



## ISRA VISION – pioneering technology from the market leader. 100% Optical Quality Inspection

For more than 30 years, ISRA has been gathering valuable experience in the field of optical inspection technology. Our systems continuously help manufacturers of a broad variety of materials achieve best quality results and increase yields.

ISRA is well aware of the responsibilities and challenges related to the quality control of security documents. This is why we only use state-of-the-art technology and our long standing expertise to compose an uncompromising level of safety along the entire production line. Major security paper suppliers around the world already trust ISRA technology to attain immaculate quality – more than 80% of global

banknote paper is inspected by using machines delivered by ISRA.

We will be glad to create confidence for your business. Take our word for it and challenge us.

### Focus on service:

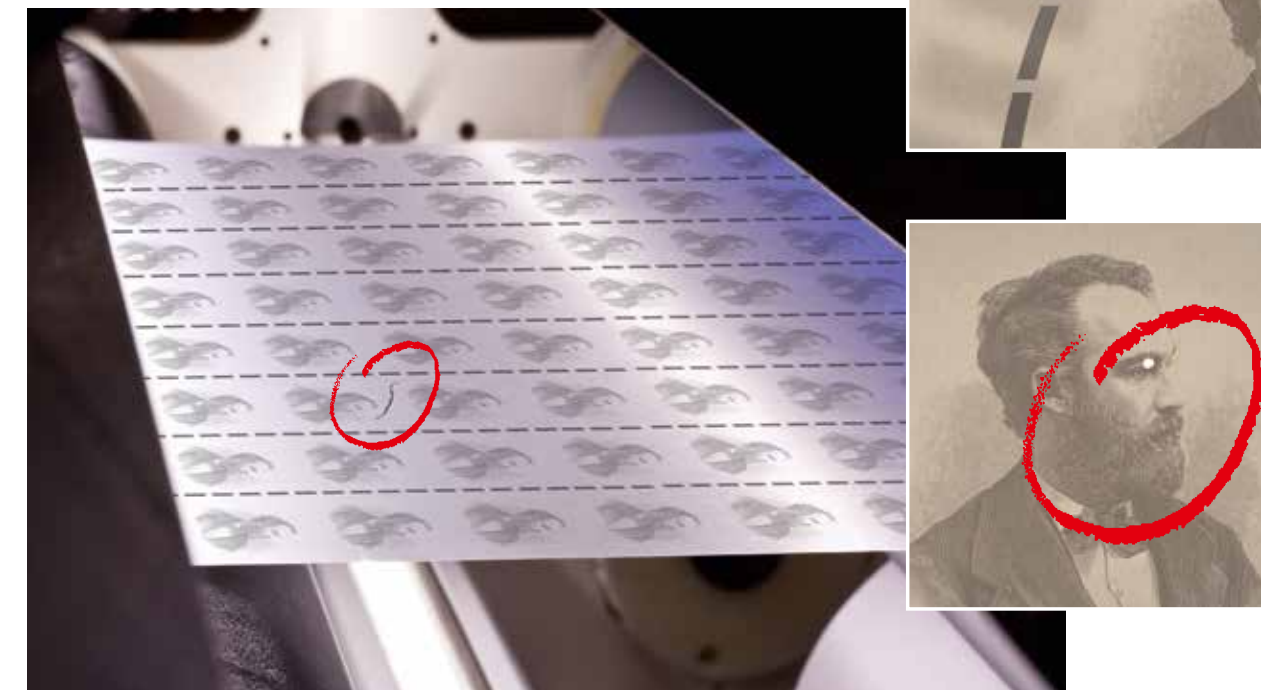
According to the ISRA philosophy, the customer relationship does not end with the installation of a system. Our global service and support network is only one phone call away, ready 24/7 to offer quick assistance wherever you are.

