QES®

*Assuring you our best, always!*

# WID150R

# Wafer Batch ID Reader

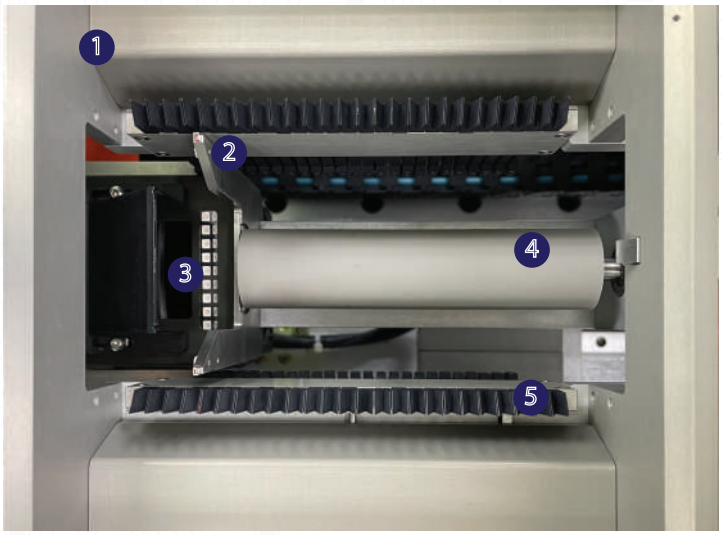

## Highlights

WID150R is mainly designed for 6" wafer size to read each wafer in the Lot. The system will read Wafer IDs such as OCR, bar code, data matrix and QR code marking on the front side or backside of a wafer using IOSS WID120. Wafer flat finder will be used to align the wafers. Using in-cassette mapping sensor, the wafers are mapped to check for presence, cross and/or double slots. WID150R is equipped with multi touch panel PC with a user-friendly and simple-to-operate system to let the user get the most out of the system such as retrieve process recipes and maintenance. The WID150R can read a complete batch of 25 wafers in less than a minute and provides outstanding performance while saving times.

## Key Features

- 1x Open Cassette Port
- Cassette Orientation Sensor, "Presence" and "Tilt" Sensors
- In-Cassette Wafer Slot Mapping Function
- Integrated Wafer Orientation Flat Alignment Mechanism
- Programmable Wafer Rotation for Various Wafer ID Locations
- Batch Wafer ID Reading ( Front & Back Wafer ID)
- Status Indicator with Adjustable Buzzer
- Multi Touch Panel PC & Widows 10 Base GUI
- SECS/GEM Communication Tools
- RFID Reader Module for Cassette ID

# Wafer Batch ID Reader




### 1 Cassette Load Port

25 Slots Open Cassette Load Port with sensors to detect cassette orientation (reverse placement of cassette), presence and tiltness.

### 2 Mapping Sensor

In-cassette wafer slot mapping function to check for presence, cross and/or double slots.

### 3 IOSS OCR Reader

Integrated with prism to read OCR, Barcode, DataMatrix and QR-Code marking on the front side or backside of wafers.

### 4 Flat Finder Module

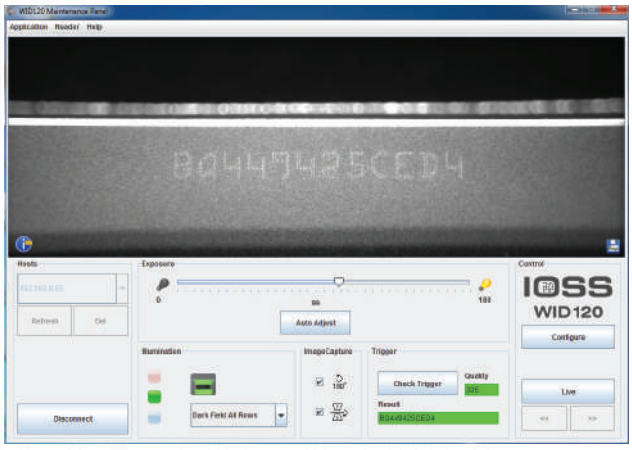
To assist wafer batch alignment prior to wafer mapping and ID reading.

### 5 Wafer Comb

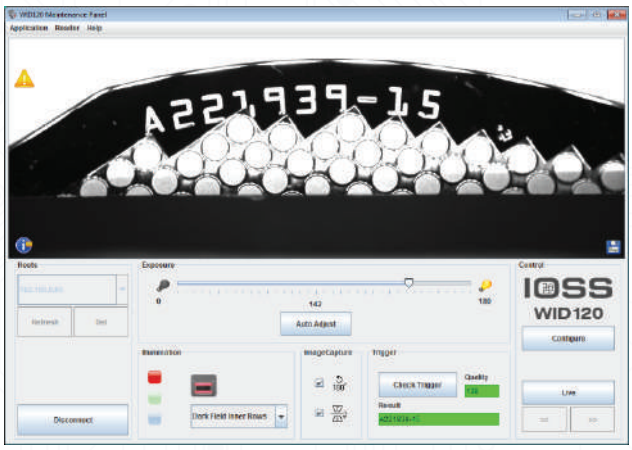
Use to hold wafer during wafer ID reading.

