

Address	ISRA VISION ISRA SURFACE VISION GmbH Albert-Einstein-Allee 36-40 45699 Herten
Country	Germany
Phone	0049 2366 9300 0
Fax	0049 2366 9300 230
Internet	www.isravision.com
Employees	700
Year founded	1985
Export Rate	60 %
Associations	VDMA

CONTACT PERSONS

Contact 1.	Mr. Bertrand Mercier Business Unit Glass Vice President Phone: +49 2366 93 00 326 Fax: +49 2366 93 00 230
Contact 2.	Mr. Jens Kayser Key Account Manager Automotive Glas Phone: +49 2366 93 00 271 Fax: +49 2366 93 00 230
Contact 3.	Mr. Norbert Wolski Manager Support Phone: +49 2366 9300 298 Fax: +49 2366 9300 230
Contact 4.	Ms. Britta Becker Marketing Manager Phone: +49 2366 9300 241
Contact 5.	Mr. Stefan van Gemmern Sales Office Manager Phone: +49 2366 9300 324 Fax: +49 2366 9300 230
Contact 6.	Mr. Dr. Dirk Hanusch Phone: +49 6151 948 184 Fax: +49 6151 948 140
Contact 7.	Ms. Vera Klinke Product Management High End Inspection Phone: 0049 6151 948 167 Fax: 0049 6151 948 140

PRODUCTS OR MACHINERY

Off-line and in-line glass inspection systems for all production stages of various glass types

Float glass

A highly innovative product portfolio of **optical inspection systems** is available for the entire range of float glass inspection. It significantly helps to optimize the production process and to increase quality. The inspection systems are placed in operation at every step of the production chain, not only to inspect visual defects and for quality control purposes, but also as a means to optimize the processes themselves.

- In-line thickness measurement at the hot end
- In-line defect inspection (distorting and point defects)
- In-line optical measurement
- In-line thickness measurement at the cold end
- Stress measurement of glass

Automotive and bent glass

For automotive and bent glass production a **wide range of inspection solutions for different applications** is offered, including:

- Fully automated end-of-line inspection of automotive screens
- Measurement of transmitted and reflected distortion
- In-process 3D measurement of complete automotive screens
- Silk print inspection and even more
- 100% in-line inspection for glass surface defects

Coated Glass

The **fully automated optical inspection systems** for the continuous inspection of coated glass at any processing stage allows for 100% in-line detection of coating, color, color differences, inhomogeneities, surface, edges and shape – all at the same time, even in mixed batches.

Inspection systems for all coating processes:

- On-Line building coating (Pyrolitic)
- Off-line building coating (Magnetron)
- Off-line technical coating (TCO, E/C, anti-reflective)

Processed glass

To account for the needs of glass plate manufacturers, the modular **PowerPlate (P²) line of optical inspection** is available, consisting of nine products which can be combined randomly to appeal to the variety of different customer needs:

- P²-SIZE: non-contact inspection of the plate's geometry after cutting
- P²-INSPECT: 100% in-line inspection for glass surface defects
- P²-COATING: complete surface coating quality control
- P²-LAMI: in-line lamination inspection
- P²-CONTOUR: in-line contour inspection
- P²-EDGE: reliable inspection of glass edges
- P²-OPTICS: for comprehensive optics inspection
- P²-3D: for non-contact measurement of flatness and form
- P²-COLOR: for 100% color coating inspection

Thin and display glass

Thin glass for state-of-the-art applications is subject to exceptionally high quality requirements. To assure this, ready-to-use **in-line inspection systems** based on standard modules are offered to monitor and to control the quality of the flat glass ribbon and thin glass sheets.

The Flat Panel Master (FPM) product line for example is a complete solution for the **contact-free in-line inspection of thin glass substrates** consisting of:

- FPM-PARTICLE: counting of smallest particles down to microns to assure clean room stability
- FPM-INSPECT: detection of surface defects
- FPM-EDGE: edge and size measurement to minimize breakage and assure best grinding
- FPM-REVIEW: analyzing of selectable defects of interest

Pattern and cover glass

Fully automated inspection systems to detect and distinguish defects – typically open and closed bubbles, stones and knots:

- PATTERNSCAN-Ribbon for the patterned glass ribbon
- PATTERNSCAN-Sheet for patterned glass sheets

Solar glass and photovoltaic industries

Automated optical in-line inspection like for defects, correct coating and lamination, 3D-form and focus point, dimensions, format, and more of:

- Mono-/polycrystalline solar wafers, cells, stringers, and modules
- Thin-film solar modules
- Glass and mirrors for solar thermal applications
- Solar and cover glass

Glass tubes and glass bulbs

COMPANY BACKGROUND / HISTORY

ISRA VISION continues to be a leading global supplier of high-speed surface inspection and quality inspection systems of more than 20 years. Our goal is to provide the entire production chain with standard solutions. The systems are successfully used worldwide. Thousands of installed systems confirm the benefit of many years of experience and technological competence. As a global company, ISRA VISION guarantees its customers excellence in every aspect: from consulting, service and confidentiality to complete solutions and worldwide support.

For the optical inspection of glass, **ISRA** offers the world's most complete product portfolio. The inspection systems are in use in every production step. Based on continuous investments in research and development, all systems use patented methods for automated quality assurance along the entire process chain. The capability to perform a 100% inspection from the hot end up to the finished product is unrivaled. Manufacturers are provided with valuable tools to improve not only the quality of their product, but also the processing and production efficiency.

When it comes to quality control and process optimization within the solar and photovoltaic industry, automated optical inspection systems from **ISRA** are the selection of choice as well. Complete inspection solutions -for wafer based mono-/polycrystalline cells/stringers/modules, thin-film modules, curved mirrors for thermal solar applications, as well as solar and cover glass- are offered for today's and future needs.

Employing the inspection systems, customers enjoy manifold benefits: quality improvements due to accurate and reliable defect detection, increased throughput based on optimized production processes as well as reduced manufacturing costs by enhancing line yield.

Company Profile of **ISRA VISION**

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