

CYBORD ELECTRONIC COMPONENTS ANALYTICS

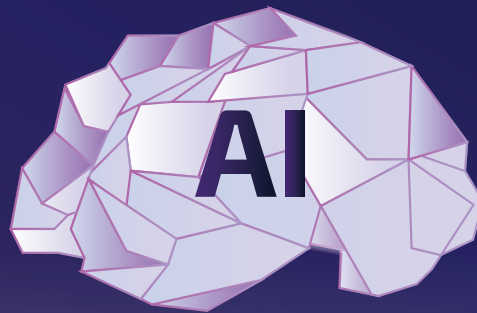
Cybord Platform Analyzes Authenticity, Quality And Surgical Traceability Of Each Component By Using Visual AI And Big Data

Elevate
Credibility



Increase
Profitability

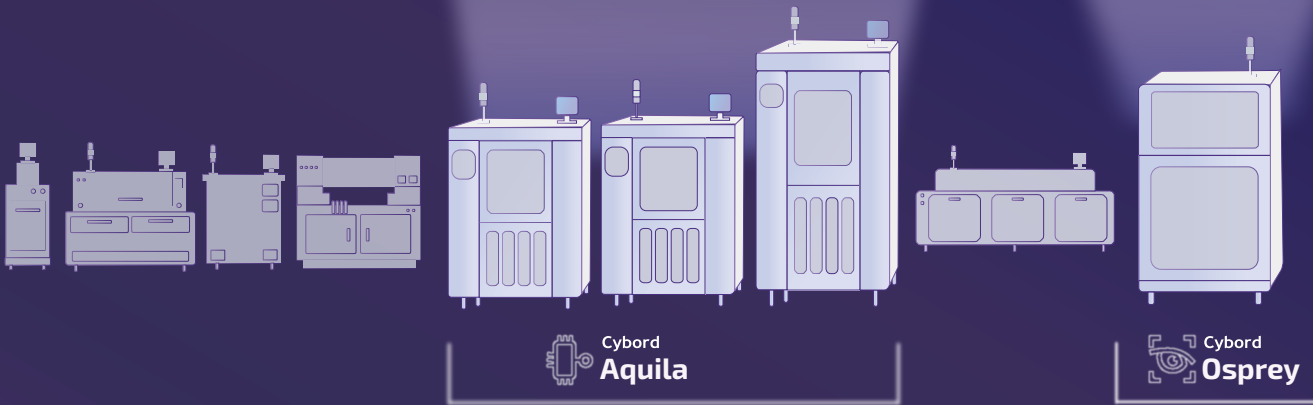
Enhance
Execution



Supply Chain
Resilience

Pick and Place

AOI



The platform inspects all electronic components during the assembly process. Cybord's software aggregates and analyzes existing production data from SMT & AOI machines to provide smart insights for OEMs.

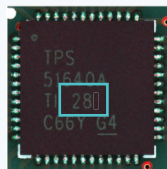
ELEVATE CREDIBILITY

Cybord's AI technology inspects each component assembled on every board while utilizing the board ID to provide surgical traceability.

AOI

From: 12/05/2023 To: 19/05/2023 Filters: Mismatched Date Codes Clear all

BOARD PN	BOARD SN	REFDES	PART NUMBER	DATE CODE MARKING	IDENTIFIED	TRACED	LOT CODE MARKING	TRACED	MANUFACTURER
SFG002781	32135611010532	U15	IC000240	2122	2122	2221	GV69002CU	1TGV69002CU	INTEL
SFG002781	32135611010532	U9	POW000114	28	2231	2216	C66Y	1T28962892FU	TE
SFG002781	32135611010532	Q22	DIS000054	245	2245	2243	-	1TPF245355C07	IN
SFG002781	32135611010532	U9	POW000114	28	2231	2216	C66Y	1T28962892FU	TE
SFG002781	32135611010532	Q1	DIS000020	N	2226	2231	-	1TMQN307290	OI



LOT CODES

Traced: 1T28962892FU

Marking: C66Y 99.77%
Others 0.11%
Unknown 0.11%

Cybord's Visual Traceability Allows Customers To:

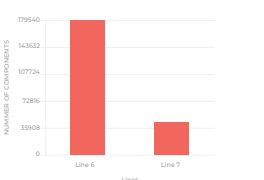
-  Minimize product recall events
-  Enhance product reliability
-  Strengthen company reputation
-  Foster customer brand loyalty

INCREASE PROFITABILITY

Cybord AI enables you to increase profitability by inspecting 100% of the electronic components during SMT line production for improved reliability.

