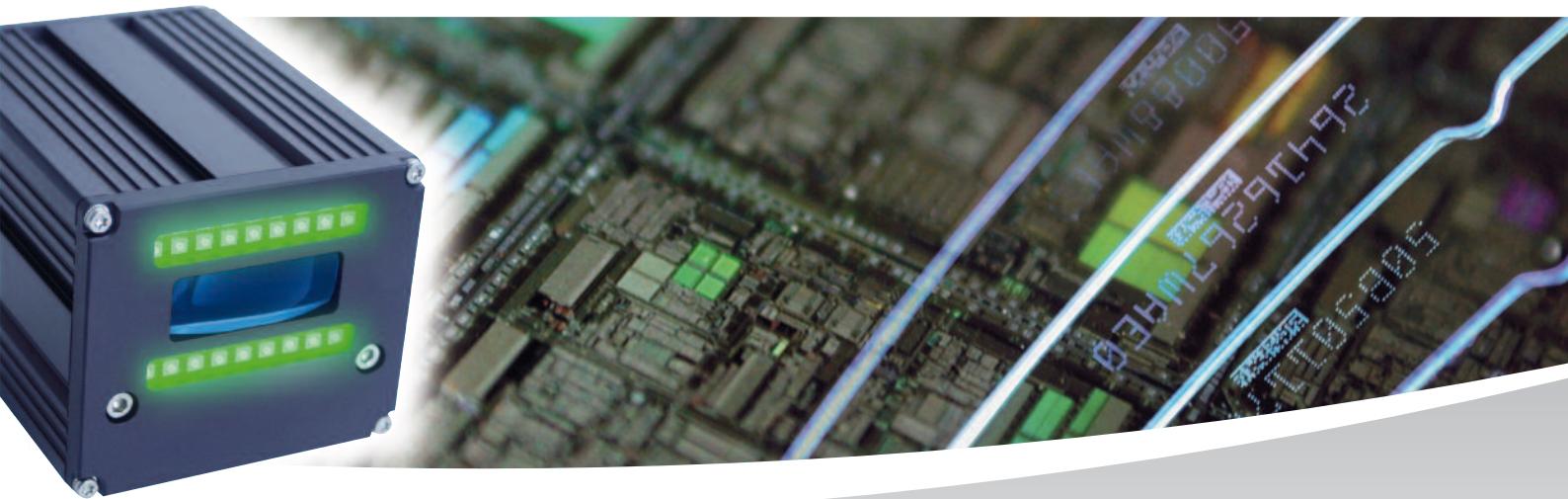




WAFER READER DIVISION.

powered by IOSS



WID110 Wafer ID Reader

Highest Level Reading Performance

The IOSS WID110 Wafer ID reader was developed especially to meet the very high demands of the semiconductor industry. It easily decodes OCR, Bar Code, Data Matrix and QR code markings on any kind of wafer regardless of the wafer material. IOSS WID110 Wafer ID reader systems have set the standard for high quality results and reliability. These self-contained systems with a compact design achieve highest read rates and counts with customer proven reliability.

Professional State of the Art Lighting System

Thanks to the unique IOSS patented optical system and RGB illumination the IOSS WID110 Wafer ID Reader can image any ID mark. Also super-soft marks, ultra-thin coatings and Sapphire substrates can be used as standard. The fully automatic intuitive bright and multiple dark field illuminations offer a huge number of variations for the user. Up to 15 light modes (red-green-blue) as well as an auto-adjustment function are available to adjust lighting to application needs. With the excellent integrated illumination possibilities with internal and external light of the IOSS WID110 Wafer ID Reader means future application easily can be matched. An optional touch panel SD100 is available which features life image and manual code input.

