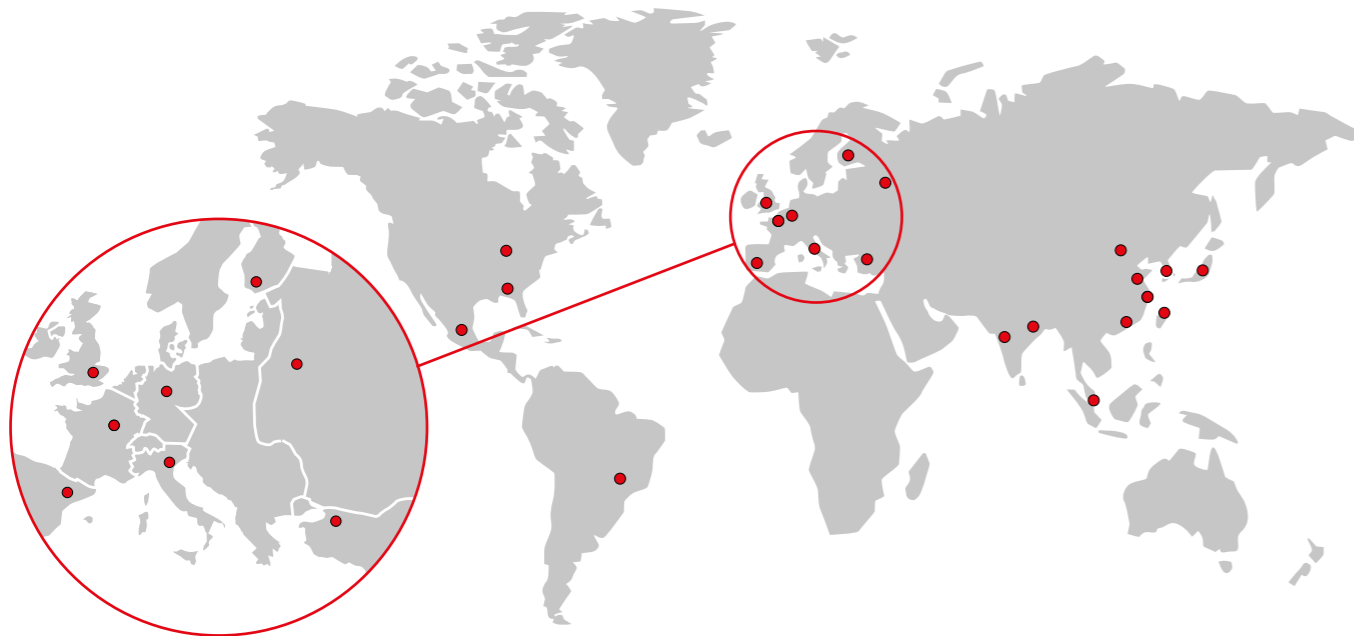


## Innovations for Automated Optical Inspection



**We are the innovators in optical inspection.  
Best practice. Best system. Best service.**

For over three decades, ISRA VISION has become a leading manufacturer of highly accurate automated optical quality inspection systems.

More than 10,000 successful applications reference our sustainable experience in the field of machine vision products – and our ability to innovate.

Today our products are operating worldwide in such industries as glass, plastics, foils, print and automation. It is our goal to set system standards for total process control in these industries.

Customers choose ISRA for the ability to develop products consistently to their requirements. More than 900 employees at 25 locations worldwide are working to contribute to your success.

