

Equipped With  
**TAGARNO**

The **SimmScope SS-T** is an optical inspection and photo-documentation system for printed circuit board assemblies. It combines a **TAGARNO ZAP** digital microscope with a computer controlled overhead XY positioner to automatically move the Microscope to visual inspection locations or image capture locations of the circuit board. The circuit board is placed into a board holder that is mounted inside a pullout drawer.

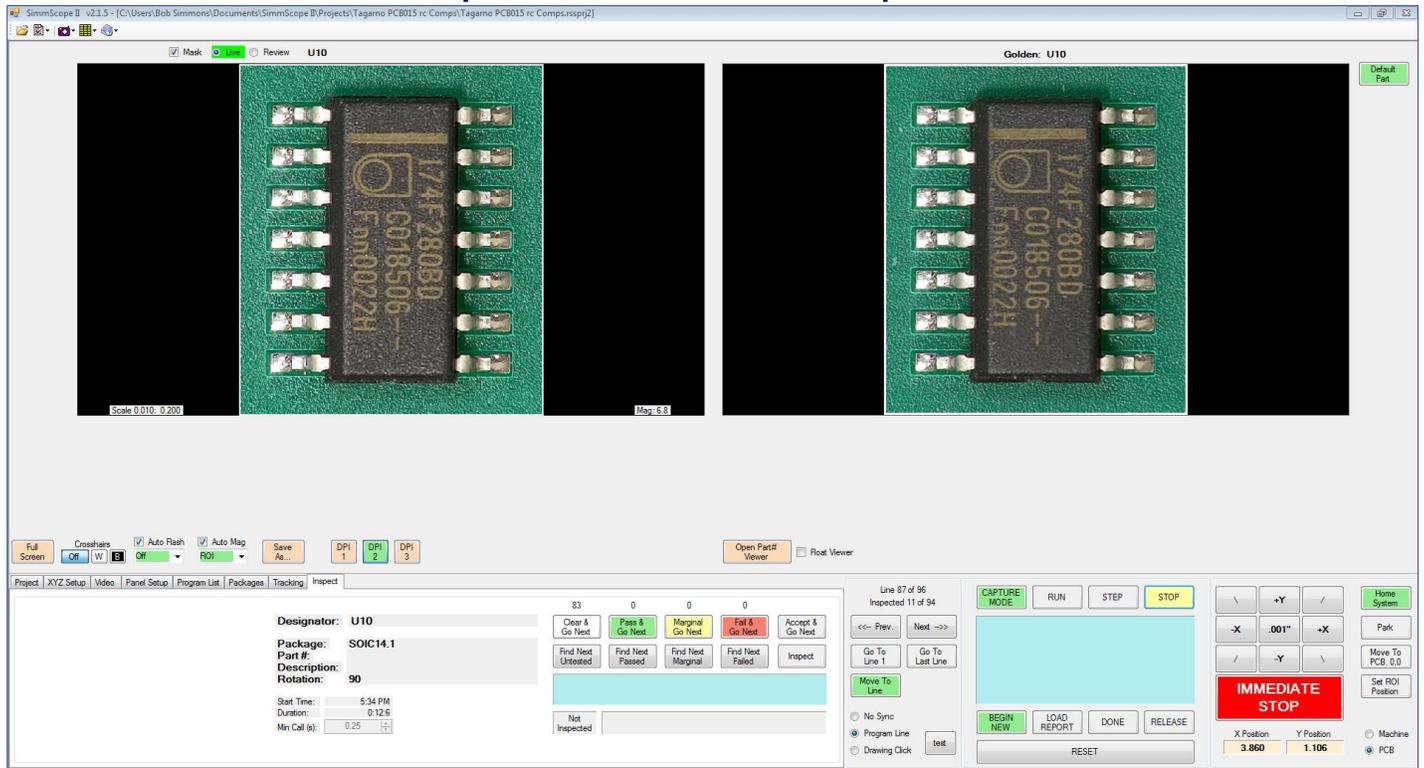
The **SimmScope** significantly increases the speed and accuracy of manual visual inspections. Programming can be done quickly using the XY Placement List and Bill of Material import features. There is also a utility for simple matrix type inspection or photo-documentation and image stitching of the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

In comparator mode the **SimmScope** 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.

The **SimmScope** 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	SimmScope SS-1818-T
Digital Microscope	TAGARNO FHD ZAP w/ +5 lens ( <a href="#">web link</a> ) Full HD Image (1920x1080) 30x Optical Zoom Mag. 1.7x - 52.7x, FOV 11.42" - 0.43", WD 9.84"
Lighting	TAGARNO Ring Lamp (white or UV), coaxial light, back light ( <a href="#">web link</a> )
Top Clearance	4" top clearance with Ring Light
Bottom Clearance	1.9" bottom clearance or more if specified at time of order
Inspection Area	18" x 18" largest circuit board size, other sizes available on request
Dimensions	27.5" Wide x 26" Deep x 26" H
Optional Side View	<b>View from ANY angle 360 degrees around a part</b> and up to 50 degrees of incidence!

**SimmScope is designed and manufactured in the USA.**

RS Simmons Co., LLC  
Exton, PA USA  
[www.rssimmons.com](http://www.rssimmons.com)

***SimmScope SS-T***  
*Machine Assisted Optical Inspection*  
For SMT & THT Printed Circuit Board Assemblies

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