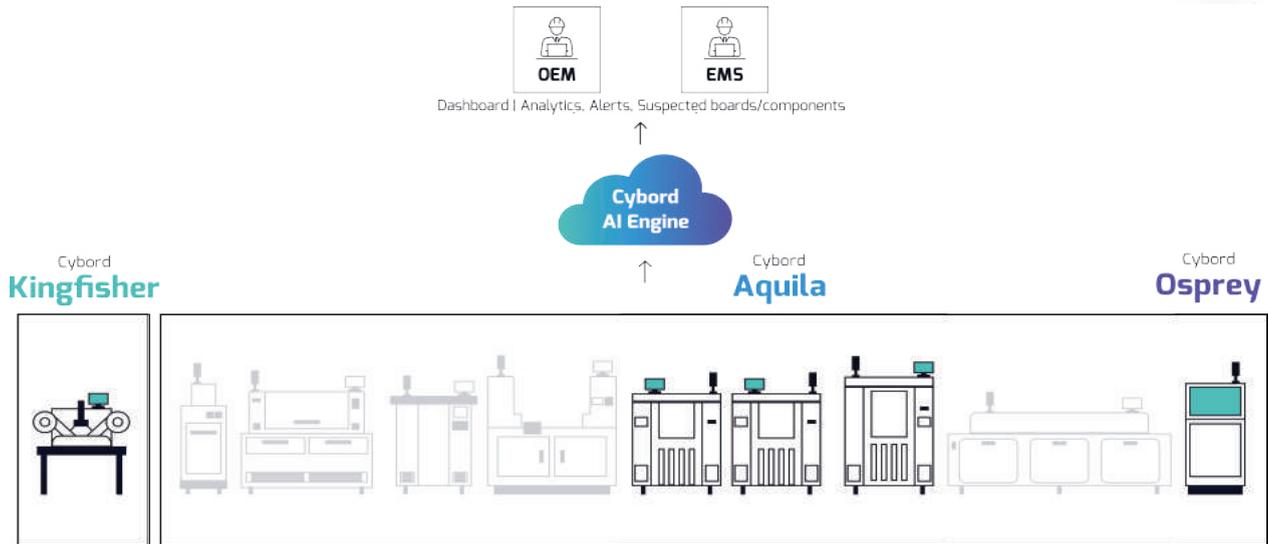# Improve Confidence In Your Products' Reliability With The Cybord Visual-Ai Analytics Solution

The Cybord platform provides OEMs a better and more comprehensive view of their production lines. It ensures the assembled electronic components' authenticity and quality, and provides the highest level of traceability.

Certified by Cybord

OEM

EMS

Dashboard | Analytics, Alerts, Suspected boards/components

Cybord AI Engine

Cybord **Kingfisher**

Cybord **Aquila**

Cybord **Osprey**

The Cybord AI platform aggregates and analyzes images and data from 100% of the components at various production stages. It combines and analyzes existing unutilized visual data and production metadata, ensuring:

Authenticity | **Product Quality** | **Traceability**

The Cybord platform achieves end-to-end visibility and control over the product assembly life cycle.

Our Solutions

Our deep visual analytics technology is customized to your specific business needs, ensuring product quality and productivity
The platform includes 3 combined solutions:

Cybord Kingfisher

Allows purchasing electronic components on reels securely

The Cybord AI engine processes the images of all components in the reel to authenticate, decode and validate all marking, date codes, and lot codes.

Cybord Aquila

Ensures high yields of a product from its early assembly stages

Aquila analyzes parameters of the images captured by the SMT machines based on Cybord's AI engine. The AI engine authenticates each assembled component and inspects quality and traceability attributes, to enforce components quality and ensure high productivity.

Cybord Osprey

Verifies visual traceability of marked components assembled on each PCBA

All component markings of images captured by AOI machines are decoded and cross-checked with traceability documentation to detect and alert deviations from documented lot numbers and date codes.

Cybord platform provides High-level Traceability (IPC level 4A) with no additional hardware!

