

Unveiled new visualization tool to notice and analyze in production line.

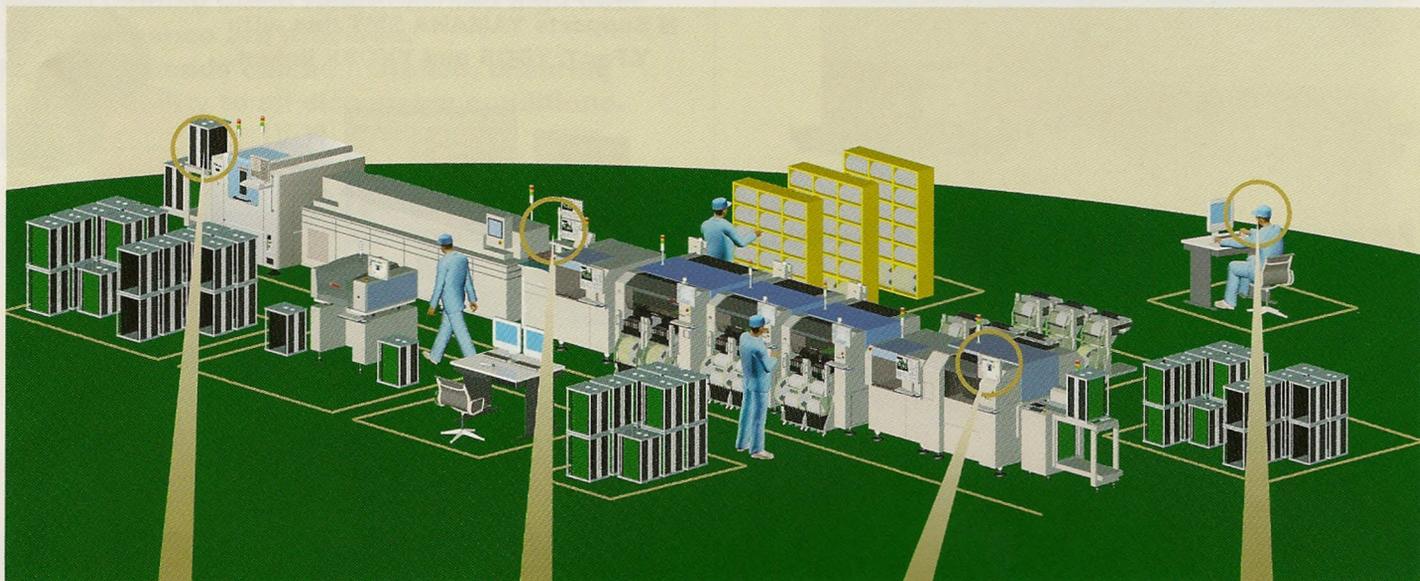
# QA option

**BEFORE** ▶

Inspection result appears only after the production. Therefore you can only guess the reason but can not confirm your guess.

**AFTER** ▶

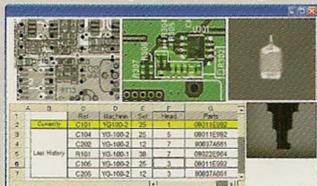
Relation between result and reason appears during the production. Therefore you can detect the real reason and make an action, then you'll get the result.



**Post-reflow, visible**

Realtime

- Variation of products
- Change point of product quality
- Relationship with the state before reflow
- Relationship with the state immediately after printing



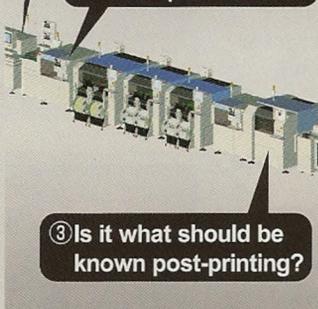
**Known because**

Realtime

① that there is a change point

② Is it what should be known pre-reflow?

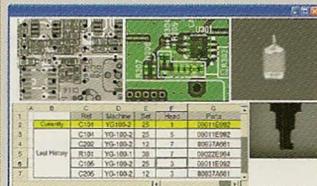
③ Is it what should be known post-printing?



**Post-mounting, visible**

Realtime

- Variation of mounted state
- Change point of mounted state
- Relationship with the component supply operation
- Relationship with feeder, nozzle



**Known because**

Realtime

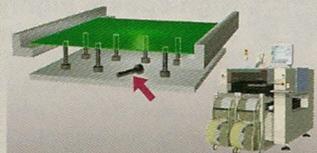
- Trouble in the feeder, nozzle



- Trouble in component supply operation



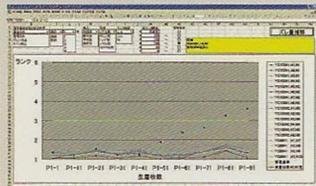
- Trouble in the PCB fixed state



**Post-printing, visible**

Realtime

- Variation of printed volume
- Change point of printed volume
- Relationship with solder supply operation
- Relationship with PCB lot



**Known because**

Realtime

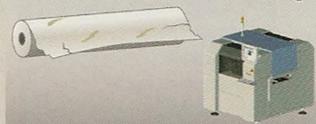
- Variation of solder supply operation



- Cut dust of PCB



- Trouble in automatic cleaning



**Separated location, visible**

Realtime

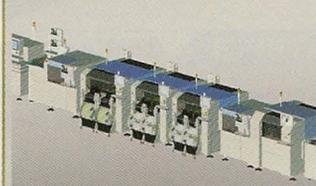
- Visible even at the desk
- Alarm at the cause lying equipment
- Alarm mail transmitted to the leader's cellular phone



**Known because**

Realtime

- Is the line normal?



- Is operation going on at the site?