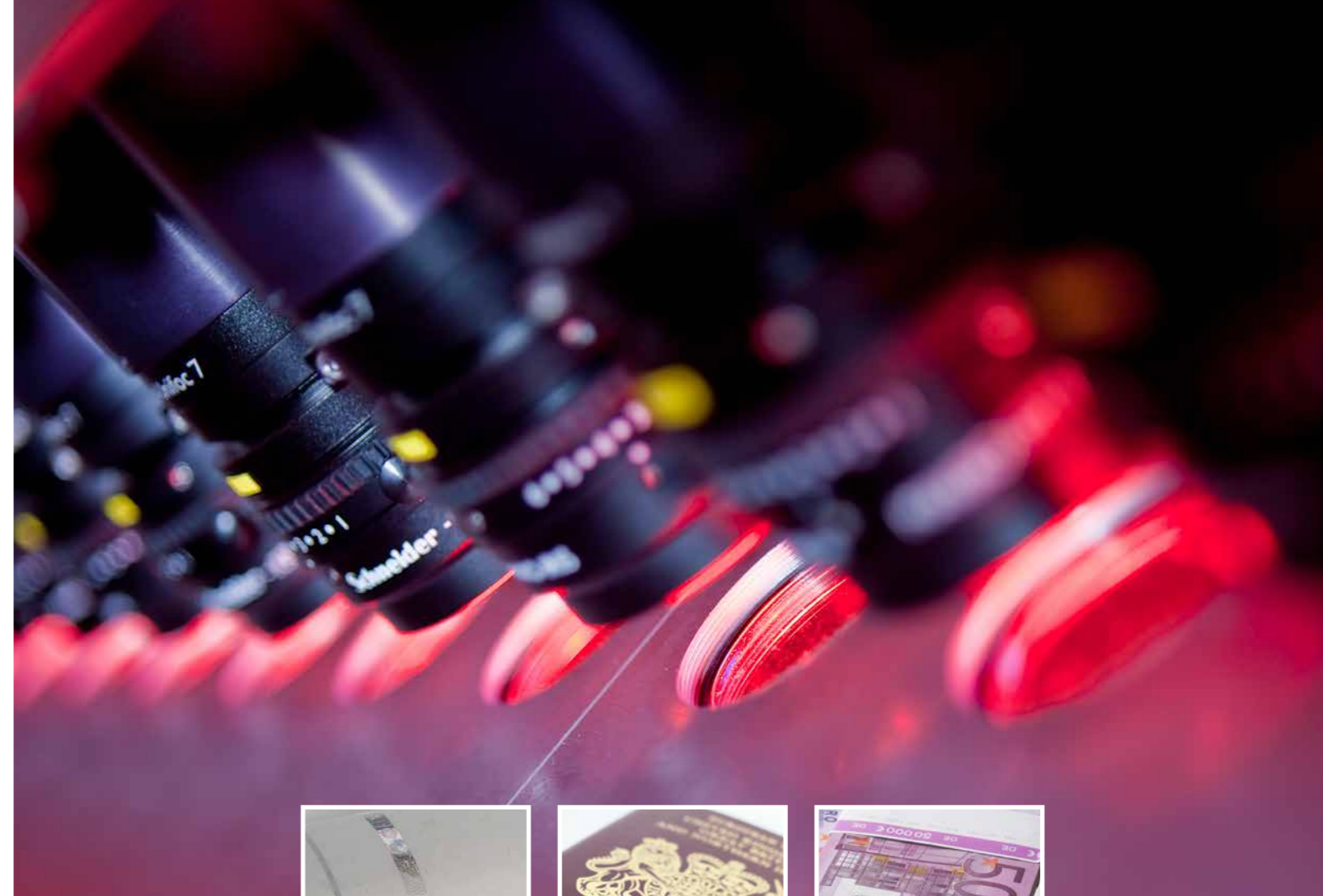
**Your global partner for surface inspection.**

We offer our experience and a highly qualified team of experts to design and implement solutions for advanced applications.

We assure that our mission continues beyond our shipping dock. Just challenge our Customer Support and Service Center (CSSC).

We guarantee excellence to our customers – from consulting to service, from tailored solutions to worldwide support. We can make your business more competitive.