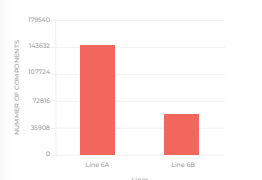
-  **Reduce Warranty Expenses**
-  **High Quality Product**
-  **Reduce Failure Rate**

SET-UP ISSUES




- Line 6 Line: Vision Issue
- Line 7 Line: Vision Issue

SET-UP ISSUES



- Line 6A Line: Vision Issue
- Line 6B Line: Vision Issue

SET-UP ISSUES



Issue Type: Clip

Time Stamp: 20:37:24

PUID: 18593560

Board P.N: N/A

Location: 3 Track: 16 Division: 1

COROSION ISSUES



- Line 6 Line: Corrosion 22
- Line 7 Line: Corrosion 4

COMPONENTS



- Line 6B Line: Corrosion 21
- Line 6C Line: Corrosion 1

CORROSION




Board S.N: F1258724


Time Stamp: 20:38:26 GMT

Board Number: Top 4 RefDes: C205

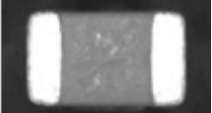
ENHANCE EXECUTION

A comprehensive analysis of 100% of the components ensures the elimination of defective components during the PCBA assembly process to avoid contamination issues on other boards.


 **Reel**

 **Body defects issue**


DPM	Line	Machine	Divion	Location	Track
1,125	Line7	L7b	1	3	16




3.00 x 1.55 mm



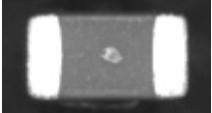
2.98 x 1.55 mm



3.00 x 1.55 mm



2.99 x 1.55 mm



3.00 x 1.56 mm






As a result, the scrap and rework rate is significantly minimized, leading to improved throughput and faster product delivery time.

SUPPLY CHAIN RESILIENCE

By leveraging its extensive database, Cybord's AI technology empowers the capability to make efficient decisions based on smart insights.



Conducting Component Analysis During Production Based On Quality:

-  **Minimizes scrap and rework**
-  **Accelerates product delivery time**
-  **Enhances customer satisfaction**
-  **Streamlines supply chain process**
-  **Reduces production cost**
-  **Assuring material availability**

CYBORD SOLUTION

CYBORD AQUILA

Enhancing Component Analysis

Cybord Aquila uses the pick-and-place camera to capture bottom side images of each component, milliseconds before placement. These images are uploaded to the Cybord cloud for analysis. Utilizing the AI Cloud Engine, Cybord Aquila verifies component authenticity, inspects for defects or corrosion, and ensures consistency across the reel.

CYBORD OSPREY

Assembly Verification and Traceability

Cybord Osprey integrates with AOI machines to capture and analyzes component images. The platform cross-examines visuals with SMT traceability documentation in the Cybord AI Cloud. This triggers alerts for any detected variations in date codes, lot numbers, or manufacturers.

BUSINESS MODEL

The monthly Cybord pricing model is based on PCBA assemblies according to the total number of boards analyzed using the Cybord platform.



CYBORD AQUILA

Bottom Side Verification



BUNDLE PACKAGE

Full, Combined Solution



CYBORD OSPREY

Top Side Verification

CYBORD EXECUTIVE SUMMARY

Cybord's platform allows its customers to join the new standard of analyzing electronic components based on images to enhance the quality and traceability of the electronics industry.

By using the Cybord platform, each component is inspected during the assembly process, and within less than a minute, the customer receives the whole story behind the component. Cybord platform provides surgical traceability by knowing the location of each component on every board.