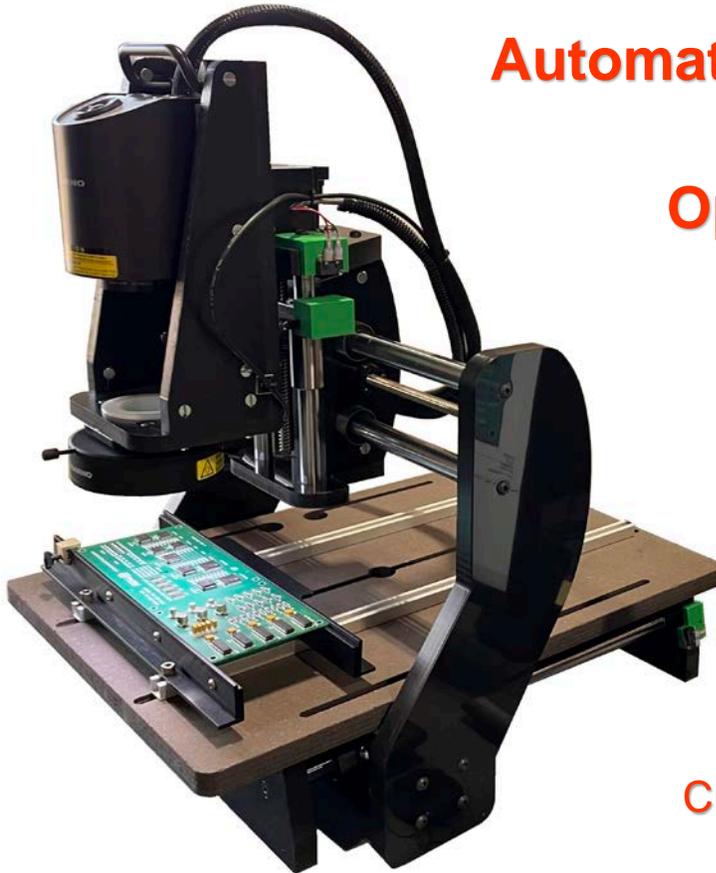

NovaScope SS-XYZ-T

Machine Assisted Optical Inspection for PCBAs



Automatic Photo-Documentation & Optical Inspection XY & Z!

Equipped With
TAGARNO

Customizable on Request!

The **NovaScope SS-XYZ-T** is a Photo-Documentation and Optical Inspection System for printed circuit board assemblies. It combines a Targano ZAP digital microscope and Ring Light with a computer controlled XY & Z positioner to automatically move the scope to visual inspection locations or automatic image capture locations on the circuit board. The circuit board can also be left in place while performing certain rework operations.