**Challenge Us.  
Inspect to Control – with ISRA VISION**



# BankSTAR Gen4

A quantum leap  
in security substrates inspection

### ISRA VISION

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Belgium Tel.: +49 (2366) 930 00	Italy Tel.: +39 (0464) 490 603	Brazil Tel.: +55 (11) 347 611 32	P.R. China Tel.: +86 (21) 685 002 88	Taiwan (R.O.C.) Tel.: +886 (3) 250 01 48
Spain Tel.: +34 (93) 839 70 32	UK Tel.: +44 (1442) 261 202	Turkey Tel.: +90 (212) 285 97 45	Japan Tel.: +81 (45) 534 99 11	India Tel.: +91 98 23 16 24 55

Optimize your ROI with the technology leader **ISRA**  
[info@isravision.com](mailto:info@isravision.com) [www.isravision.com](http://www.isravision.com)

**ISRA**  
VISION



## BANKSTAR GEN4 - ADVANCED IN-LINE INSPECTION TECHNOLOGY

### BASED ON OVER 30 YEARS OF INNOVATION

BankSTAR Gen4 is the latest and most advanced generation of the acclaimed BankSTAR product family. Drawing on more than 30 years of experience serving the security substrates industry, BankSTAR Gen4 has been optimized for thoroughly screening the properties and features of today's security substrates. The real-time quality data generated by BankSTAR Gen4 enables manufacturers to uphold rigorous quality standards and cut costs by optimizing processes, increasing efficiency and boosting yield.

BankSTAR Gen4 couples a modular software platform with innovative imaging hardware. Besides brighter-than-ever LEDs and cutting-edge industrial PCs, BankSTAR Gen4 boasts ISRA VISION's own high-performance cameras with up to 1.32 GPx data throughput and 160 kHz line-scan frequency, as well as a new generation of ISRA VISION's signature image pre-processing boards. BankSTAR Gen4 offers maximum performance and flexibility to meet any inspection requirement and accommodate any budget.

### BankSTAR Gen 4 – Advanced Technology for High-End Security Substrates Inspection

Deliver flawless security paper that meets your customers' high standards.

BankSTAR Gen4 in-line web inspection systems are specifically designed and crafted to be installed within security paper, composite and polymer substrate manufacturing lines. They can be deployed in various configurations, addressing all steps of security paper production – paper machine wet and dry section, slitter, converting line, and sheeter.

BankSTAR Gen4 substrate inspection screens the substrate for defects and ensures that all security elements are defect-free. By detecting defects as early as possible within ongoing processes, the systems prevent further processing of defective material, making production more efficient.

BankSTAR Gen4 combines unsurpassed optical performance with the most complete security substrates solutions portfolio:

- Special features for composite and polymer substrates
- Measurements overview screens – all measurements at a glance
- Security fibers density monitoring under UV and white light
- MTS interface with central access point for the entire quality assurance infrastructure
- Flexible passport mode with freely configurable sheet layout



### BankSTAR Holo • BankSTAR Foil State-of-the-Art Surface Inspection for Security Foils

Compliance with the toughest security requirements through seamless inspection of all production stages.

ISRA's full range of surface inspection systems covers all inspection tasks. The BankSTAR Holo product was developed specifically for the unique challenges in the production of foils with holographic features and motion effects.

The systems detect all defects early on, preventing damaged material from being further processed, incurring more expenses. At the same time, the systems also provide valuable data for optimizing products and processes.