# System Capabilities

Example of OCR Image from WID150R:








# Key Features & Advantages

Load Port Module

## Fool-Proofed Design Load Port

Load port module has fool-proofed design to ensure cassette placement is properly secured on the load port. The load port can be customized to support different cassette type . Integrated together with mapping sensor for quick and reliable detection of wafer and slotting errors in cassettes.

Mapping Sensor

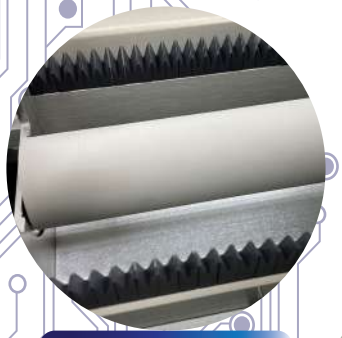
## Precise Alignment

Using auto flat finder module to assist wafer batch alignment for a precise and quick alignment of wafers at any angle. ESD safety controled with static dissipative materials grounding both the wafer and cassette.

OCR Reader with Prism

## Programmable Wafer ID Reader

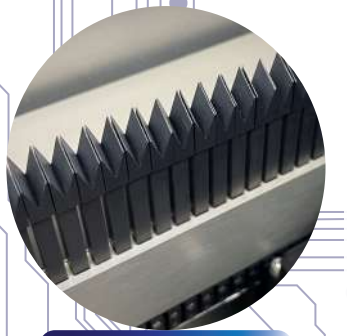
High performance of  wafer ID reader. Can decodes OCR, bar code, data matrix and QR code marking on the front side or backside of any kinds of wafer, regardless of the wafer material. Fully automatic light control and intelligent configurations handling, is able to improve the read rates drastically.



Flat Finder Module

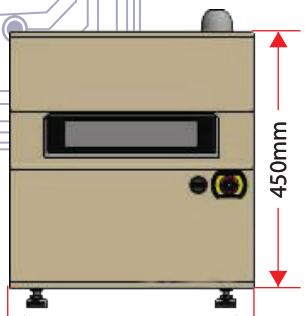
## High Performance & User Friendly System

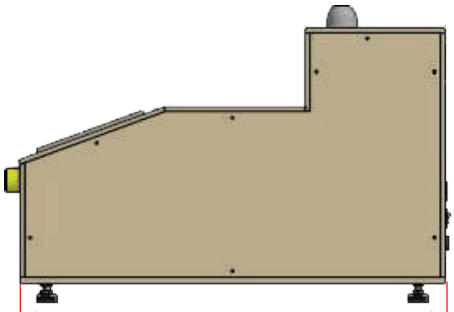
WID150R can read a Lot of 25 wafers ID in less than a minute, delivering high performance while improving efficiency. The user-friendly and easy-to-operate system make it simple for the user to operate the system.



Wafer Comb

# WID150R




# Technical Specification

| | |
|---|---|
| **Wafer** | |
| Size | 6" Wafer |
| Thickness | 200µm-800µm |
| Wafer Warpage | Up to 1mm Wafer Bow |
| **Loading Port** | |
| Load Port | Standard 1 Load Port |
| Carrier | SEMI Standard 6" Wafer with 25 Slots of Open Cassette |
| Loading Port Sensor | Present or Absent Cassette Detection |
| | Cassette Orientation Detection (Detect Reverse Placement of Cassette) |
| | Cassette Tilt Detection |
| **Handling** | |
| Wafer Mapping Sensor | Micro Optical Sensor (Thru-Beam Type) |
| Mapping System | In-Cassette Wafer Mapping Sensor to Detect an Empty Slot, Double Slot Detection and Cross Slot Detection |
| Wafer Flat Finder | Built in Programmable Wafer Orientation Flat Alignment |
| **Wafer ID Reader** | |
| Model | IOSS Reader with Prism |
| Code Types | Standard: SEMI M12, M13, M1.15,SEMI T1.95 |
| | OCR: SEMI Font (Straight, Concave and Convex), Non-SEMI Font |
| | 2D Code: ECC200, T7 DataMatrix, QR-Code |
| | Barcode: BC412, IBM412 and Code 39 |
| **Operating System** | |
| Hardware | Standard Industrial Panel PC with Windows 7 |
| | Multi-Touch Panel PC & Window Based GUI |
| **Enunciation** | |
| Indicator | Light Status Indicator (Red, Blue, Yellow & Green) with Adjustable Volume |
| **Optional Items** | |
| Network Communication | SECS/GEM Interface |
| Barcode Scanner | Handheld Barcode Scanner |
| **Operating Environment** | |
| Power System | 200-240VAC, 50/60 Hz Single Phase |
| Room Temperature | 20°C- 28°C |
| **Dimension** | |
| Foot Print | 400mm (L) x 700mm (W) x 450mm (H) |
| Weight | 60kg |

** The information in this catalogue is correct at the time of printing. QES Mechatronic reserves the right to make design changes or improvements. Specification are subject to changes without prior notice*

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