

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

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| 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 |

**Sales and support
exclusively by:**

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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