



Powerful AI-based solution for fast & simple optical inspection with defect & repair management.

Your Challenge

Managing defects after soldering simply isn't efficient for your manufacturing operation – gobbling up precious employee resources, putting the PCBA at risk of damage, and eating into your already slim margins – you need a better way to catch, repair, trace, and manage both THT and SMT defects.

Our Solution

Our **TTC Fix** platform offers a robust and powerful solution for complete pre-solder defect management. Centered on the Focus AI station, a 2D inspection machine powered by an AI and machine-learning platform, its neural network quickly detects the most common errors for THT and SMT. Further enhanced by Cogiscan's TTC Server software, **TTC Fix** includes an intuitive, visual repair tool as well as full traceability reporting of all defects including image files.

AI Algorithms
perform both
programming &
inspection

Reworks down by

51%

after a 9 months implementation

From 11000 PPM to 5400 PPM.

Catches

85%

of common errors

Including: Missing components, upside-down components, misplaced components, skewed components, wrong polarity.



Benefits

Fast & Easy NPI

No engineering skills required to program new products – intelligent & automatic programming in less than 5 mins

Streamline Repair Process

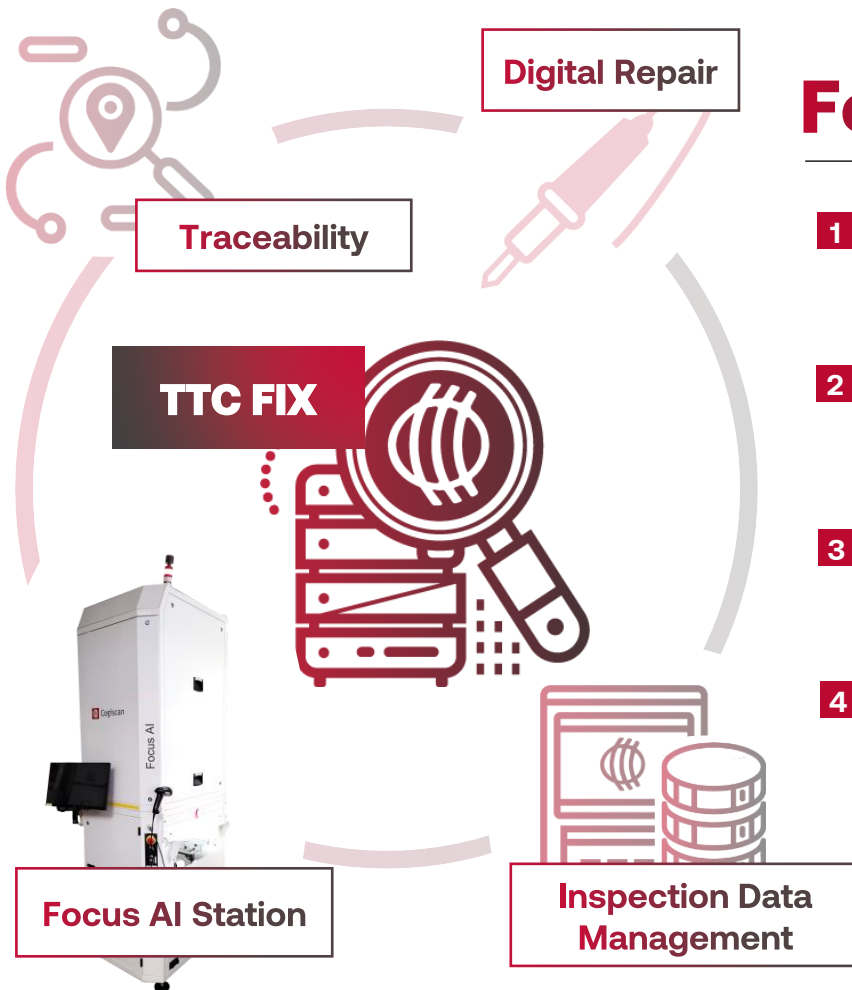
Simplify and centralize digital repair & rework with user-friendly visual work instructions.

Pre-Solder Detection & Correction

Find and fix errors early, before they become real defects for both THT and SMT components.

Full Traceability

Enable compliance with a complete history of all inspections, defects & repairs.



Features

1 Digital Repair Station

With visual, intuitive work instructions.

2 Inspection Data Management

For centralized storage of defect management.

3 Traceability

Of inspection results, including defect codes with images.

4 Focus AI Station

For easy NPI & simple detection of most common defects.

Machine Specifications

Technology

Optics	THT: Basler acA4112-8gc, 12MP, 35mm, 7.5px/mm SMD: 4x Basler acA5472-5gc, 20MP, 25mm, 20px/mm
Field of View	THT: 395 x 528 mm SMD: 315 x 495 mm
Lighting Types	2 x Banner WLB32C570Q
Lighting Colors	White

Performance & PCB Handling

Inspection Speed	Conveyor: 1 - 200 mm/s Test Time: up to 5 sec
Height Inspection Range	Up to 100mm
PCBA Size (min.)	50 x 50 mm
PCBA Size (max.)	THT: 395 x 528 mm SMD: 315 x 495 mm
PCBA Max. Weight	7 kg
Conveyor Adjustment	Automatic

Machine

Dimensions	W 920mm x D 911mm x H 271 - 2881mm
Weight	400 kg
Power Supply	~200-240 VAC 50-60 Hz 1500 W
Network Communication	RJ-45