### Our commitment. Your benefits:

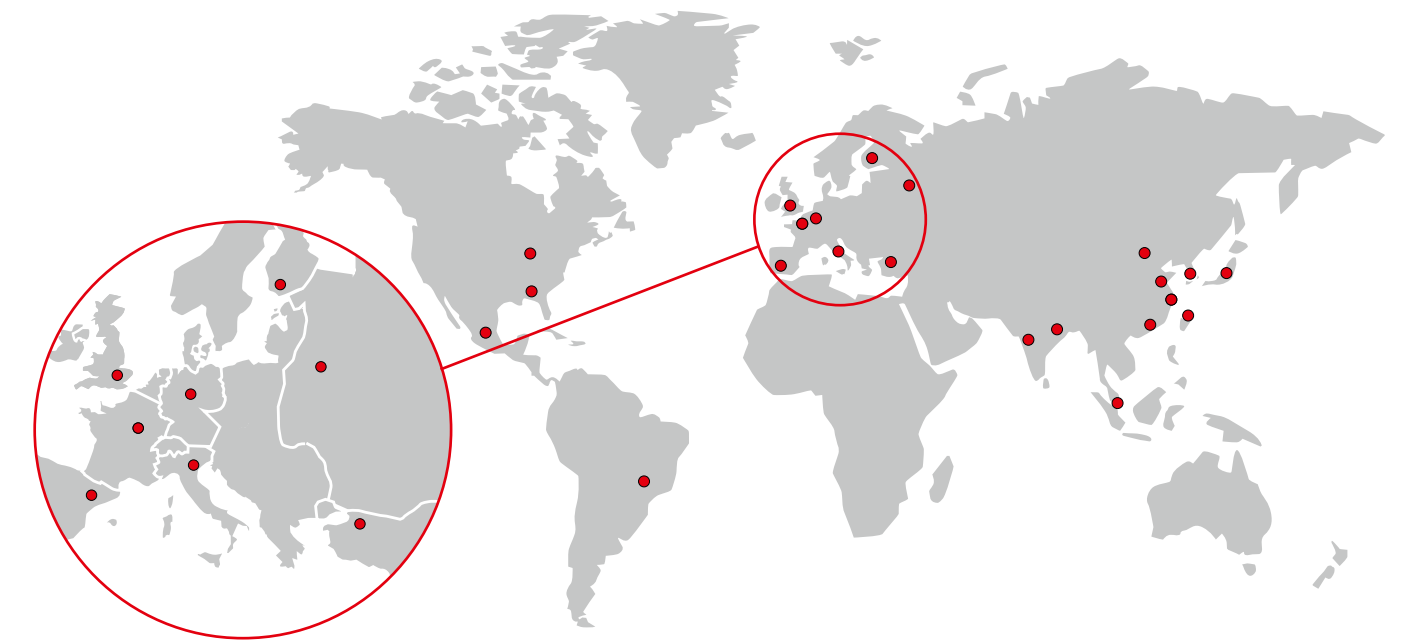
- 100% product quality
- Unmatchable security standards along the entire production chain
- Avoidance of added value to defective material
- Process optimization for decreased production costs
- Global service and support network

**ISRA Systems inspect more than 80% of the global banknote production**

**ISRA Systems inspect more than 80% of the global banknote production**



## Innovations in Automated Optical Inspection for all Advanced Materials



**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**

## Ensuring value, securing trust. INSPECTION SOLUTION FOR THE SECURITY INDUSTRY

OVER 30 YEARS OF EXPERIENCE IN  
OPTICAL INSPECTION

**ISRA**  
VISION

### ISRA VISION

Germany Tel.: +49 (2366) 930 00	France Tel.: +33 (0) 155 681 250	USA Tel.: +1 (770) 449 77 76	Russia Tel.: +7 (921) 055 63 30	Korea Tel.: +82 (31) 806 973 00
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)



# BankSTAR

Advanced in-line inspection technology based on over 30 years of experience



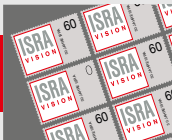





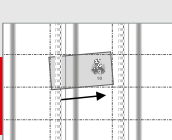



The BankSTAR product line provides the highest inspection reliability for security paper, security foil and all applied security elements. Enjoy the confidence of a 100% inspection of materials such as banknote paper, security printing, passports, stamps, certificates, ID-documents, checks, customs banderoles and tickets. High-end technology components

like high-speed, high-resolution line-scan cameras, ultra-bright illumination modules, such as visible, ultraviolet and infrared lighting, and real-time processing deliver precise and reliable inspection results at any stage within the production process.

Achieve superior quality and improve process efficiency based on highest security standards!

## Why choose BankSTAR?

- 100% defect detection on security paper, security foil and on all applied security elements
- Outstanding inspection at highest processing speeds
- Reliable real-time classification
- Avoid adding value to waste material
- Low maintenance requirements
- Increase saleable product
- Short ROI quick setup, easy usability
- Complete process monitoring
- Yield optimization

<b>Security Threads</b>		<b>Holographic Objects</b>	
<b>Security Print</b>		<b>Contamination</b>	
<b>Substrate Defect</b>		<b>Iridodin Print</b>	
<b>Thin Places / Pinholes</b>		<b>OVI Print</b>	
<b>Sheet Desquareness</b>		<b>Color Measurement</b>	
<b>E-Types</b>		<b>Watermarks</b>	

ISRA optical inspection systems: providing top-level security where it is needed the most.