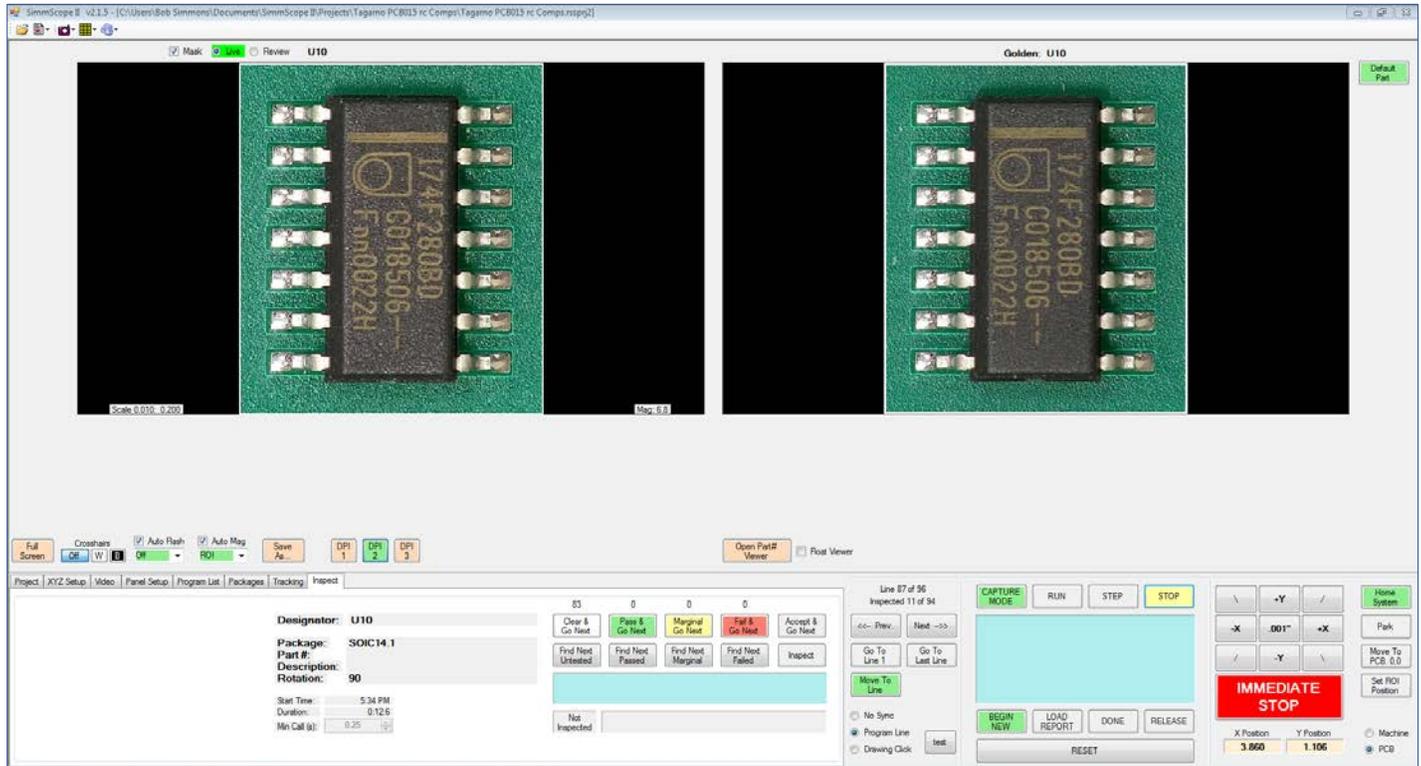
The **NovaScope** can significantly increase the speed and accuracy of human visual inspections. Programming can be done quickly using the XY Placement List and Bill of Material import features. There is also a utility for simple matrix type inspection or photo-documentation and image stitching of the board.

In comparator mode the system shows a live image from the microscope next to a reference image for visual comparison by the operator. Images are automatically captured and saved as part of a post-inspection report. As an option, the system can also be configured with some AOI.

The **NovaScope** is a powerful inspection and documentation tool for:

- High Reliability applications (MIL-Spec, Medical, Automotive)
- Hi-Mix Low-Volume operations
- First Article Inspection
- Solder Joints and Tall Thru-hole Parts
- Conformal Coating
- Assembly Line Auditing
- Cleanliness/FOD/Tin Whisker detection

The Graphical User Interface – Comparator Mode



Ideal for Inspecting: Part Presence, Rotation, Polarity, Registration, Text, Solder, Solder Paste, Bent Leads, Bent Pins, Jumpers, Cut Traces, or any other top-down visual feature on the PCBA.

System Specifications (subject to change)

Base Model	NovaScope SS-XYZ-T
Standard Digital Microscope	TAGARNO FHD ZAP w/ +4 lens (web link) Full HD Image (1920x1080) 30x Optical Zoom Mag. 1.7x - 52.7x, FOV 11.42" - 0.43", WD 9.84"
Optional Digital Microscopes	DeltaPix, Unitron, and other USB Microscopes and Cameras
Optional Lighting	TAGARNO Ring Lamp (white or UV), coaxial light, back light (web link)
Top Clearance	3" Top Side Clearance above PCB
Bottom Clearance	1" Bottom Side Clearance below PCB
Inspection Area	12" x 13" and 4" Z
Dimensions	15" wide x 21" long x 22" high

NovaScope is designed and manufactured in the USA.

NovaScope SS-XYZ-T

Machine Assisted Optical Inspection
For SMT & THT Printed Circuit Board Assemblies