

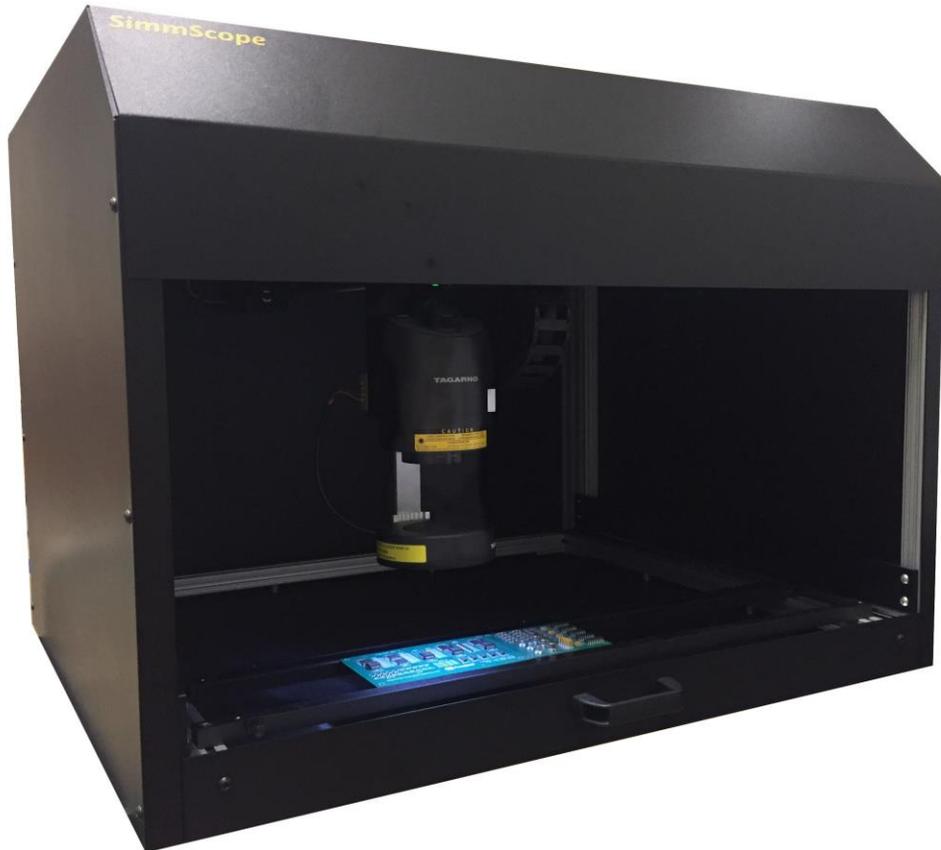


RS Simmons Co., LLC

PCB Optical Inspection

SimmScope SS-D

Machine Assisted Optical Inspection for PCBAs



Equipped With



The **SimmScope SS-D** is an optical inspection and photo-documentation system for printed circuit board assemblies. It combines a **Dino-Lite** 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.

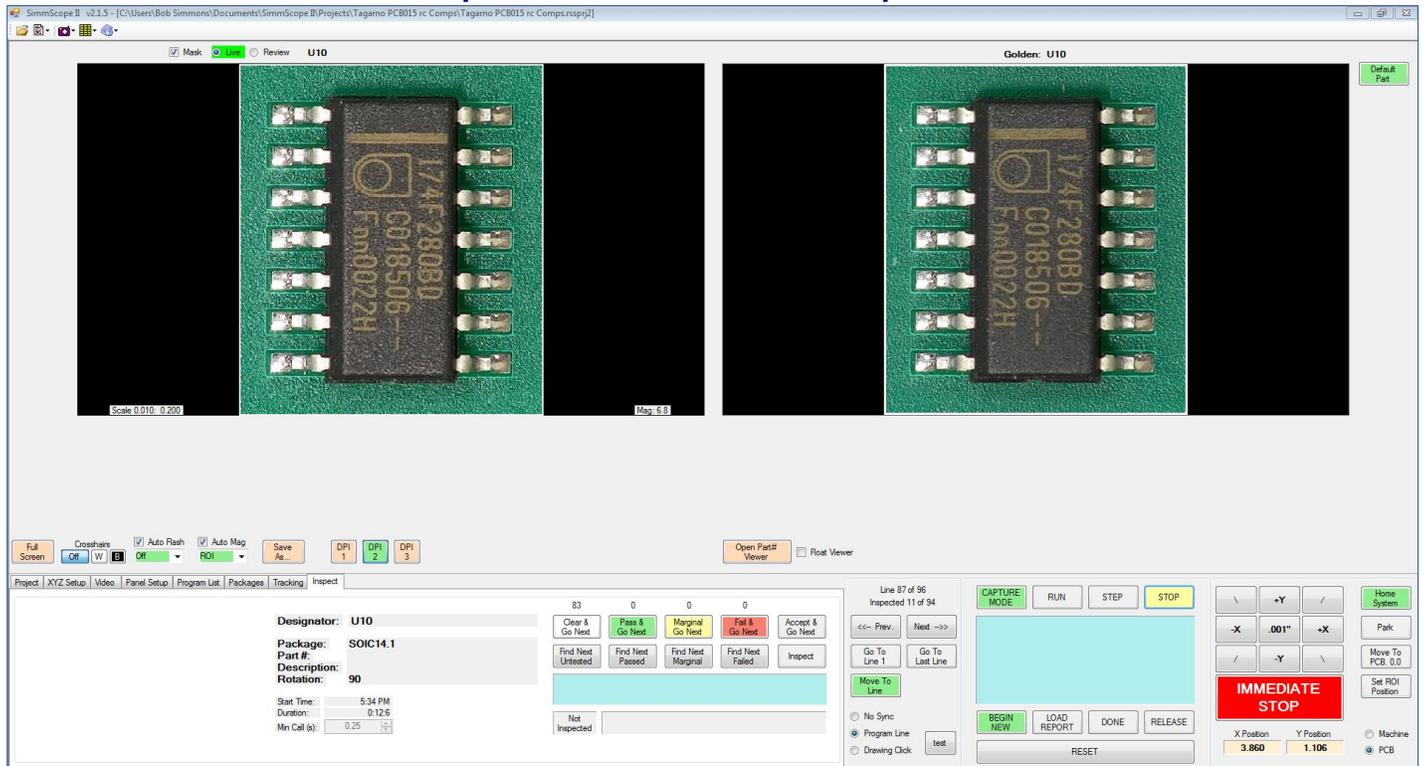
The **SimmScope** significantly increases the speed and accuracy of manual visual inspections. Programming can be done quickly using the XY Placement List and Bill of Material import features. There is also a utility for simple matrix type inspection or photo-documentation and image stitching of the 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-D
Digital Microscope	Dino-Lite EDGE Digital Microscope (web link) 5MP Image Sensor Magnification user configurable, typically 20x or 40x optical
Optional Lighting	TAGARNO Ring Lamp (white or UV), coaxial light, back light (web link)
Top Clearance	4" top clearance with Ring Light
Bottom Clearance	2" 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	View from ANY angle 360 degrees around a part and up to 50 degrees of incidence!

SimmScope is designed and manufactured in the USA.

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

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