YAMAHA Recognition Simulator
YRS
YAMAHA Recognition Simulator

SMT CAM system
(made by Pioneer FA)
Exclusively for the linked SMT Assembling Management Software
## PC-V

- PC-V is a SMT CAM system to provide skill-free, quick and secure support to production start-up which requires a large amount of time and careful data preparation.
- Alternate simulation using component shape data + PCB coordinates image data for trial mounting using actual component + PCB + double faced sticky tape (virtual sticky tape evaluation).
- Supports YAMAHA SMT line with Y.FacT, YGOS and YVOSX linked.

Skill-free
Quick
Secure

PC-V
MANUFACTURED BY
Pioneer sound.vision.soul

PC-V

Y.FacT
YGOS
YVOSX

SMT Assembling Management Software

Example of YAMAHA SMT line

Prepares component information in 3 steps.

STEP 1 — Measuring the component size with exclusive camera

Takes pictures of components using a special camera unit and measures necessary shape data automatically. Manual operation is also available.
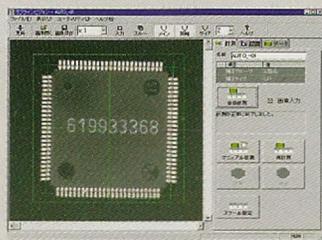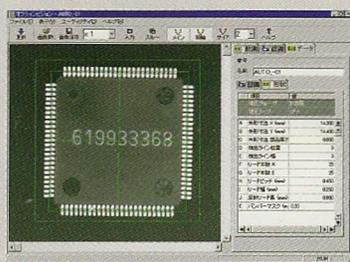
Data to be measured

Component data
- Number of leads/balls
- Lead/ball pitch
- External dimensions
  Others

Recognition parameter
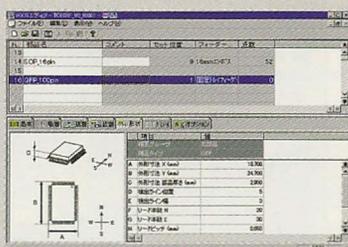- Lighting condition
- component threshold value

STEP 2 — Setting parameters

Component recognition parameters are set automatically. Manual operation is also available.
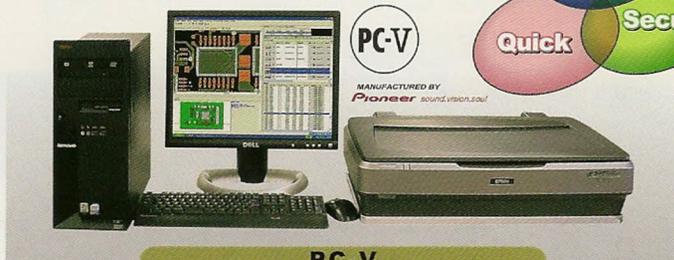
STEP 3 — Setting component information

Component recognition parameters and shape data created by YRS can be utilized to prepare component information.
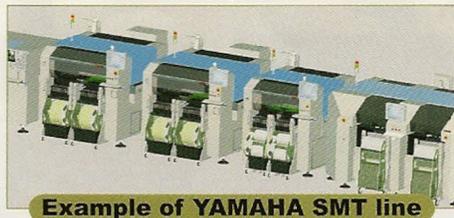
Component information to be made
- Basic data
- Optional data
- Pick and mount data
- Dumping data & tray data
- Recognition data
- Shape data

Feature 1 — High performance data conversion

High performance converter eliminates conversion escape and excess components.

Feature 2 — Preparing component shape data

Component shape data created using highly accurate scanner image.

Feature 3 — Virtual sticky tape evaluation

Virtual mounting simulation function enables pre-check for the production start-up easily and quickly.

Feature 4 — High-speed, highly accurate automatic teaching

Automatic teaching at very high speed of 10 seconds for 1,000 points Highly accurate teaching of +/-30μm (3σ).