**Product Performance, Comparison**

**Metralight HsensorX038**

The Metralight **HsensorX038**, surpassed the performance of the current and latest iteration of the competitor’s mappers.

In fact, due to the extensive use of Dark Coated Wafers in today's semiconductors, the Metralight HsensorX mappers will prove to be an indispensable equipment in semiconductor processes.

The Metralight HsensorX series of mappers, is a **DROP-IN replacement** of the current standard mapper.

No additional changes or modifications (i.e. electrical or mechanical) are required to adapt the Metralight HsensorX.

The physical dimensions of the Metralight HsensorX is much smaller in size, but the mounting holes are identical and an "adapter", is provided to those customers that require them. Being smaller and lighter, the Metralight HsensorX can be mounted even on end effectors.

**Better Features:**

- Class 1 Laser
- Collimated Beam for better detection
- Cancellation of ambient light
- LED bar indicator (10 levels) on the unit for visual feedback of wafer detection
  - This is used to indicate the amount of reflected light and the sensitivity of sensor
  - Operators can get immediate feedback, during setup and test
  - Eases Troubleshooting operations
- Low power consumption (temperature of unit does not increase with time of operation)
- **LOWER COST** than any competitor

Additional information provided upon request.

Please feel free to contact us:

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Scan Results of bare Silicon, 12 inch wafers
FOUP is completely populated with bare silicon.

competitor’s mapper

Metrалight HsensorX038 mapper

Scan Results of “Dark Blue”, 12 inch wafers
FOUP is populated with 11 “Dark Blue” wafers in slots 14,15,16, and 18 thru 25.
Notice that the Metralight HsensorX038 showed better detection and consistency

competitor’s mapper

Metrалight HsensorX038 mapper
Scan results of “Ultra Dark Blue”, 12 inch wafers

In this scan, it is apparent that the competitor’s mapper was not able to locate 5 wafers in slots 1, 2, 3, 6, and 14. (Slots 8 thru 13, and 17 are empty)

The Metralight **HsensorX038**, detected all wafers in the cassette.