Microtronic's New EAGLEview IV Delivers Comprehensive Wafer Inspection, Monitoring and Management in the Fab and Across the Enterprise

4-Cassette Auto Macro Defect Inspection System with Advanced Robotic Handler Inspects over 3,000 Wafers Per Day Without the Need to Create or Maintain Recipes

EAGLEview IV is Microtronic's new auto macro defect inspection system that comes equipped with state-of-the-art robotics, a 4-cassette wafer handler, a new version of EAGLEview's ProcessGuard Software and breakthrough features including digital guard-banding, wafer randomization with slot positional analysis and enhanced defect visualization.

EAGLEview IV is an integrated hardware and software platform that provides high wafer inspection throughput by combining robotics, intelligent software, imaging technology and analytics without the need to create or maintain recipes. Microtronic's EAGLEview IV saves fab's time and money by using advanced automation to visually detect wafer defects and excursions faster and more accurately than standard manual inspection methods or automated microscopy solutions that are based on cumbersome recipes, limited wafer sampling and expensive equipment.

Microtronic's auto macro defect inspection systems are battle-tested having inspected over 100 million wafers in fabs throughout the world.

Microtronic's EAGLEview IV inspects each and every wafer while creating a high-resolution image of each to provide an unparalleled wafer inspection solution for 50mm to 450mm wafers at a rate of over 3,000 wafers per day (>1,000,000 per year). The entire wafer is imaged and stored as a high resolution color wafer image at any step throughout the manufacturing process. Historical data and images are easily correlated to any point in the production process to facilitate root cause analysis and real time corrective action.

Microtronic's total commitment to customer satisfaction and quality earned it many accolades in the past including:

- Lucent Technologies Vendor of the Year Award - 2000, 2001
- Texas Instruments Supplier Excellence Award - 2006
- Best New Product Finalist at Semicon West - 2014

EAGLEview IV Key Features and Benefits

- **Detects Macro Defects**
- **Comprehensive Wafer Production Audit Trail**: Full Wafer Images, Defect List, Wafer Defect Maps, Wafer Tracking
- **High Speed Throughput** – Over 3,000 Wafers Per Day
- **No Device Dependent Recipes Need to be Created or Maintained**
- **4 Cassettes –** dual diameter capability
- **Wafer Randomization** – Integrated slot positional analysis
- **Reads OCR and Inspects Every Wafer in Cassette**
- **Excursion Control & Yield Improvement**
- **Scrap Avoidance** – prevent onesy-twosy escapes
- **Rapid Root Cause Analysis –** on board commonality analysis
- **Guard Banding**– Digitally ink-off defects at probe (sort)
- **Enables Zero Defect Best Practices**
- **2 years of stored images and data**
- **Weigh Cell Monitor**– Measure Wafer Weight During Macro Scan
- **Reduces Manual Inspection Staffing**
- **KLARF** defect file format

EAGLEview IV ProcessGuard Advanced Imaging Storage and Retrieval

- Large High-Resolution Wafer Images
- Defect Review Overlay and Guardbanding at Multiple Levels
- Image Storage and Retrieval

The New EAGLEview IV – Inspects 50mm to 450mm Wafers at a rate of over 3,000 wafers per day without the need to create or maintain recipes.

EAGLEview IV ProcessGuard Software

EAGLEview IV is a high-throughput macro inspection tool that inspects all wafers in a cassette. ProcessGuard software manages, and displays high resolution full-sized wafer images and data that provide critical information to make immediate, cost-saving, and yield-protecting decisions – a must for excursion control.

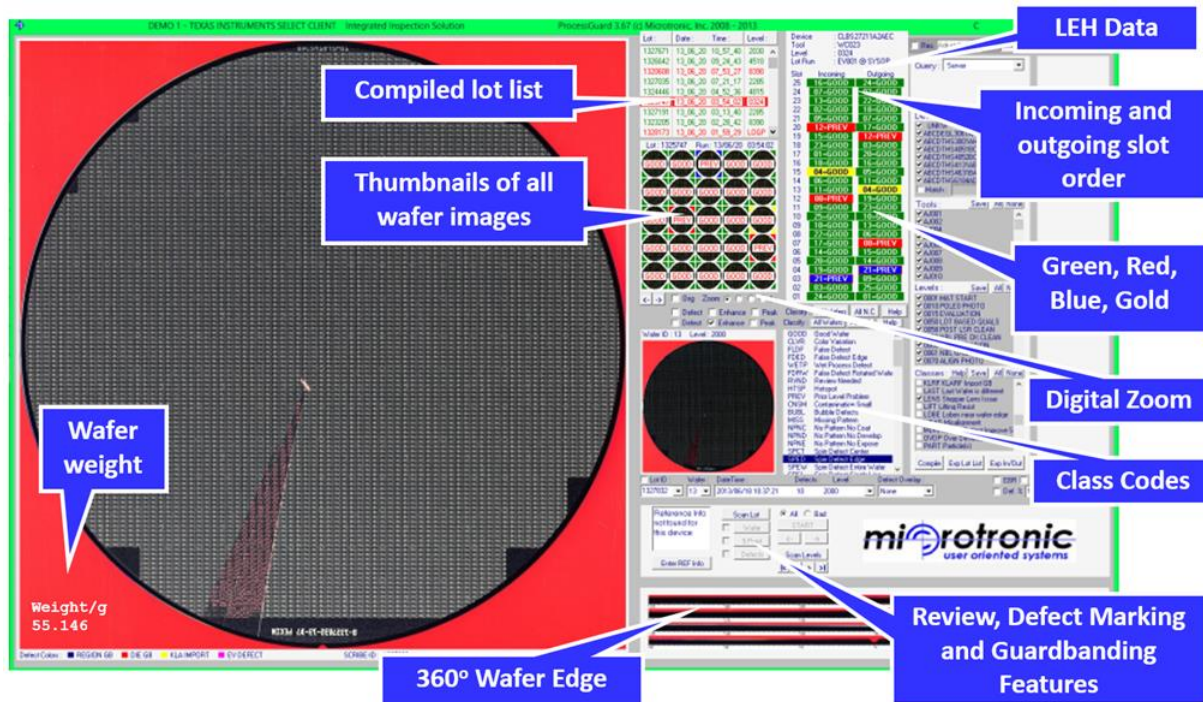## Key Capabilities, Applications, and Features of EAGLEview IV ProcessGuard Software:

- Unlimited ProcessGuard Desktop Clients
- Wafer Randomization Analysis
- Integrated User-Defined Defect Library
- Integrated Trainer & Knowledge Base
- High Volume Macro Inspection tool
- Enhanced Visualization
- Customizable User Interface
- Customizable Query Screens

Click Below to View EAGLEview Detected Defects

http://www.microtronic.com/defect-library/

http://www.microtronic.com

EAGLEview IV ProcessGuard Data Management

- Compiled Lot Lists
- Data Can be Sorted by Class Codes, Tools, Levels, Time, or Device
- Lot and Equipment Historical Data
- Incoming and Outgoing Slot Order
- View Multiple layers for Each Wafer

EAGLEview IV ProcessGuard Software Interface

ProcessGuard Applications and Processes

Inspect, View, and Image Multiple Layers of Each Wafer

- Defect Overlay
- KLARF File Compatibility
- PARETO Analysis
- Guard-Banding (ink-off)
- Bump Process
- Photo, CMP
- Defect Review