securely detected and easily dealt with during the sorting process. No other feature generates a higher processing efficiency without compromising security.

Traditional sorting, on the other hand, can generate thousands of rejected notes every day, which have to be handled manually.



## Building a solid foundation for trust in a currency.

The M-Feature® builds the foundation of trust into a currency: It keeps the Central Bank in the position to control the cash cycle under any circumstances, even in the face of sophisticated counterfeits or politically motivated attacks. In the event of an upcoming counterfeit wave, it is a reliable early warning system.

Unambiguous banknote authentication and counterfeit detection is in the DNA of every M-Feature® solution – not only for single notes but also for the huge volumes a Central Bank processes every day.

Full control of banknote authenticity keeps the Central Bank able to act.

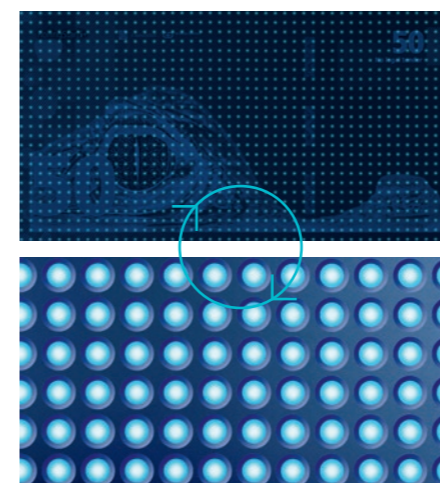




# Unambiguous authentication.



M-Feature®



M-Feature® Detector

The M-Feature® is not just a security feature. It is a unique, comprehensive system composed of the feature material integrated into the banknote and the corresponding sensor that identifies the secrets of the M-Feature®. In this way, authentication without any doubt can be ensured.

That's why the M-Feature® not only gives a country's banknotes maximum security. It also gives maximum security to those responsible for them at the Central Bank, since the M-Feature® also functions as reliable risk insurance: It makes sure no counterfeits can leave the Central Bank. It even ensures that no counterfeits are shredded unnoticed.

**Creating peace of mind.**

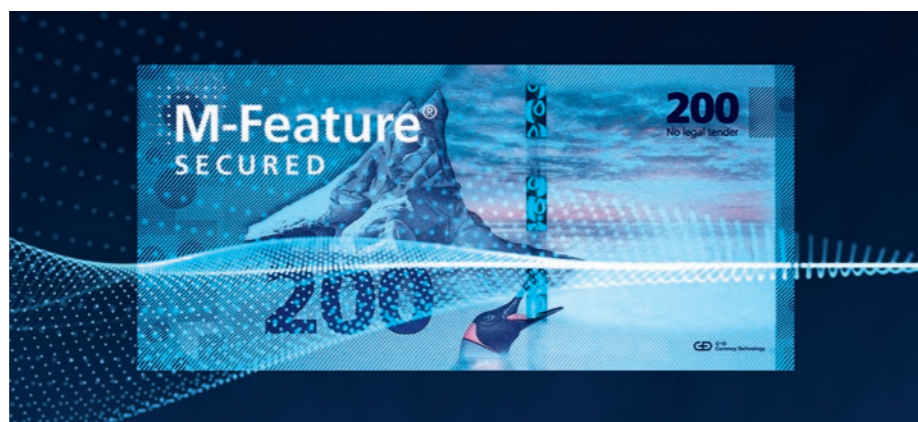


# Maximizing options. Minimizing risks.

## Adapts to the most diverse needs.

No matter which functionality a Central Bank prefers, there's an M-Feature® solution for it. Whether embedded or printed, whoever is producing the banknote, and no matter which high-speed machine is used for sorting the banknotes: The M-Feature® simply works perfectly. Our sensors perform consistent authentication for all banknote conditions.

Using the M-Feature® system, the Central Bank has full control over their banknotes – anytime and anywhere.



- + M-Feature® integration into paper and print
- + High-speed processing systems of all manufacturers
- + Single note inspection at printworks
- + Analysis in forensic and counterfeit laboratories

## Total design freedom.

The M-Feature® is invisible – giving maximum freedom to the design of the banknote. This allows the Central Bank to design the most beautiful banknotes with the most sophisticated security solution.





More variety.  
More flexibility.  
More security.



Whatever the customer requirements are, we have the solution. We have created the largest portfolio of Central Bank functionalities: Exclusive solutions, composed note detection, series discrimination, in-country activation, and secret forensic marking are only some examples of the range of solutions developed by G+D and implemented together with our customers.

New functionalities can be added even within a running series, ensuring banknotes are prepared best at all times. And we continue setting the standard for Level 3 authentication by steadily developing new functionalities for the M-Feature®.

As a result, not only is the innovative power of this security feature growing, but so is the number of Central Banks that trust in it. More and more currencies and denominations count on the unbeatable performance of the M-Feature®: Today, more than 70 Central Banks rely on the M-Feature®, which provides innovative, robust, and reliable protection for hundreds of denominations worldwide.

**The M-Feature® reliably secures more than 100 billion banknotes in circulation – in other words, there are 100 billion reasons to choose G+D's Level 3 solution.**

MORE THAN **70** CENTRAL BANKS  
RELY ON THE M-FEATURE®.





# **M-Feature<sup>®</sup>** means: **SECURED**

- + Ultimate Level 3 security for banknotes**
- + Best-in-class robustness**
- + Highest efficiency in the cash center**
- + Continuous innovation and functional enhancements**
- + The most trusted and proven standard for Central Bank authentication**

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2022 Subject to change without notice.  
The pictures presented in this brochure are schematic  
only and do not display M-Feature<sup>®</sup> detectors.



Find more information  
on our website:

[www.gi-de.com](http://www.gi-de.com)