Unlimited Reading Algorithms

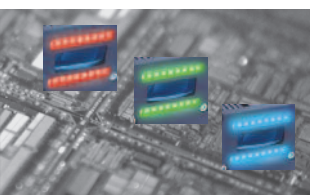
The IOSS WID110 Wafer ID Reader system can make 100% wafer traceability a reality. Our long-time experience has proven ID algorithms OCR, Bar Codes as well as Data Matrix and QR code can be read on all wafers. The system offers a flexible handling of different fonts as well as customized output formats. The read out results can be automatically checked via database to ensure a perfect performance. Our algorithms are customer proven to achieve an excellent reliability and robustness in the field of wafer readers.

Advanced Automatic Recipe Optimization

The software features of the IOSS WID110 Wafer ID Reader automatically optimize settings to read the most demanding wafer marks. It allows reading OCR, Bar Code, Data Matrix and QR Code at one time in one job only. The flexible recipe handling offers additional options to fulfill special application requirements. IOSS WID110 Wafer ID Reader has the possibility to change automatically the results via a database configuration. Per trigger the IOSS WID110 Wafer ID Reader can adjust up to 10.000 different settings. Two readers can operate at the same time on a single reader interface to read for example FRONT and BACKSIDE (master/slave functionality) using one trigger. Working with the system requires very little operator intervention.

Optimum Use of Recipes

ID-marks on wafer can vary from wafer-to-wafer and between lots. IOSS WID110 Wafer ID Reader automatically adapts to the current situation and fulfils its job. Automatic optimization of the unique illumination technique, RGB light as well as using the additional image enhancement filters allows a fluent workflow at a stretch. No manual optimization or adjustments are required by the operator.



IOSS WID110 Wafer ID Reader is the most advanced high-end system on the market.

It is extremely powerful and reliable. Using a high power processor the IOSS WID110 Wafer ID Reader permits intensive image analysis to deliver extraordinary reliable results together with superlative short read times.



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Mark Types	OCR	SEMI Font (SEMI M12, M13, M1.15), OCR-A, Radial Codes Many other customized fonts can be activated on request
	2D	Data Matrix ECC200, SEMI T7, M1.15 QR Code
	Barcodes	Barcode BC412, IBM412 (IBM & SEMI T1-95), Code 39
Illumination and optics	Scan field size	35mm x 13mm
	Field of view	Ultra-Wide Field of view
	LEDs	multi-channel RGB (Red/Green/Blue), Range: 450nm - 650nm
	Light Modes	15 internal and external (3 colours - RGB), Auto-Adjust function Multiple darkfield illumination for all colours (RGB) integrated Brightfield illumination for all colours (RGB) integrated Auto Scan (illumination) - dynamic range 1:10.000
	Depth of focus	± 5mm
I/O and communications	Communication ports	Ethernet, RS-232
	Discrete I/O	Internal SPS - 2 inputs and 2 outputs
	Trigger	SW-Trigger via Ethernet and RS-232 and SPS line in
	Master / Slave	Master / Slave mode permits an integration of additional camera systems using one single interface - Usually for front/backside reading application
	Database application	Database conversion for result cross-check, customized result modification and multiple result handling
Product Features	Imaging	Automatic image enhancement filters
	Operation	1 job contains up to 10000 recipes, amount of jobs are not limited Live logging (images, read string, read score, read time)
Hardware	Sensor properties	CCD, b/w, resolution 1024 x 768
	Bit depth	256 grey levels (8-bit)
	Exposure time	auto adjust
	Acquisition	progressive scan
	Voltage	12 - 24 VDC
	Current (at 24VDC)	130mA (min) to 300mA (max)
	Mounting	Flexible mounting: vertical/horizontal, adjustable bracket at will on all 4 sides
	Working distance	44mm (standard), other individual settings available
	Housing	black anodized aluminium case
	Weight	500.0g
Dimensions (mm)	Height 60mm x Width 69mm x Depth 90.5mm	
Environmental	Operating	Temperature 0°C up to 50°C
Certifications	Regulatory Compliance	CE, RoHS, FCC

We reserve the right to make technical alterations without prior notice.
If you wish to learn more about our products, don't hesitate to contact us.



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