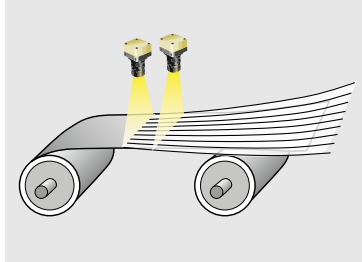

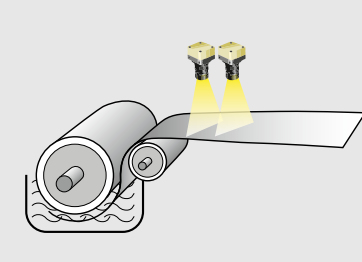
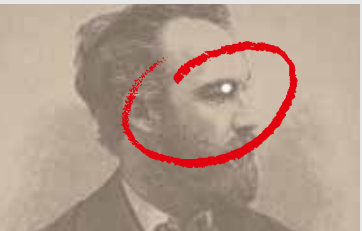
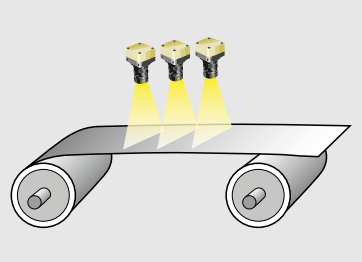

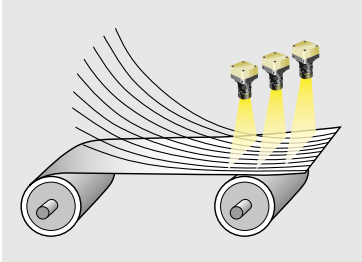

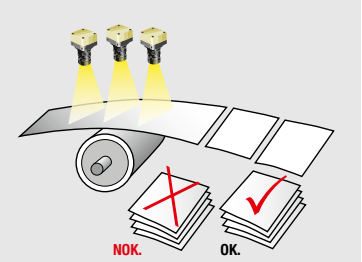

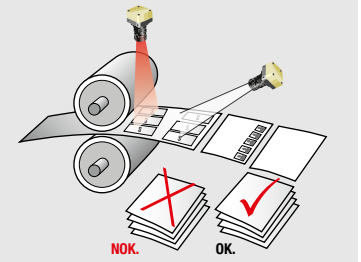
The best just got better!

# Security is crucial. Confidence is priceless. It is our mission to provide both.

ISRA Systems inspect more than 80% of the global banknote production

BankSTAR secures quality by inspecting the surface and security elements beginning with the incoming material. As defective material can be identified at an early stage, no further value is added. The system works to your advantage and serves not only as an high-end inspection tool before shipping to your customer but also as means to optimize production efficiency and to reduce costs.

All defects are shown in full resolution and all deviations are marked and classified accordingly. This ensures the most accurate quality control and full process monitoring. All members of the BankSTAR family are linked, providing outstanding data management opportunities. Process information is documented and available at any time.

<p><b>Incoming</b> BankSTAR Holo</p>   <p><b>Hologram Inspection</b></p>	<p><b>Paper Machine</b> BankSTAR WS</p>   <p><b>Security Thread Inspection</b></p>	<p>BankSTAR PM</p>   <p><b>Paper Inspection</b></p>	<p><b>Converting</b> BankSTAR OV</p>   <p><b>Optical Variable Elements Inspection</b></p>	<p><b>Cross Cutter</b> BankSTAR CC</p>   <p><b>Cross Cutting Inspection</b></p>	<p><b>Print</b> BankSTAR PR</p>   <p><b>Print Inspection</b></p>
--	--	---	---	---	--

## Meet the members of the BankSTAR product family:

### BankSTAR Holo

Inspection of embossing, printing and de-metallization of incoming security foils and threads

#### Benefits:

- No added value on waste material
- Early separation of defective material
- Improvement of production efficiency

### BankSTAR WS

Inspection of security thread, watermark quality, and the additional thread elongation measurement at the wet section

#### Benefits:

- Early defect detection
- Shortest reaction time for operator to fix quality
- Documentation of thread and elongation, e.g. for the new Euro

### BankSTAR PM

Inspection of all security elements in the paper, E-types and security threads at the dry end

#### Benefits:

- Exact data on paper geometry
- Precise information on paper quality and capacity of good production
- Avoid adding value to defective material
- Easy identification with ink marking unit

### BankSTAR OV

Inspection of all elements that are finished through the OV process: all foil applications LEAD, iridescent printing, OVI printing and primer printing

#### Benefits:

- Recognition of defects during foil application
- 100% inspection of iriodin print
- Most precise inspection of OVI printing

### BankSTAR CC

Inspection of all kinds of applied security elements at the cross cutter, before they are shipped to the print shop

#### Benefits:

- Deliver reams with 100% perfect quality
- No manual hand sorting necessary

### BankSTAR PR

Inspection of print on banknotes, stamps or cards is based on visible and invisible printing processes such as intaglio, offset, infrared, rainbow, and screen print

#### Benefits:

- Best quality control to keep the highest security standards
- Highest production efficiency
- Easy adaptation to future printing structures for sheet-fed printing as well as roll-to-roll printing

**Service Package: 24/7 real-remote support +++ Preventive Maintenance +++ Training +++ Updates of security features +++**