High-level Traceability = High productivity and reliability

During the data collection, Cybord can provide the following output:
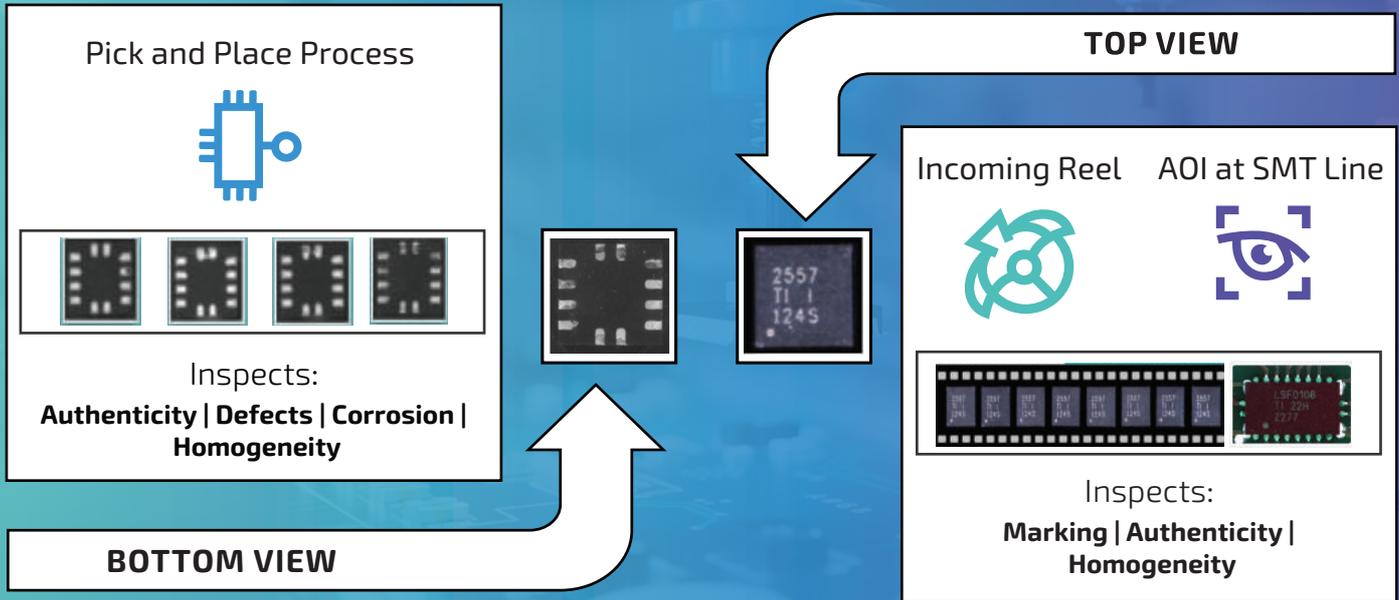
Identify manufacturer | Homogeneity | Defects | Corrosion | AOI marking decoding

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The Cybord Secret Sauce:

Top & Bottom Visual Analytics Solution!

The Cybord platform is the only one that can provide component top and bottom visualized analytics based on visual-AI inspection of the components.

Pick and Place Process

Inspects:

Authenticity | Defects | Corrosion | Homogeneity

BOTTOM VIEW

TOP VIEW

Incoming Reel   AOI at SMT Line

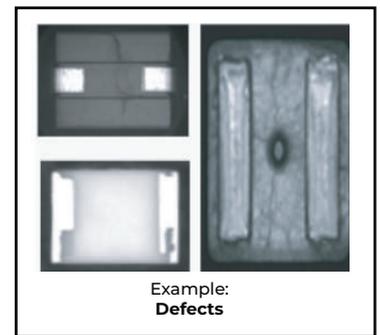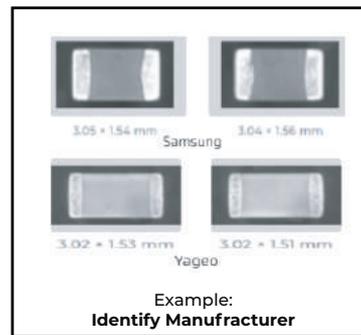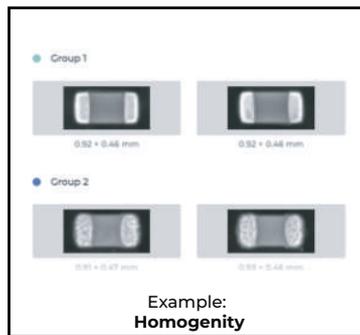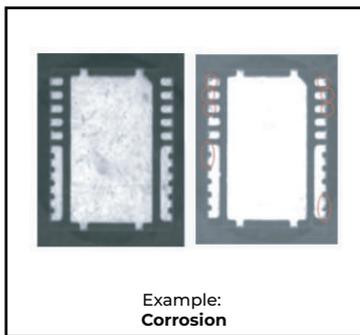Inspects:

Marking | Authenticity | Homogeneity

Do you know what's going inside your circuit boards?

Electronic products are as good as the components they are

Body defects & corrosion | Inferior components | Out-of-spec components | Material sourcing | Manufacturing

This may lead to irreversible reliability issues and recalls, which can cause a revenue decrease.

Example:
Corrosion

Group 1

0.92 * 0.46 mm   0.92 * 0.46 mm

Group 2

Example:
Homogenity

3.05 * 1.54 mm   3.04 * 1.56 mm
Samsung

3.02 * 1.53 mm   3.02 * 1.51 mm
Yageo

Example:
Identify Manufracturer

Example:
Defects

Monthly Overview Dashboard

Cybord Cloud Analytics

247,035,803   91,602   625,014
Components   Packages   Reels

247,035,803