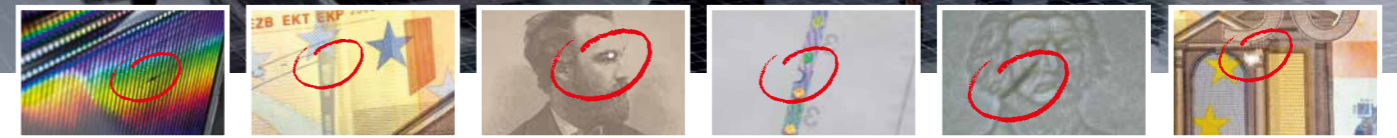
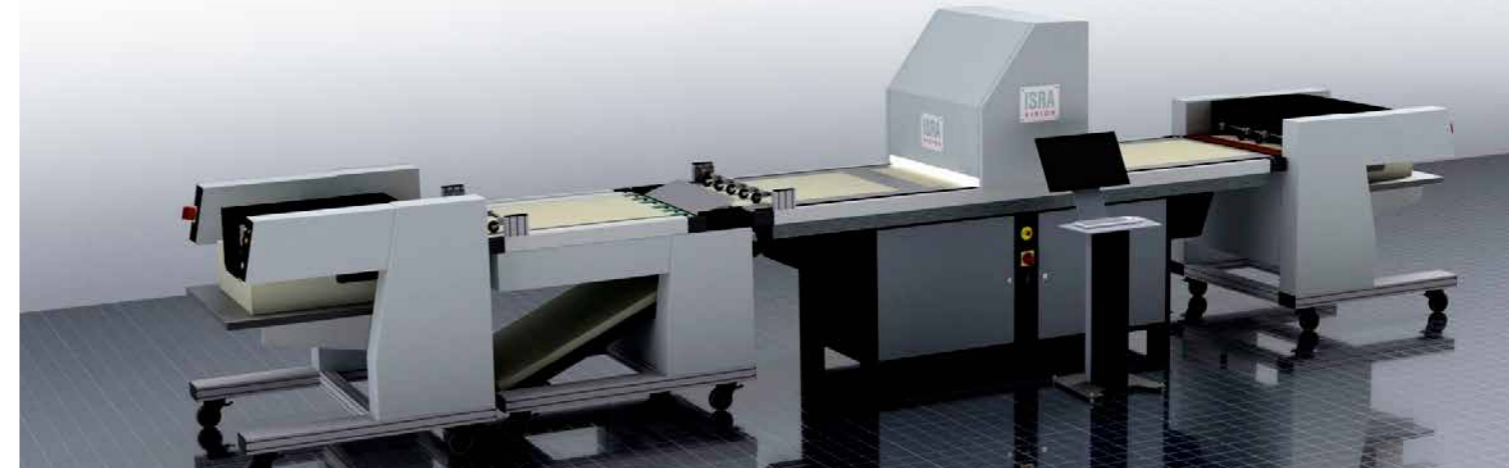
BankSTAR Holo offers inspection solutions tailored to the unique requirements of embossing, printing and metallization processes and ensures efficient waste management.

BankSTAR Foil applies the same sophisticated technology as BankSTAR Holo to the inspection of security foils with or without texts or other designs:

- Single system with a unique combination of features for inspecting holographic and other security foils
- Monitoring of Diffraction Efficiency
- Monitoring of transversal stretch
- Registration between Hologram and Print



## ALL-IN-ONE SUPPLIER FOR SURFACE INSPECTION OF SECURITY PRINTING



### BankSTAR PR

Meet rigorous demands and boost the efficiency of your production in security and high-security printing.

ISRA offers seamless quality monitoring throughout the production process. Our high-end BankSTAR PR defect detection system supports all known processes in security printing and takes their unique characteristics into account when inspecting the printed image.

But this is not where the story ends. Thanks to the broadest solution portfolio in the industry, ISRA VISION's acclaimed print inspection leaves nothing to be desired.

#### Stand-alone security print inspection line

A modular conveyor/sorter solution with inspection table, sheet transport, feeder, stacker, and reject gate makes mechanical integration problems a thing of the past. Just move your sheet inspection system out of the printing line and onto the ISRA VISION inspection table!



#### Keep your security features afloat

Our next-generation floating features algorithm applies unseen accuracy and precision to the inspection of OVIs, holograms, lenticular printing, and any other object with no static location.

#### Never again drop a digit

Codes and serial numbers no longer require a separate verification device. BankSTAR PR does that job, too. The legibility and positioning of variable data are checked, and values are verified and compared to an electronic reference.



### BankSTAR inspection systems by ISRA VISION

- All-in-one supplier for all security substrates and security print inspection solutions
- Cutting edge technology put to work for you
- Smart factory integration by interfacing material tracking and advanced analytics
- Auditable documentation
- Global footprint and service network