WID110 wafer reader
Advanced performance in wafer identification

The WID110 wafer reader was developed specially to meet the very high demands placed by the semiconductor industry. It easily decodes OCR, barcodes and 2D-codes regardless of the marking technique (hard-marked, soft-marked or super-softmarked).

A newly developed, multi-channel, multi-spectral lighting system guarantees ideal reading conditions. Codes are identified reliably even in the presence of process-specific colour coats. The system is also able to read codes which are extremely low-contrast, partly damaged or situated on highly reflective wafers.

A very easy and intuitive setup tool permits system integration in a matter of minutes. This eliminates the need for elaborate teach-in. As a result, the WID110 is also ideally suited to upgrading existent facilities whose processes do not permit long adjustment phases. Configurations once set can be applied freely to other readers.

The optics, illumination, camera, processor and all interfaces are integrated fully into a compact aluminium housing. Its compact size and flexible assembly make the WID110 easy to install even in extremely confined spaces.

Practically proven identification algorithms geared to the semiconductor industry's requirements guarantee maximum reading dependability. Automatic switchover between the various illumination modes combined with variable brightness during capture achieve very high reading rates. This feature allows reliable reading, even in the case of deficient markings which occur on the wafers during different process stages (e.g. due to chemical mechanical polishing or physical vapour deposition).

Make your production processes transparent today with the WID110 wafer ID reader.

Technical data WID110

Area of application	Reliable reading of directly marked wafer ID codes
Sensor technology	Progressive scan CCD, black/white, 1024 x 768 pixels
Reading distance	Vertical installation: Approximately 44 mm (other distances from 25 – 60 mm available on request) Horizontal installation: Minimum 11.6 mm
Reading field size	34 x 10 mm
Illumination	Integrated, multi-channel RGB LED illumination; bright and dark field modes
Code types	Bar code: BC412 (SEMI T1-95), IBM412
	Data Matrix code: ECC200 (SEMI M1.15, T7)
	OCR: SEMI Font (SEMI M12, M13, M1.15) 9 x 17 single density dot matrix 10 x 18 double density dot matrix
	Other fonts available on request
Setup	Convenient, graphic user interface (PC or notebook)
Adjustment aid	Live image, illuminated image area
Interfaces	Ethernet, RS232, PLC cables for trigger
Trigger	Via PLC, RS232 or Ethernet
Teach-In	No teach-in necessary
Dimensions	60 x 69 x 90.5 mm
Weight	Approx. 500 g
Power supply	12 - 24 V DC, max. 600 mA
Temperature range	0 - 50° C
Protection class	IP54
Housing	Aluminium, black anodized
Assembly	Vertical or horizontal installation, adjustable assembly plate, flexible mounting via four housing sides

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.

Sales and support exclusively by:

htt münchen high tech trade

HTT High Tech Trade GmbH
Optical Reader Division
Landsberger Str. 428, D-81241 Munich, Germany
Tel: +49 (0) 89 - 54 67 85-0, Fax: +49 (0) 89 - 56 43 96
www.httgmbh.de

www.ioss.de

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