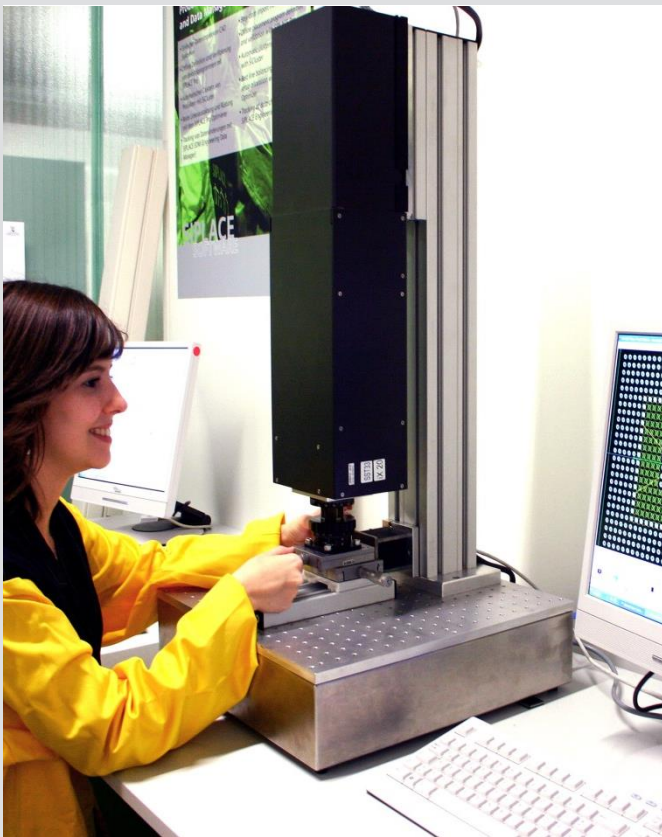


SIPLACE Vision Teach Station

QUICK AND EASY NEW PRODUCT INTRODUCTION



With the SIPLACE Vision Teach Station, quick new product introductions are no longer a problem. The system detects the shapes and dimensions of new components with its auto-learn function and makes the information available to the SIPLACE Pro programming system. The highlight: since the new component is specified at the external teach station, there is no production interruption.



When new products are introduced, manufacturers frequently encounter component shapes for which no description is available in the programming system. If the component is highly complex, or no data sheet is available, creating such a new package shape can be quite involved. With the SIPLACE Teach Station, this no longer poses a problem since it makes new component descriptions significantly easier and faster.

The benefits at a glance:

- Offline description of components at an external teach station
- Easy to use user interface

- Auto-learn function for easy description of component shapes
- Export function for SIPLACE Pro

The SIPLACE Vision Teach Station reduces the effort required to add new components significantly. This tool is an ideal solution for electronics manufacturers who operate in a high-mix environment and for contract manufacturers who must be able to handle lots of new products with many different components in the shortest possible period of time.

SIPLACE Vision Teach Station

Functionality of the SIPLACE Vision Teach Station

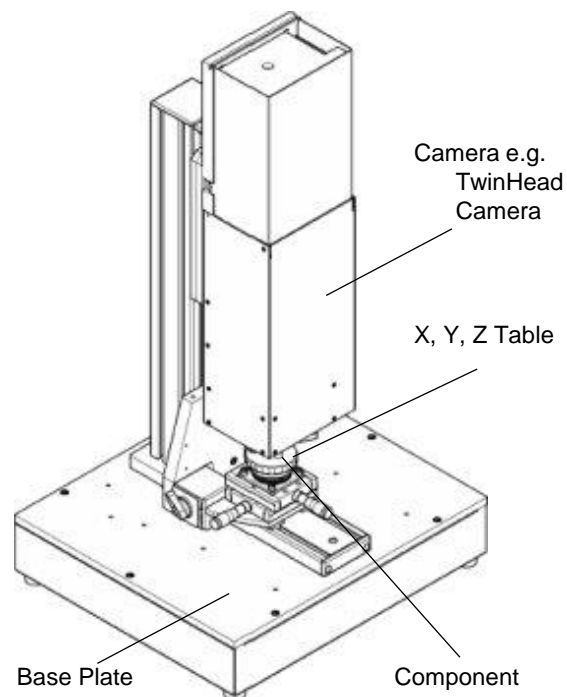
The SIPLACE Vision Teach Station creates descriptions of components offline with the same digital camera and software that are installed in the machine. The SIPLACE vision software supports the description of the package shape based on an image of the actual component. With the auto-learn function, all that's left for the user to do is to define the component type and make the image area that contains the connectors.

The SIPLACE Vision Teach Station automatically analyzes all relevant component data – with a BGA, this would include the package dimensions, the number of solder balls along with their size, arrangement and pitch.

When done, the system transfers the new record to the SIPLACE Pro database for permanent storage. With the SIPLACE Vision Teach Station, the entire process often takes less than a minute. SIPLACE Pro can immediately use the new record for its placement program and reliably identifies the new component during the placement process. And since the new component is specified at an external teach station, there is no production interruption.

The SIPLACE Vision Teach Station includes:

- Camera
- X, Y, Z tables
- Prepared computer (including monitor)
- Software (SIPLACE PRO and SIPLACE Vision)
- Focus height calibration tool
- Documentation



SIPLACE Vision Teach Station is compatible with the following cameras:

Camera type	23	25	28	30	33	36	41
Min. comp. size [mm]	0.4 x 0.2	0.6 x 0.3	1.0 x 0.5	0.4 x 0.2	1.0 x 0.5	1.6 x 0.8	0.12 x 0.12
Max. comp. size [mm]	6 x 6	16 x 16	18.7 x 18.7	27 x 27	55 x 45	32 x 32	6 x 6
Illumination level	5	6	4	5	6	6	5

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The information in this specification consists only of general descriptions and / or performance features, which is not contractually binding. Any specific performance features / capabilities will only be binding if contractually agreed. Subject to changes without notice.

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